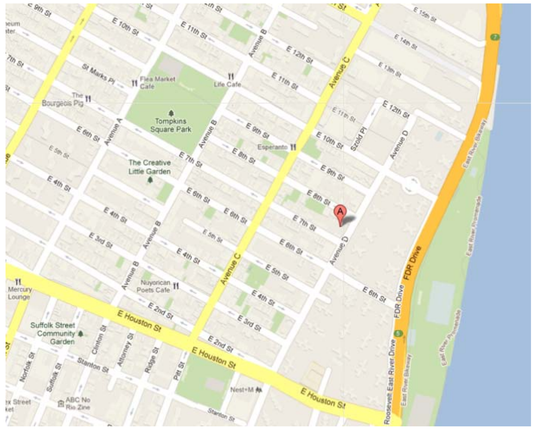
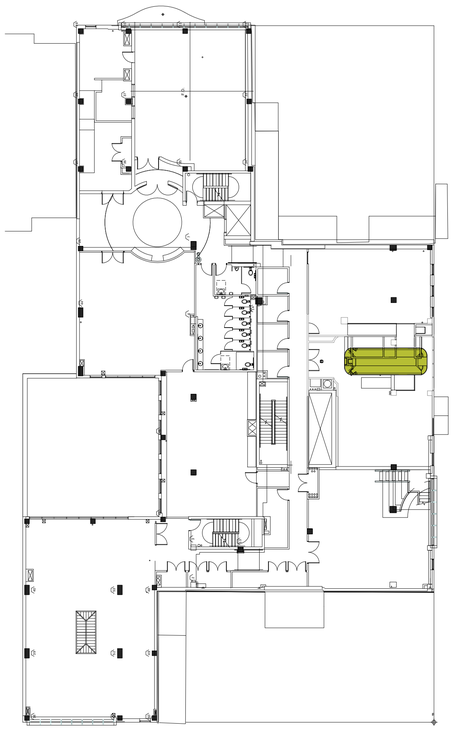
Airstream Pod Lab

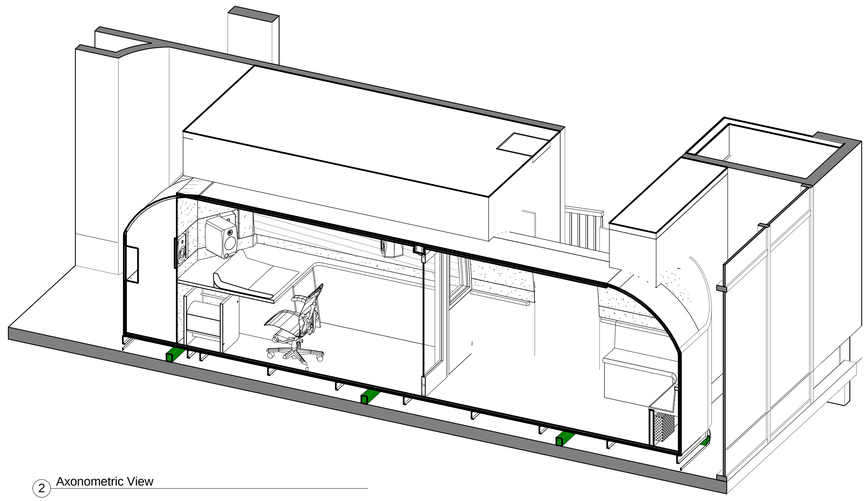
101 Avenue D
New York, NY 10009



Location Plan



1 Second Floor Plan - Airstream Location
1" = 20'-0"



2 Axonometric View

DRAWING LIST

A0.1	Cover Sheet
A1.1	Airstream Floor Plan
A2.1	Sections
A3.1	Details
E1.1	Power Accommodation Plan
E1.2	Empty AV Raceway Plan
M1.1	Mechanical Notes
M1.2	Mechanical Accommodation Plan

DATE No. DESCRIPTION

REVISIONS

CONSULTANTS:

REVIEW
NOT FOR
CONSTRUCTION

WSDG
Walters-Storyk Design Group, Inc.
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Airstream Pod Lab

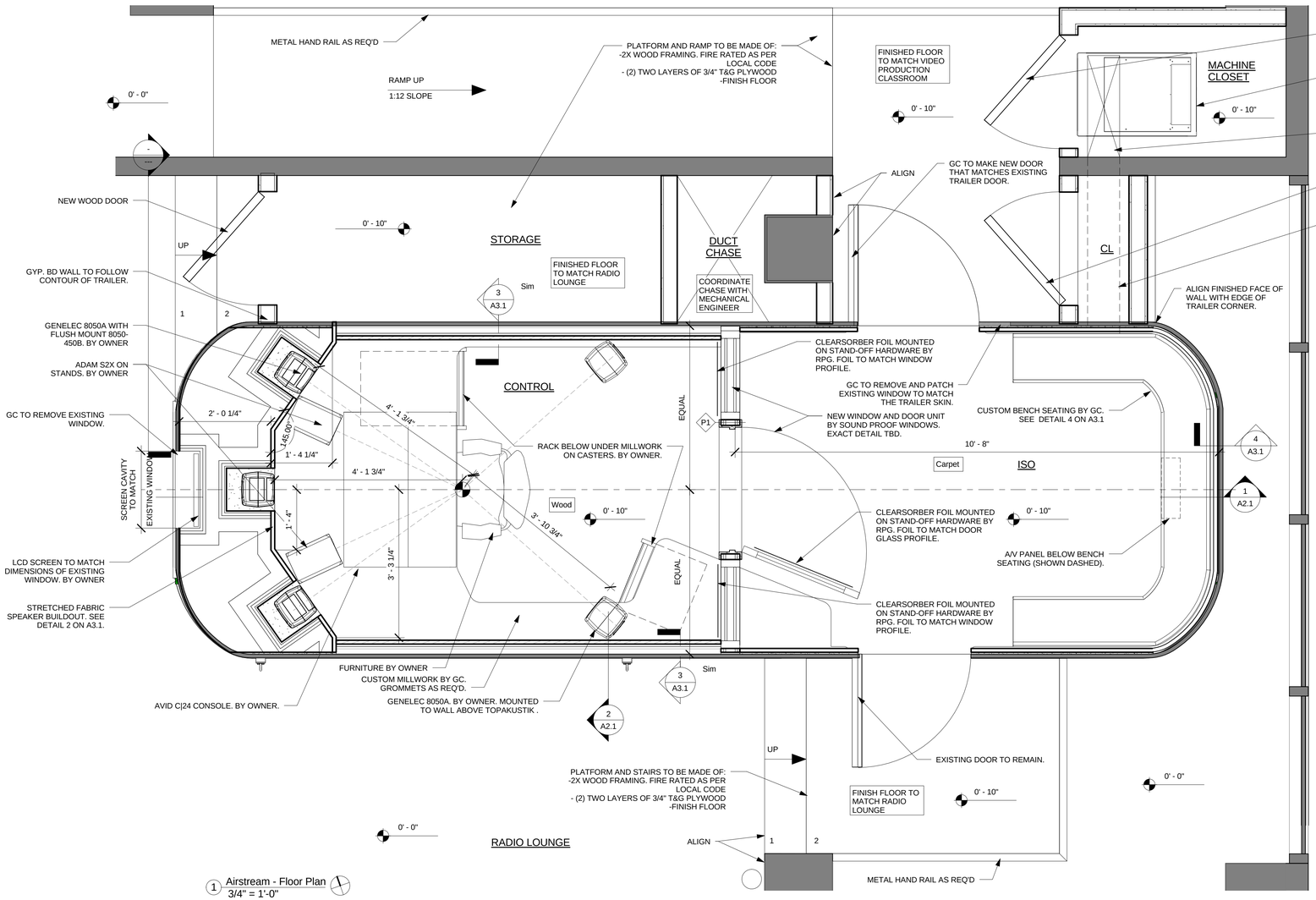
101 Avenue D
New York, NY 10009

DATE: 04/10/2012
SCALE: 1" = 20'-0"
DRAWN BY: JAM

Cover Sheet

95% Construction Documents

A0.1



1 Airstream - Floor Plan
3/4" = 1'-0"

NOTES:
1. GC TO REMOVE ALL WINDOWS ON NORTH SIDE OF TRAILER AND PATCH OPENING TO MATCH EXISTING TRAILER SKIN.
2. GC TO COORDINATE WITH OWNER WHICH WINDOWS ARE TO REMAIN ON THE SOUTH SIDE OF THE TRAILER.
3. WEST WINDOW (FRONT OF CONTROL) TO BE REMOVED AND REPLACED WITH LCD SCREEN. SCREEN PROVIDED BY OWNER AND INSTALLED BY GC.
4. EAST WINDOW (STREET SIDE) TO REMAIN. GC TO COORDINATE OPENING IN STRETCHED FABRIC TREATMENT WITH EXISTING WINDOW.
5. GC TO NEATLY CUT NEW ADA DOOR ON NORTH SIDE OF TRAILER AND REUSE EXISTING METAL AS THE DOOR PANEL.
6. HINGE SIDE OF EXISTING AND NEW ADA DOOR TO ALIGN.
7. GC TO CONFIRM FINAL HEIGHT OF AIRSTREAM FLOOR BEFORE SETTING HEIGHT OF RAMP AND PLATFORM.
8. UNLESS OTHERWISE NOTED, ALL PARTITIONS ARE 3-5/8" MTL STUD WITH (1) ONE LAYER OF 5/8" GYP. BD EACH SIDE. SEE 1 ON A3.1 FOR SIMILAR DETAIL.
9. CONTROL SYMMETRICAL AROUND ROOM CENTERLINE.
10. APPLIED TREATMENTS TO FOLLOW AIRSTREAM AS MUCH AS POSSIBLE.
11. LIGHTING BY OTHERS.
12. SPRINKLERS AS REQ'D.

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Airstream Floor Plan

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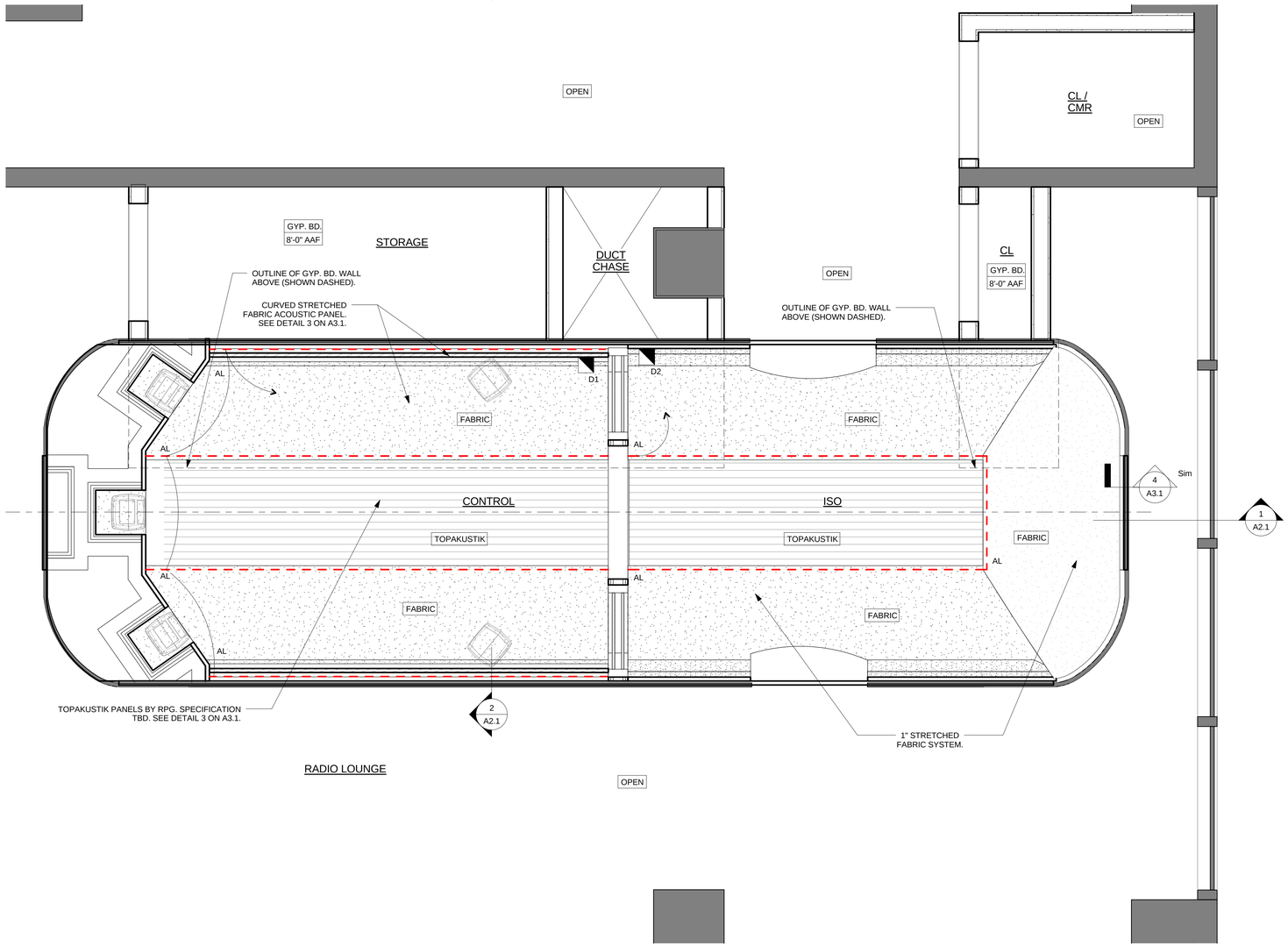
A1.1



1 Airstream Reflected Ceiling Plan
3/4" = 1'-0"

REFLECTED CEILING PLAN NOTES:

NOTES:
1. CONTROL SYMMETRICAL AROUND ROOM CENTERLINE.
2. APPLIED TREATMENTS TO FOLLOW AIRSTREAM AS MUCH AS POSSIBLE.
3. LIGHTING BY OTHERS.

LIGHTING LEGEND

AL — ACCENT LIGHT - LED

LAMP(S): LED (INCLUDED)
MANUF: ALKCO
CAT NO.: ARIS-21-301-120-PRL-HWC-AFC

DX — DIMMER - WALL BOX DIMMER - PRESET NOVA T SERIES BY LUTRON (LOW VOLTAGE - LV). MAXIMUM OF TWO DIMMERS MAY BE INSTALLED IN SAME BACKBOX. DIMMER TO BE COMPATIBLE WITH LIGHTING EQUIPMENT THAT IT CONTROLS. I.E. MAGNETIC TRANSFORMERS, INCANDESCENT, FLUORESCENT, OR ELECTRONIC TRANSFORMER. DIMMERS TO BE RATED AT 100 WATTS UNLESS INDICATED OTHERWISE.

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Airstream Reflected Celing Plan

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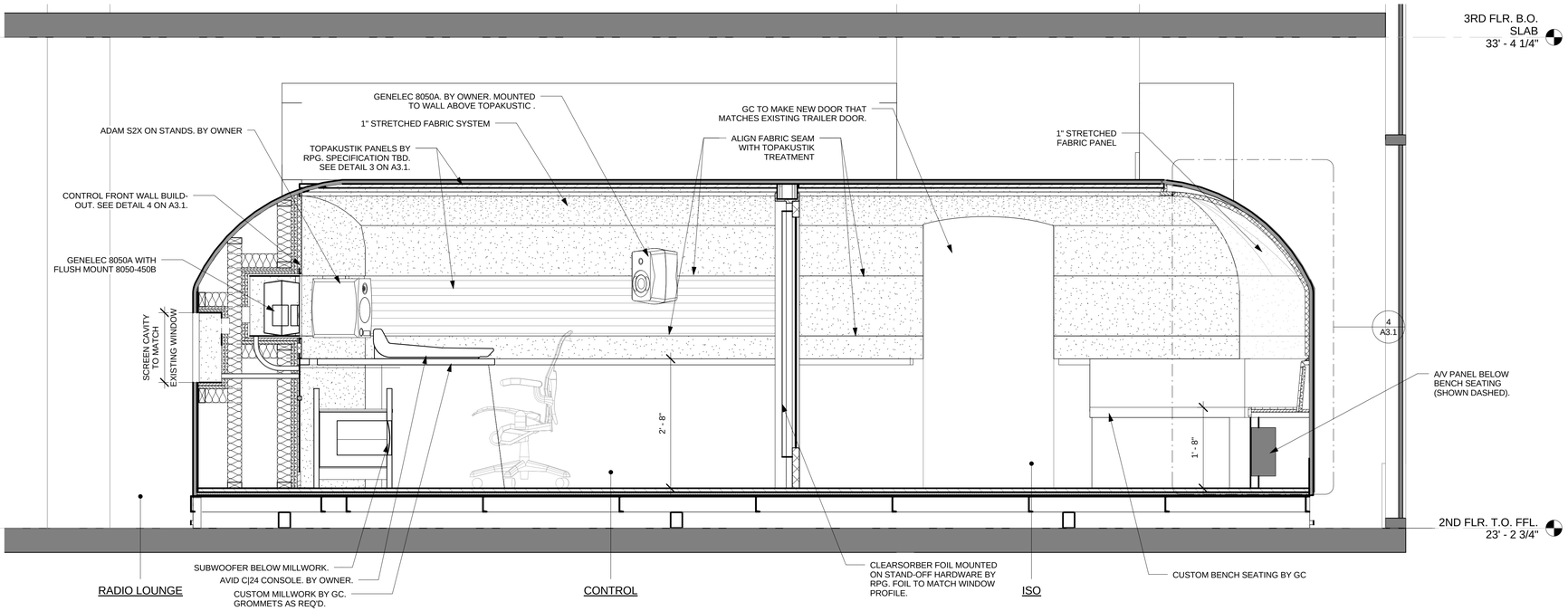
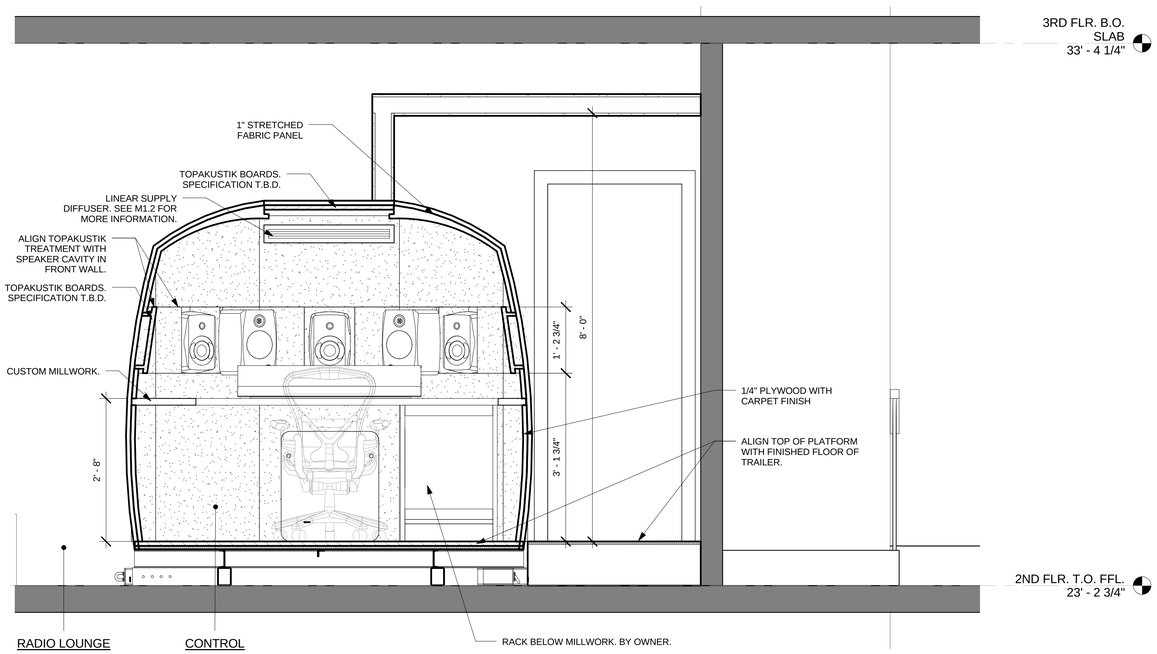
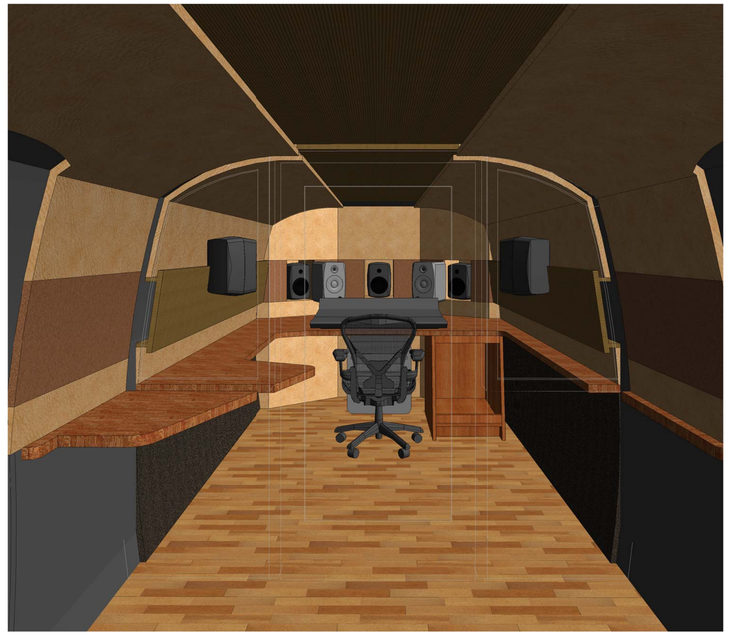
A1.2



1 Section @ Control & Iso (Looking North)
3/4" = 1'-0"



2 Section @ Control & Lounge (Looking West)
3/4" = 1'-0"



3 3D View - Control Front

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DATE: 04/10/2012
SCALE: 3/4" = 1'-0"
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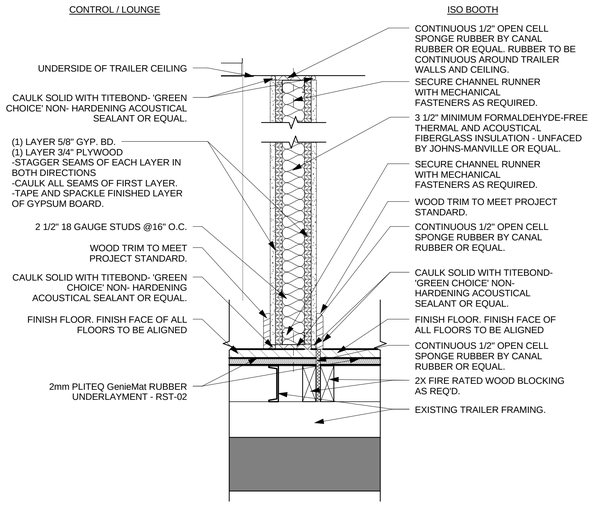
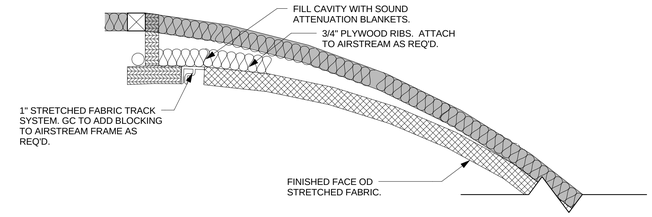
Sections

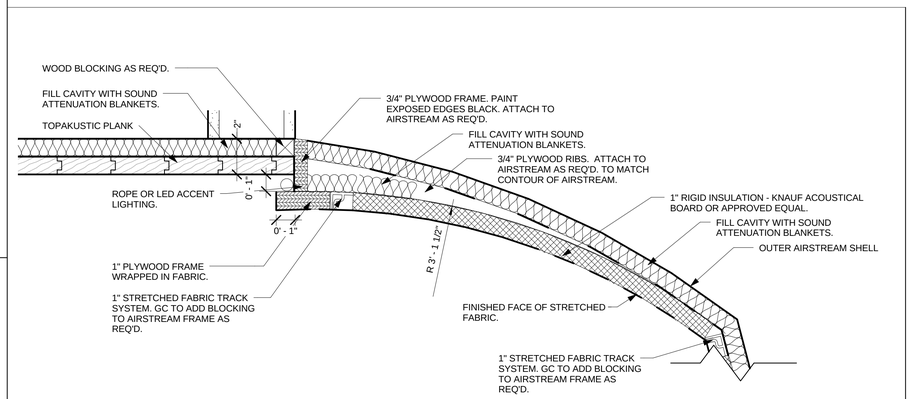
95% Construction Documents

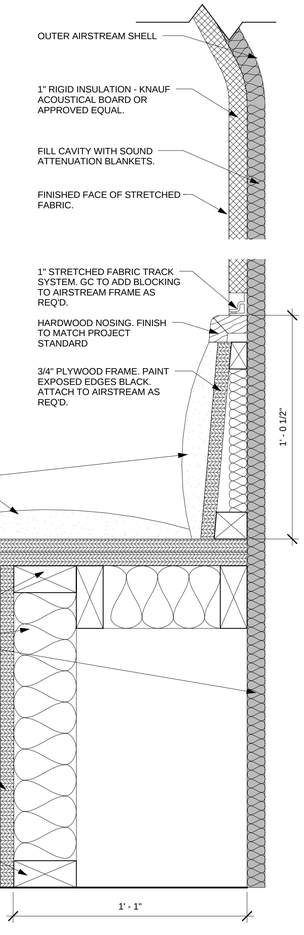
A2.1



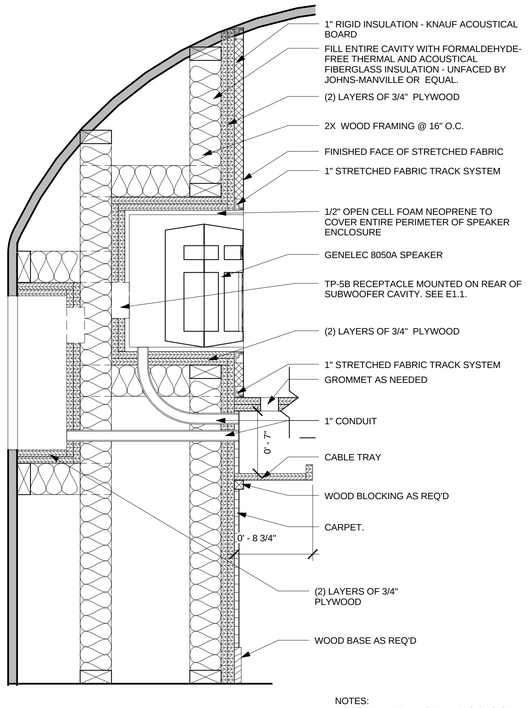
1 Interior Partition Type
1 1/2" = 1'-0"







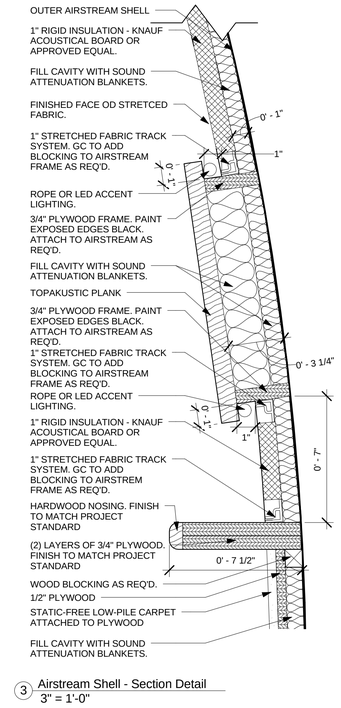
4 Iso - Wall Section Detail
3" = 1'-0"



NOTES:
1.COORDINATE EXACT DIMENSIONS OF SCREEN CAVITY WITH EXISTING WINDOW.

2. COORDINATE EXACT DIMENSIONS OF SPEAKER CAVITIES WITH THE AV INSTALLER

2 Control Front Wall - Section Detail
1 1/2" = 1'-0"



3 Airstream Shell - Section Detail
3" = 1'-0"

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Details

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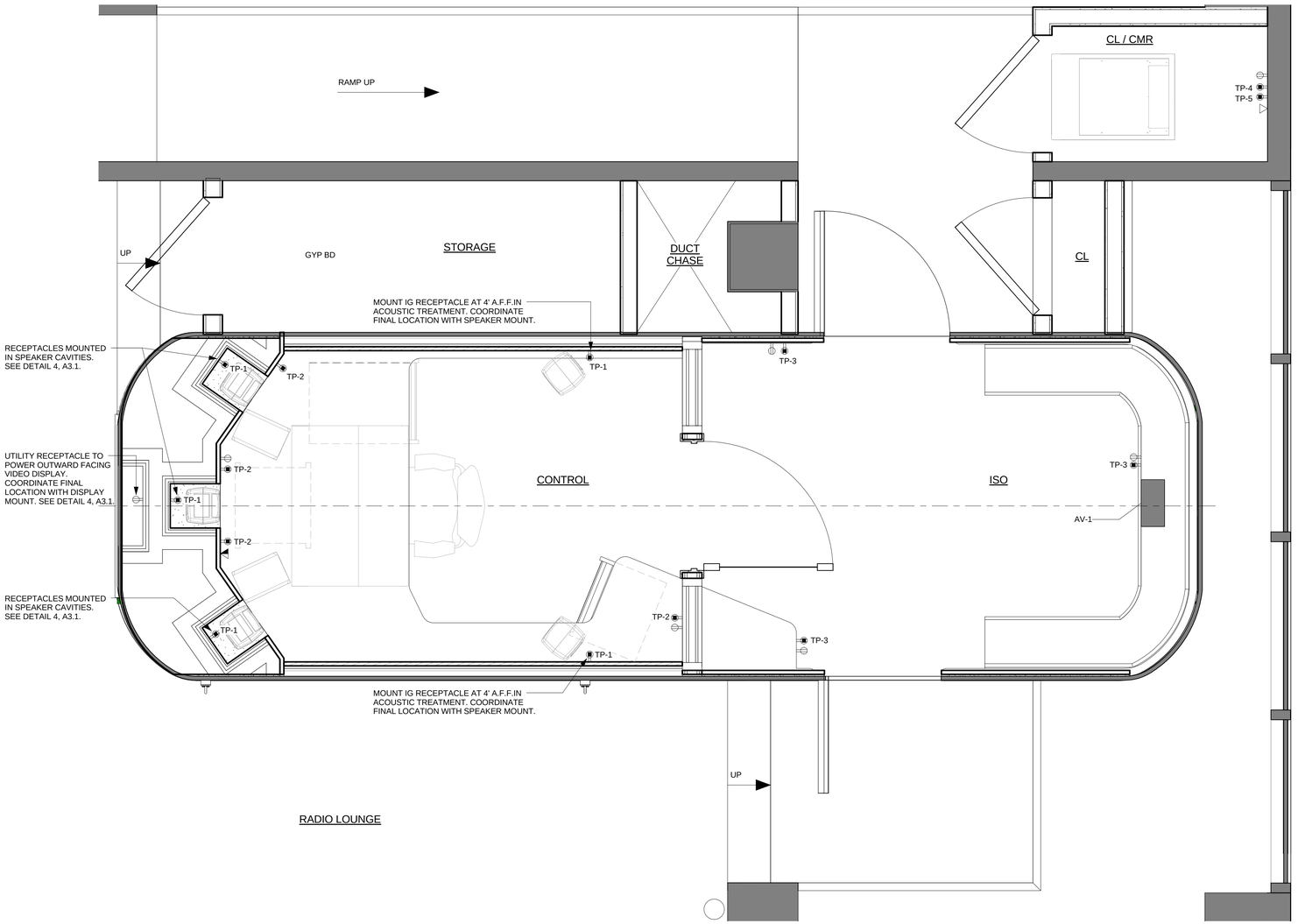
A3.1



1 Airstream - Power Accommodation Plan
3/4" = 1'-0"

POWER ACCOMMODATION NOTES

A. ELECTRICAL EQUIPMENT

1. ALL DUPLEX RECEPTACLES THAT ARE DEDICATED TO AUDIO OR VIDEO EQUIPMENT WILL BE OF THE ISOLATED GROUND DESIGN. THESE RECEPTACLES SHALL BE ORANGE IN COLOR OR HAVE A LOGO THAT IDENTIFIES THEIR USE FOR TECHNICAL EQUIPMENT ONLY. THESE RECEPTACLES SHALL BE RATED AT 20 AMPERES, 125 VOLTS, 3 WIRE, 3 POLE. THE GROUND OF THESE RECEPTACLES SHALL NOT BE EXTENDED TO THE METAL BOX IN WHICH THEY ARE INSTALLED.

2. ALL BRANCH CIRCUITS THAT POWER ISOLATED GROUND RECEPTACLES SHALL CONSIST OF A NEUTRAL, PHASE, AND GREEN ISOLATED GROUND CONDUCTOR. GROUND CONDUCTOR SHALL BE SAME SIZE AS NEUTRAL. THESE BRANCH CIRCUITS SHALL BE KNOWN AS TECHNICAL POWER BRANCH CIRCUITS. ALL CONDUCTORS SHALL BE COPPER, #12AWG, MINIMUM, WITH THHN-THWN INSULATION.

3. TECHNICAL POWER BRANCH CIRCUITS SHALL BE DERIVED FROM A PANELBOARD THAT IS EQUIPPED WITH AN ISOLATED GROUND BUS. THESE PANELS SHALL BE CONFIGURED FOR 120 VOLT, 2 WIRE DESIGN WITH ISOLATED GROUND BUS. ISOLATED GROUND BUS TO BE SAME SIZE AS NEUTRAL BUS.

4. LIGHTING EQUIPMENT AND GENERAL PURPOSE RECEPTACLES FOR ORDINARY APPLIANCES AND GENERAL USAGE SHALL BE DERIVED FROM A STANDARD LIGHTING AND APPLIANCE PANELBOARD. CONFIGURATION OF THESE PANELBOARD(S) SHALL BE COMPATIBLE WITH THE UTILIZATION VOLTAGE THAT IS USED THROUGHOUT THE BUILDING.

5. WHEN TECHNICAL POWER BRANCH CIRCUITS ARE OF THE CABLE ASSEMBLY DESIGN THEY SHALL EMPLOY HOSPITAL GRADE BX THAT CONTAINS A DEDICATED GROUND CONDUCTOR.

6. TECHNICAL POWER BRANCH CIRCUIT CONDUCTORS MAY BE GROUPED TOGETHER IN A COMMON METAL RACEWAY PROVIDED THAT THEY ARE DERATED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

7. THE SOURCE OF POWER FOR THE PANELS THAT ARE DEDICATED TO TECHNICAL EQUIPMENT SHALL BE DERIVED FROM THE SECONDARY OF A STEPDOWN OR ONE-TO-ONE SINGLE PHASE TRANSFORMER. THIS SHALL SERVE TO ELECTRICALLY ISOLATE THE TECHNICAL POWER FROM THE BUILDING POWER. THIS TRANSFORMER IS TO BE OF THE AIR-COOLED, VENTILATED, HARMONIC MITIGATING DESIGN WITH AN ISOLATION SHIELDED BETWEEN PRIMARY AND SECONDARY WINDINGS AND A +30 DEGREE PHASE SHIFT. TRANSFORMER SHALL BE EQUIPPED WITH SPRING ISOLATORS WHETHER FLOOR OR TRAPEZE MOUNTED.

8. TECHNICAL PANEL SHALL BE EQUIPPED WITH SURGE SUPRESSION.

9. UNLESS OTHERWISE INDICATED, WALL MOUNTED RECEPTACLES SHALL BE MOUNTED AT 12" A.F.F. REFERENCE FROM CENTER OF JUNCTION BOX.

B. GROUNDING

1. THERE WILL BE TWO GROUNDING SYSTEMS WITHIN THE AUDIO / VIDEO ENVIRONMENT.
THE FIRST METHOD OF GROUNDING IS OF THE TRADITIONAL NATURE CONSISTING OF A NETWORK OF METAL ENCLOSURES, BACKBOXES, RACEWAYS, ETC. THAT ARE MECHANICALLY TIED TOGETHER TO FORM A PATH FOR FAULT CURRENT FROM EQUIPMENT OR DAMAGED WIRING. THIS WILL BE REFERRED TO AS THE " BUILDING GROUND SYSTEM" or "DIRTY POWER"
THE SECOND METHOD OF GROUNDING INCORPORATES A DEDICATED GROUND CONDUCTOR THAT IS ISOLATED FROM THE NETWORK OF THE BUILDING SYSTEM GROUND. THIS IS REFRRED AS "TECHNICAL POWER". THE INTENT IS TO DEVELOP A CLEAN GROUND FOR SENSITIVE ELECTRONIC EQUIPMENT THAT IS NOT SUSCEPTIBLE TO THE NOISE THAT MAY RESIDE ON THE BUILDING SYSTEM GROUND. THIS IS THE SYSTEM OF GROUNDING THAT IS TO BE EMPLOYED FOR THE AUDIO / VIDEO EQUIPMENT. IT SHOULD BE UNDERSTOOD THAT THE CONSTRUCTION TECHNIQUES OF THE CORE BUILDING SYSTEM GROUND WILL STILL BE EMPLOYED WITH RESPECT TO INSTALLATION OF FEEDERS, BRANCH CIRCUITS, METAL ENCLOSURES, AND PANELS THAT ARE USED FOR TO THE TECHNICAL POWER REQUIREMENTS OF THE AUDIO / VIDEO EQUIPMENT.

2. PANELS FOR TECHNICAL POWER ARE TO BE FURNISHED WITH A GROUND BUS THAT IS THE SAME SIZE AS THE NEUTRAL BUS AND ALSO BE INSULATED FROM THE METAL ENCLOSURE OF THE PANEL. THE GROUND BUS SHALL HAVE THE SAME NUMBER OF TERMINALS AS THE NEUTRAL BUS AND INCOMING LUG SHALL BE SAME SIZE AS NEUTRAL LUG. NO OTHER TYPE OF RECEPTACLES OR LIGHTING EQUIPMENT SHALL BE POWERED FROM THIS PANEL.

3. EACH BRANCH CIRCUIT EMANATING FROM A PANEL THAT SERVES TECHNICAL EQUIPMENT SHALL HAVE AN ISOLATED GROUND CONDUCTOR ALONG WITH A PHASE AND NEUTRAL CONDUCTOR. THE ISOLATED GROUND CONDUCTOR SHALL BE CONNECTED TO THE ISOLATED GROUND BUS IN THE PANEL AND TO THE GROUND SCREW OF THE RESPECTIVE ISOLATED GROUND RECEPTACLE. NO GROUND TAP SHALL BE EXTENDED FROM THIS SCREW TO THE METAL BACKBOX OF THE RECEPTACLE. THIS WILL DEFEAT THE INTEGRITY OF THIS GROUNDING SYSTEM.

4. THE ISOLATED GROUND CONDUCTOR THAT ACCOMPANIES THE PANEL FEEDER SHALL NOT BE SMALLER IN SIZE THAN THE NEUTRAL. IT SHALL BE CONNECTED TO THE ISOLATED GROUND BUS IN THE TECHNICAL PANEL AND TO THE GROUND BUS IN THE EQUIPMENT FROM WHICH TECHNICAL POWER IS TO BE DERIVED. A SEPARATE ISOLATED GROUND WIRE SHALL BE SUPPLIED TO THE CONSOLE IN EACH CONTROL ROOM FROM THE MAIN ISOLATING GROUND POINT.

5. THE ISOLATED GROUND CONDUCTORS SHALL BE THE SAME COLOR THROUGHOUT AND DIFFERENT FROM THE BUILDING GROUND CONDUCTOR. I.E. GREEN WITH YELLOW STRIPE.

POWER ACCOMMODATION LEGEND

- WALL MOUNTED ISOLATED GROUND DUPLEX RECEPTACLE. RUN INDIVIDUAL INSULATED 12AWG GROUND WIRE FOR EACH CIRCUIT BACK TO ISOLATED GROUND DISTRIBUTION PANEL.
  - TP- #
    - NUMBERS ADJACENT TO SYMBOL DENOTES CIRCUIT NUMBER.
    - LETTERS 'TP' ADJACENT TO SYMBOL DENOTES THE OUTLET IS TO BE ON THE SUB-PANEL DEDICATED TO AUDIO / VIDEO EQUIPMENT.
- WALL MOUNTED ISOLATED GROUND QUAD RECEPTACLE. RUN INDIVIDUAL INSULATED 12AWG GROUND WIRE FOR EACH CIRCUIT BACK TO ISOLATED GROUND DISTRIBUTION PANEL.
  - TP- #
    - NUMBERS ADJACENT TO SYMBOL DENOTES CIRCUIT NUMBER.
    - LETTERS 'TP' ADJACENT TO SYMBOL DENOTES THE OUTLET IS TO BE ON THE SUB-PANEL DEDICATED TO AUDIO / VIDEO EQUIPMENT.
- FLOOR MOUNTED ISOLATED GROUND DUPLEX RECEPTACLE. RUN INDIVIDUAL INSULATED 12AWG GROUND WIRE FOR EACH CIRCUIT BACK TO ISOLATED GROUND DISTRIBUTION PANEL.
  - TP- #
    - NUMBERS ADJACENT TO SYMBOL DENOTES CIRCUIT NUMBER.
    - LETTERS 'TP' ADJACENT TO SYMBOL DENOTES THE OUTLET IS TO BE ON THE SUB-PANEL DEDICATED TO AUDIO / VIDEO EQUIPMENT.
- FLOOR MOUNTED ISOLATED GROUND QUAD RECEPTACLE. RUN INDIVIDUAL INSULATED 12AWG GROUND WIRE FOR EACH CIRCUIT BACK TO ISOLATED GROUND DISTRIBUTION PANEL.
  - TP- #
    - NUMBERS ADJACENT TO SYMBOL DENOTES CIRCUIT NUMBER.
    - LETTERS 'TP' ADJACENT TO SYMBOL DENOTES THE OUTLET IS TO BE ON THE SUB-PANEL DEDICATED TO AUDIO / VIDEO EQUIPMENT.
- CEILING MOUNTED ISOLATED GROUND DUPLEX RECEPTACLE. RUN INDIVIDUAL INSULATED 12AWG GROUND WIRE FOR EACH CIRCUIT BACK TO ISOLATED GROUND DISTRIBUTION PANEL.
  - TP- #
    - NUMBERS ADJACENT TO SYMBOL DENOTES CIRCUIT NUMBER.
    - LETTERS 'TP' ADJACENT TO SYMBOL DENOTES THE OUTLET IS TO BE ON THE SUB-PANEL DEDICATED TO AUDIO / VIDEO EQUIPMENT.
- DUPLEX RECEPTACLE; 20 A, 125 VOLT, 3 POLE, 2 WIRE GROUNDED.
- QUAD RECEPTACLE; 20 A, 125 VOLT, 3 POLE, 2 WIRE GROUNDED.
- DUPLEX CEILING MOUNTED RECEPTACLE; 20 A, 125 VOLT, 3 POLE, 2 WIRE GROUNDED.
- DATA RECEPTACLE
- DATA / TEL RECEPTACLE

ALL RECEPTACLES TO BE MOUNTED AT 1' A.F.F. TO J-BOX CENTER UNLESS OTHERWISE NOTED.

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SCALE:	As indicated
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Power Accommodation Plan

E1.1

95% Construction Documents

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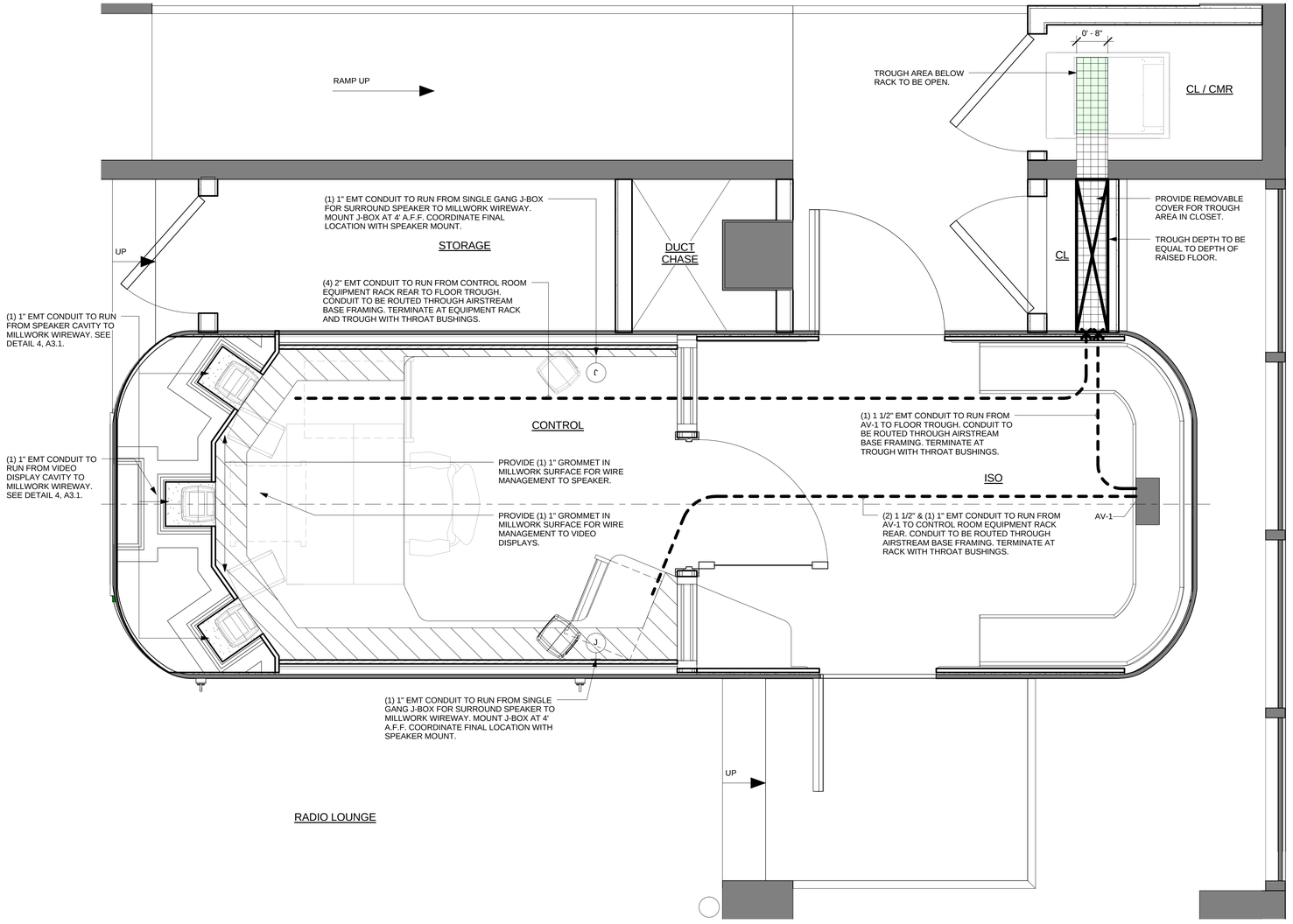

1 Airstream - Empty AV Raceway Plan
3/4" = 1'-0"

CONDUIT NOTES

1. ALL EMPTY CONDUIT RUNS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC ONLY. ELECTRICAL CONTRACTOR TO INSTALL CONDUITS IN THE SHORTEST, MOST DIRECT RUNS POSSIBLE. ELECTRICAL CONTRACTOR TO MINIMIZE THE NUMBER OF BENDS IN CONDUIT RUNS - NO CONDUIT RUN IS TO HAVE MORE THAN 270° OF BEND OR 75 FT. OF LENGTH BETWEEN PULLBOX LOCATIONS.

2. REFER TO ARCHITECTURAL DRAWINGS FOR THE EXTENT OF ACOUSTIC WALL CONSTRUCTION THROUGHOUT BUILDING. CONTRACTOR TO COORDINATE INSTALLATION OF CONDUIT SYSTEM WITH ALL OTHER MECHANICAL SYSTEMS (DUCTWORK, SPRINKLER, ETC.).

3. ALL RACEWAYS FOR AUDIO AND VIDEO CABLES SHALL BE RUN CONCEALED FROM POINT TO POINT. RACEWAYS SHALL BE CONTINUOUS (NO GAPS) AND EQUIPPED WITH A PULL WIRE. ALL RACEWAYS SHALL BE TAGGED AT EACH END.

4. METAL RACEWAYS RUN WITHIN BUILDING TO BE EMT WITH SET SCREWS FITTINGS. RACEWAYS RUN UNDERGROUND SHALL BE SCHEDULE 80 PVC WITH COLD WELD COUPLINGS.

5. METAL RACEWAYS THAT ARE TERMINATED AT METAL ENCLOSURES SHALL UTILIZE A LOCKNUT ON OUTSIDE AND INSIDE OF ENCLOSURE AND AN INSULATED THROAT BUSHING ON THE INSIDE OF ENCLOSURE. THE ENDS OF METAL RACEWAYS THAT ARE TERMINATED IN A SPEAKER ENCLOSURE, NONMETALLIC FLOOR TROUGH, OR ARCHITECTURAL BUILD-OUT SHALL BE EQUIPPED WITH AN INSULATED THROAT BUSHING.

6. FLEXIBLE METAL RACEWAY (GREENFIELD) MAY NOT BE EMPLOYED AT ANY TIME.

7. HALF MOON CONDUIT STRAPS SHALL BE USED WHEN RACEWAYS ARE AFFIXED TO WALLS OR FLOOR CONSTRUCTION.

8. ALL CHANGES IN DIRECTION OF EMPTY CONDUITS SHALL BE EFFECTED WITH LARGE SWEEP FACTOR ELBOWS OR GENTLE FIELD BENDS.

9. DO NOT RUN 120 VOLTS RACEWAYS PARALLEL TO EMPTY CONDUIT FOR TELEPHONE, AUDIO / VIDEO, OR DATA CABLES. IF PARALLEL RUNS ARE UNAVOIDABLE, THE TELEPHONE, AUDIO / VIDEO, DATA CABLES OR RACEWAYS SHALL BE NO CLOSER THAN 18 INCHES TO A POWER RACEWAY.

10. BOTH ENDS OF SHORT LENGTHS OF EMPTY CONDUIT OR CONDUIT SLEEVES THAT ARE SET IN WALLS SHALL BE EQUIPPED WITH INSULATED THROAT BUSHINGS.

11. CONTRACTOR SHALL PROVIDE DRAG OR PULL WIRES IN EACH CONDUIT FOR PULLING OF WIRES.

12. EXACT SIZE AND QUANTITY OF CONDUIT TO BE COORDINATED WITH AV INSTALLER. THIS INFORMATION IS INCLUDED FOR DIAGRAMMATIC PURPOSES ONLY.

CONDUIT LEGEND

- DIAGRAMMATIC EMPTY CONDUIT RUN (ABOVE ACOUSTIC LID). SEE NOTES FOR MORE INFORMATION.
- INDICATES OPEN FLOOR TROUGH IN RAISED FLOOR FRAMING (WIRE MANAGEMENT).
- INDICATES OPEN TROUGH AREA.
- INDICATES MILLWORK WIREWAY (WIRE MANAGEMENT). SEE DETAIL 4, A3.1.
- INDICATES REMOVABLE TROUGH COVER.
- J — CEILING MOUNTED JUNCTION BOX.
- J — WALL MOUNTED JUNCTION BOX.
- J — FLOOR MOUNTED JUNCTION BOX.
- CONDUIT PENETRATION OF ACOUSTIC BOUNDARY.
- INDICATES BACKBOX FOR MIC PANELS - FLUSH MOUNTED IN WALL TREATMENTS A SHOWN ON PLAN.
- AV-X — JUNCTION BOX NUMBER

AV Backbox Schedule

Panel	Location	Type	Manufacturer	Model	Mounting Height	Comments
AV-1	ISO	12" W x 12" H x 6" D	Hoffman	ASG12x12x6	0' - 9"	A.F.F. TO BOX CENTER

DATE No. DESCRIPTION

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Lower East Side Girls Club

Airstream Pod Lab

101 Avenue D
New York, NY 10009

DATE: 04/10/2012
SCALE: As indicated
DRAWN BY: CRF

Empty AV Raceway Plan

E1.2

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I. HVAC

A. GENERAL NOTES

1. ALL MECHANICAL WORK SHALL BE GUARANTEED TO BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE AND SHALL MEET ALL LOCAL AND STATE CODES. ALL DEFECTS WITHINHIS PERIOD SHALL BE MADE GOOD BY CONTRACTOR FREE FROM COST TO OWNER.

2. ANY APPARATUS, APPLIANCE, MATERIAL, WORK OR INCIDENTAL ACCESSORIES OR MINOR DETAILS NOT SHOWN BUT NECESSARY TO MAKE THE WORK COMPLETE AND PERFECT IN ALL RESPECTS AND READY FOR OPERATION, EVEN IF NOT PARTICULARLY SPECIFIED, SHALL BE PROVIDED BY THE CONTRACTOR WITHOUT ADDITIONAL EXPENSE TO THE OWNER.

3. COORDINATE WITH ALL OTHER TRADES, AS NECESSARY, TO FACILITATE TIMELY COMPLETION AND TO AVOID ANY UNNECESSARY CUTTING AND PATCHING.

4. AIR CONDITIONING EQUIPMENT SHALL BE MOUNTED ON SPRING TYPE VIBRATION ISOLATORS TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE OR DUCT SYSTEM.

5. LOCATE, SELECT, DESIGN AND INSTALL SEISMIC RESTRAINTS FOR ALL MECHANICAL SYSTEMS. INCLUDE RESTRAINTS FOR DUCTWORK, PIPING, AND EQUIPMENT.

6. COMPLY WITH THE REQUIREMENTS OF THE "SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL SYSTEMS" CURRENT EDITION PUBLISHED BY SMACNA, OR MASON.

7. REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL EQUIPMENT SUPPORTS AND ANCHORAGES.

8. ALL AIR DIFFUSION EQUIPMENT SHALL BE THE PRODUCT OF ONE (1) MANUFACTURER.

9. FINISH ON AIR DIFFUSION EQUIPMENT SHALL BE AS APPROVED BY THE ARCHITECT.

10. ALL UNUSED OPENINGS IN DUCTWORK SHALL BE TIGHTLY SEALED.

11. CLEARLY INDICATE IF DUCT SIZE LISTED INDICATES CLEAR INSIDE OR INCLUDES DUCTLINER AND DUCT.

12. ALL PENETRATIONS OF WALLS OR CEILINGS SHALL BE MADE CLEANLY AND CAREFULLY (MAXIMUM 1/8" CLEARANCE AROUND DUCT). PACK SPACE BETWEEN DUCT AND OPENING TIGHTLY WITH APPROVED NON-HARDENING MASTIC.

13. MOUNT THERMOSTATS APPROXIMATELY 4'-6" ABOVE FINISHED FLOOR. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATION. THE LOCAL TEMPERATURE CONTROLS SYSTEM FOR EACH UNIT WILL CONSIST OF LOCAL TEMPERATURE SENSORS WHICH WILL CYCLE THE UNIT COMPRESSOR TO MAINTAIN SETPOINT TEMPERATURE SETTING. CONTROLS FOR THE NEW SYSTEMS WILL BE THE ELECTRIC/ELECTRONIC TYPE. PROGRAMMABLE TIME CLOCK THERMOSTATS WILL BE LOCALLY PROVIDED FOR EACH NEW SYSTEM. REMOTE INTERFACE WITH BUILDING CENTRAL CONTROL SYSTEM IS NOT RECOMMENDED.

14. ALL DUCT WORK SHALL BE SUBSTANTIALLY BUILT WITH APPROVED JOINTS AND SEAMS SMOOTH ON THE INSIDE AND A NEAT FINISH ON THE OUTSIDE. DUCT JOINTS SHALL BE AS NEAR AIRTIGHT AS POSSIBLE WITH LAPS MADE IN THE DIRECTION OF AIR FLOW AND NO FLANGES PROJECTING INTO THE AIR STREAM. DUCTS SHALL BE ADEQUATELY BRACED TO PREVENT VIBRATION AND ADDITIONAL BRACING SHALL BE PROVIDED WHERE NECESSARY (SPECIAL ACOUSTIC CONSTRUCTION SPACES.)

15. ALL CHANGES IN DIRECTION, BOTH HORIZONTAL AND VERTICAL, SHALL BE SHAPED TO PERMIT THE EASIEST POSSIBLE AIR FLOW, USING FULL SIZED BENDS WHEREVER POSSIBLE, OR FIXED DEFLECTORS WHERE FULL RADIUS CURVES CANNOT BE OBTAINED.

16. ACCESS DOORS SHALL BE PROVIDED IN THE DUCTS AND GENERAL CONSTRUCTION WHEREVER REQUIRED FOR ACCESS TO VOLUME DAMPERS OR OTHER CONTROLS.

17. CEILING HEIGHTS INDICATED ON ARCHITECTURAL DRAWINGS MUST BE MAINTAINED. THIS CONTRACTOR MUST RISE AND DROP DUCTWORK/PIPING BETWEEN FRAMING AND UTILITIES AS REQUESTED.

18. ALL DUCTWORK AND PIPING INSULATION AND ADHESIVES SHALL HAVE A FLAME SPREAD RATING NOT EXCEEDING 25 AND WITH SMOKE DEVELOPED RATING NOT HIGHER THAN 50.

19. VIBRATION ISOLATION SHALL BE MADE OF APPROVED MATERIALS NOT EXCEEDING 10" IN LENGTH.

20. ALL CONTROLS AND INTERLOCK WIRING SHALL BE BY MECHANICAL CONTRACTOR. HVAC CONTRACTOR TO PROVIDE ALL NECESSARY CONTROLS WIRING DIAGRAMS.

21. SIZING AND SPECIFICATIONS MUST BE CONFIRMED BY AN HVAC ENGINEER.

22. ALL DUCTWORK SERVING ACOUSTIC SPACES TO HAVE MIN. 1" INTERNAL ACOUSTIC LINING. ALL DUCTS SERVING NON-ACOUSTIC SPACES WILL BE ACOUSTICALLY LINED WITHIN 20 FEET OF A FAN INLET OR OUTLET AND SUPPLY DUCTS WILL BE EXTERNALLY WRAPPED FOR THE REMAINDER OF THE DUCT RUN.

23. AIR SPEEDS IN BRANCH DUCTWORK SERVING ACOUSTIC SPACES NOT TO EXCEED 500 FPM.

24. AIR SPEEDS AT DIFFUSERS IN ACOUSTIC SPACES NOT TO EXCEED 250 FPM.

25. MECHANICAL SYSTEM SERVING THE ACOUSTIC ROOMS TO HAVE HUMIDITY CONTROLS. HUMIDITY FOR ACOUSTIC SPACES INCLUDED THE CMR IS RECOMMENDED TO STAY WITHIN 5% OF 40% RELATIVE HUMIDITY 365 DAYS A YEAR.

26. ALL DUCTWORK PENETRATIONS OF ACOUSTIC WALLS IN TO BE CAULKED GENEROUSLY ON BOTH SIDES OF WALL WITH A NON-HARDENING ACOUSTICAL SEALANT, USG OR EQUAL. WHERE GAPS BETWEEN DUCTWORK AND SURROUNDING GYPSUM BOARD ARE GREATER THAN 1/4" USE 'DUXSEAL' BY J.M. CLIPPER CORP. OR EQUAL.

27. PROVIDE FLEXIBLE CONNECTORS AT ALL CONNECTIONS OF SUPPLY AND RETURN DUCTS TO AIR HANDLERS.

28. ALL AIR HANDLING EQUIPMENT TO BE INSTALLED ON ACOUSTIC ISOLATION SPRINGS.

29. ALL PENETRATIONS OF WALLS BY DUCTWORK IN ACOUSTIC SPACES MAY REQUIRE THE USE OF DUCT SILENCERS TO MAINTAIN THE NC. THIS DEPENDS ON THE AIR HANDLING EQUIPMENT, ETC. DUCT SILENCERS TO BE 'QUIET' DUCT BY IAC OR APPROVED EQUAL.

30. PROVIDE OUTSIDE AIR MOTORIZED DAMPER THAT OPENS AUTOMATICALLY WHEN FAN COMES ON AND CLOSES AUTOMATICALLY WHEN FAN TURNS OFF.

31. PROVIDE SMOKE DETECTORS, LOAD LIMITS, AND STATS AS REQUIRED BY LOCAL BUILDING CODES.

32. PROVIDE AIR FILTER RACK FOR EACH AIR HANDLER.

33. INSULATE CONDENSATE PIPES. CONDENSATE PIPES TO CLOSEST DRAIN WITH AIR GAP.

34. ALL ACOUSTIC SPACES TO BE 24 X 7.

35. CONDENSER WATER PIPING WILL BE INSULATED THROUGHOUT. PIPING MATERIALS WILL TYPE 'L' HARD TEMPER COPPER FOR B BOTH THE MAINS AND RUN OUTS TO THE INDIVIDUAL HEAT PUMP UNITS. EACH UNIT WILL BE VALVED SEPARATELY WITH PRESSURE GAGES, THERMOMETERS, ISOLATING VALVES AND BALANCING VALVES INSTALLED IN PIPING. PIPING SYSTEM WILL BE PROVIDED WITH AIR VENTS AND DRAINAGE VALVES FOR MAINTENANCE OPERATIONS.

36. MATERIALS OF DUCTS SHALL BE GALVANIZED STEEL WITH CAULKED AIR-TIGHT JOINTS. THEIR CONSTRUCTION SHALL COMPLY WITH THE STANDARDS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, ASHRAE AND SMACNA.

37. SHEETMETAL FOR ACOUSTIC SPACES WILL BE SPECIFIED TWO GAGES HEAVIER THAN INDUSTRY STANDARD FOR DUCTS OF THAT SIZE. ALL DUCTWORK LENGTHS WILL BE CROSSBROKEN AND ADDITIONAL STIFFENERS ADDED. SUPPORT SYSTEM FOR DUCTWORK WILL BE PROVIDED TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE.

38. ALL DUCT WORK SHALL BE SUBSTANTIALLY BUILT WITH APPROVED JOINTS AND SEAMS SMOOTH ON THE INSIDE AND A NEAT FINISH ON THE OUTSIDE. JOINTS IN SUPPLY DUCTWORK WITH APPROVED NON-HARDENING MASTIC SEALANT AND DUCT TAPE FOR PERFECT AIR-TIGHTNESS.

39. DUCTWORK SERVING THE FACILITY WILL BE ACOUSTICALLY LINED THROUGHOUT. ACOUSTIC LINING MATERIALS WILL BE GLASS FIBERBOARD WITH MASTIC COATING SUITABLE FOR VELOCITIES UP TO 2000 FPM. WHERE REQUIRED FOR ADDITIONAL ACOUSTIC SEPARATION DUCT SILENCERS WILL BE PROVIDED AT ENTRY AND EXIT POINTS TO EACH OF THE BROADCAST SPACES.

40. ALL SUPPLY AIR AND OUTSIDE AIR DUCTWORK WILL BE EXTERNALLY INSULATED WITH FIBERGLASS INSULATION WITH VAPOR BARRIER.

41. GENERALLY, NON-ACOUSTIC RETURN AIR DUCTWORK, EXHAUST DUCTWORK (TOILET, GENERAL, LAUNDRY, ETC.) WILL NOT BE INSULATED EXCEPT WHERE CONDENSATION IS POSSIBLE.

42. THERE WILL NO RIGID CONNECTION OF DUCTWORK TO FANS OR A/C UNITS. FLEXIBLE DUCT CONNECTORS WILL BE PROVIDED.

43. AIR INLETS AND OUTLETS WILL BE CFM RATED FOR USE AND COORDINATED WITH ARCHITECTURAL REFLECTED CEILING LAYOUTS. FINISH WILL BE AS SELECTED BY ARCHITECT.

44. ACOUSTIC SPACES WILL BE SERVED BY HEAVY DUTY AIR DISTRIBUTION INLETS AND OUTLETS. THE AIR DISTRIBUTION DEVICES WILL BE FIXED PATTERN WITHOUT DAMPERS OR ANY OTHER MOVING PARTS. AIR VELOCITIES WILL RANGE BETWEEN 250 AND 400 FEET PER MINUTE ACROSS THE DEVICE SUBJECT TO SPACE UTILIZATION. AIR VOLUME CONTROLLERS WILL BE LOCATED REMOTELY IN ACCESSIBLE AREAS. PLACEMENT OF AIR DEVICES WILL BE COORDINATED TO CONFORM TO ARCHITECTURAL REFLECTED DRAWINGS AND RELATE TO FURNITURE AND CONSOLE LAYOUTS TO MINIMIZE DRAFTS.

45. MECHANICAL ENGINEER TO PROVIDE FRESH AIR AS REQUIRED.

B. FIRE DAMPER NOTES (PROVIDE FIRE DAMPERS IN ALL LOCATIONS WHERE REQUIRED)

1. ALL FIRE DAMPERS SHALL BE RATED TO MAINTAIN THE RATING OF THE FIRE SEPARATION. THEY SHALL BE APPROVED AND LABELED BY UNDERWRITERS LABORATORIES (UL). INSTALLATION SHALL BE IN ACCORDANCE WITH THIS DRAWING AND NFPA 90-A, LATEST EDITION. DAMPERS SHALL BE SIMILAR AND EQUAL TO TYPE A AS MANUFACTURED BY AIR BALANCE INC.

2. ALL WORK SHALL CONFORM, AS A MINIMUM, WITH ASHRAE AND SMACNA.

3. CONNECTIONS BETWEEN COLLAR AND DUCTWORK SHALL BE BREAKAWAY TYPE SUCH AS "S" SLIP, CRIMP, OR OTHER SLIP TYPE IN ACCORDANCE WITH SMACNA PLATE 15A, 4TH EDITION, AND PLATE 1, SMACNA FIRE DAMPER GUIDE, 1970.

4. FIRE DAMPER SLEEVE SHALL BE SAME GAUGE AS DUCTWORK WITH A MINIMUM OF 16 GAUGE FOR HIGH VELOCITY AND 16 GAUGE FOR RECTANGULAR DUCTWORK UP TO 36" WIDE. DUCTWORK ABOVE SHALL BE 14 GAUGE.

5. TAPS SHALL NOT BE OF LIGHTER GAUGE THAN CONNECTING DUCTWORK. MINIMUM GAUGE SHALL BE 18.

6. FIRE DAMPER AND TAPS SHALL BE ATTACHED TO SLEEVE BY SPOTWELDING. WELDS FOR ATTACHING DAMPER SHALL BE IN TWO (2) ROWS, SIX (6) INCHES APART, AND MINIMUM TWO (2) WELDS PER SIDE. WELDS FOR TAPS SHALL BE ONE (1) ROW, TWO (2) INCHES APART.

7. RETAINING ANGLES SHALL BE PLACED ON BOTH SIDES OF WALL AND SECURED TO SLEEVE WITH NO. 10 SHEET METAL SCREWS OR 1/4" DIA. NUTS ANDS BOLTS 6 INCHES TO CENTER, MINIMUM 2 PER SIDE. ANGLES SHALL BE 1-1/2" X 1-1/2" X 14 GAUGE GALVANIZED STEEL AND SHALL NOT BE ATTACHED TO THE WALL.

8. THE CONTRACTOR SHALL SEAL ALL JOINTS OF THE SLEEVE WITH SEALANT. THE JOINT BETWEEN TAPS AND DUCTWORK SHALL BE MADE TIGHT AND SECURED BY NO. 10 SHEET METAL SCREWS (ONE PER SIDE OF RECTANGULAR DUCT, OR THREE PER ROUND DUCT), SEALED WITH SEALANT AND THEN TAPED. ALL JOINTS SHALL BE AIRTIGHT. SEALANT SHALL BE 3M COMPANY NO. 800 OR APPROVED EQUAL AND TAPE SHALL BE GRAY VINYL DUCT TAPE AS MANUFACTURED BY NASHUA CORP. OR APPROVED EQUAL.

9. TO ALLOW FOR EXPANSION, DAMPERS SHALL HAVE A TOP CLEARANCE EQUIVALENT TO 1/8" FOR EACH FOOT OF DAMPER HEIGHT. THE SIDE CLEARANCE SHALL BE 1/8" FOR EACH FOOT OF DAMPER WIDTH DIVIDED EQUALLY TO THE RIGHT AND LEFT OF THE COLLAR. THE MAXIMUM CLEARANCE FOR THE TOP AND THE TOTAL OF BOTH SIDES SHALL BE 1/2" EACH.

10. ACCESS DOOR SHALL BE PLACED ON EITHER SIDE OF THE SLEEVE ONLY. IF THE SIDE INSTALLATION DOES NOT PERMIT ACCESS TO THE DAMPER FOR INSPECTION AND MAINTENANCE, THE DOOR MAY BE PLACED ON THE BOTTOM OF THE SLEEVE. IN ANY EVENT, ACCESS TO THE FIRE DAMPER MUST BE ASSURED.

11. FIRE DAMPERS WILL BE PROVIDED AT ALL DUCT PENETRATIONS OF RATED WALLS, PARTITIONS, FLOORS, ETC. VOLUME DAMPERS WILL BE PROVIDED AT ALL BRANCH TAKEOFFS AND AT OTHER LOCATIONS WHERE REQUIRED. ACCESS DOORS SHALL BE PROVIDED IN THE DUCTS WHEREVER REQUIRED FOR ACCESS TO FUSIBLE LINK DAMPERS OR OTHER CONTROLS.

C. HEATING

1. GENERALLY ACOUSTIC SPACES DO NOT REQUIRE MUCH HEATING; HOWEVER, MECHANICAL ENGINEER TO EVALUATE HEATING/COOLING LOAD AND MAKE RECOMMENDATIONS BASED ON ENVIRONMENTAL LOADS, EQUIPMENT LOADS, ETC

D. NOISE CRITERIA VALUES

1. THE DESIGN NC VALUES FOR THE ACOUSTIC SPACES ARE AS FOLLOWS:
   a. CONTROL ROOM – NC20
   b. ISO BOOTH – NC15

WSDG
WALTERS-STORYK DESIGN GROUP

120405 - LES Girls Club - HVAC

Lower Eastside Girls Club
101 Avenue D
New York, NY 10009

Date: April 5, 2012
Prepared by: Caroline Feldmeier

Room Name	Lighting	SQ FT	Occupancy Average	Occupancy BTU	Equipment	Quantity	Amperage Per Unit	Wattage Per Unity	Total Wattage	Diversity	Equip BTU	TOTAL
Control		66	2		Self Powered Nearfield Monitors (5.1)	5	0.47	40	200	0.5	340	
					Self Powered Sub (5.1)	1	4.42	375	375	0.5	638	
					Self Poweres Nearfield Monitors (Stereo)	2	1.77	150	300	0.5	510	
					Self Powered Sub (Stereo)	1	1.41	120	120	0.5	204	
					Left Front Equipment Rack	14	0.18	15	210	0.7	500	
					Right Rear Equipment Rack	14	0.18	15	210	0.7	500	
					Control Surface	1	1.53	130	130	0.7	309	
					Apple 23" Cinema Display	2	1.06	90	180	0.7	428	
					Miscellaneous Computer - KVM, USB & Firewire Extenders	1	0.59	50	50	0.7	119	
					Miscellaneous Video - Scaling & Distribution	1	0.59	50	50	0.7	119	
					Kurzweil PC88MX	1	2.00	170	170	0.5	289	
					88 Key Controller	1	0.47	40	40	0.5	68	
					Midi Drum Controller	1	0.12	10	10	0.5	17	
					Sharp Aquos 52" LCD Monitor	1	2.00	170	170	0.5	289	
					Macbook Pro	4	1.00	85	340	0.7	809	
	Lighting BTU	**671**	**Occupancy BTU**	**400**	**Equip BTU/hr**						**5139**	**6210**
Iso		61	2		Guitar / Keyboard / Bass Amplifiers	2	1.5	127	255	0.5	433	
	Lighting BTU	**625**	**Occupancy BTU**	**400**	**Equip BTU/hr**						**433**	**1458**
Machine Closet (Remote)		13	0		Apple Mac Pro	1	12	1018	1018	0.7	2423	
					UPS	1	0.74	63	63	0.7	150	
					Miscellaneous Computer - KVM, USB & Firewire Extenders	1	0.59	50	50	0.7	119	
					Miscellaneous Video - Scaling & Distribution	1	0.59	50	50	0.7	119	
					Master Clock	1	0.14	12	12	0.7	29	
					Speaker Processor	1	0.41	35	35	0.7	83	
					Recording Front Ends	2	3.54	300	600	0.7	1428	
					Cue System	1	1.18	100	100	0.7	238	
					Network Storage	1	3.54	300	300	0.7	714	
	Lighting BTU	**23**	**Occupancy BTU**	**0**	**Equip BTU/hr**						**5303**	**5325**

Notes:

1. Equipment will require continuous cooling
2. Environmental load is not included in this load calculation
3. Equipment operates at 120V unless otherwise noted
4. Equipment loads to be verified when equipment is specified.
5. Lighting load based on incandescent fixtures (3W/sf). If LED lighting is used, load will be reduced.

DATE No. DESCRIPTION

REVISIONS

CONSULTANTS:

REVIEW NOT FOR CONSTRUCTION

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Mechanical Notes

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M1.1

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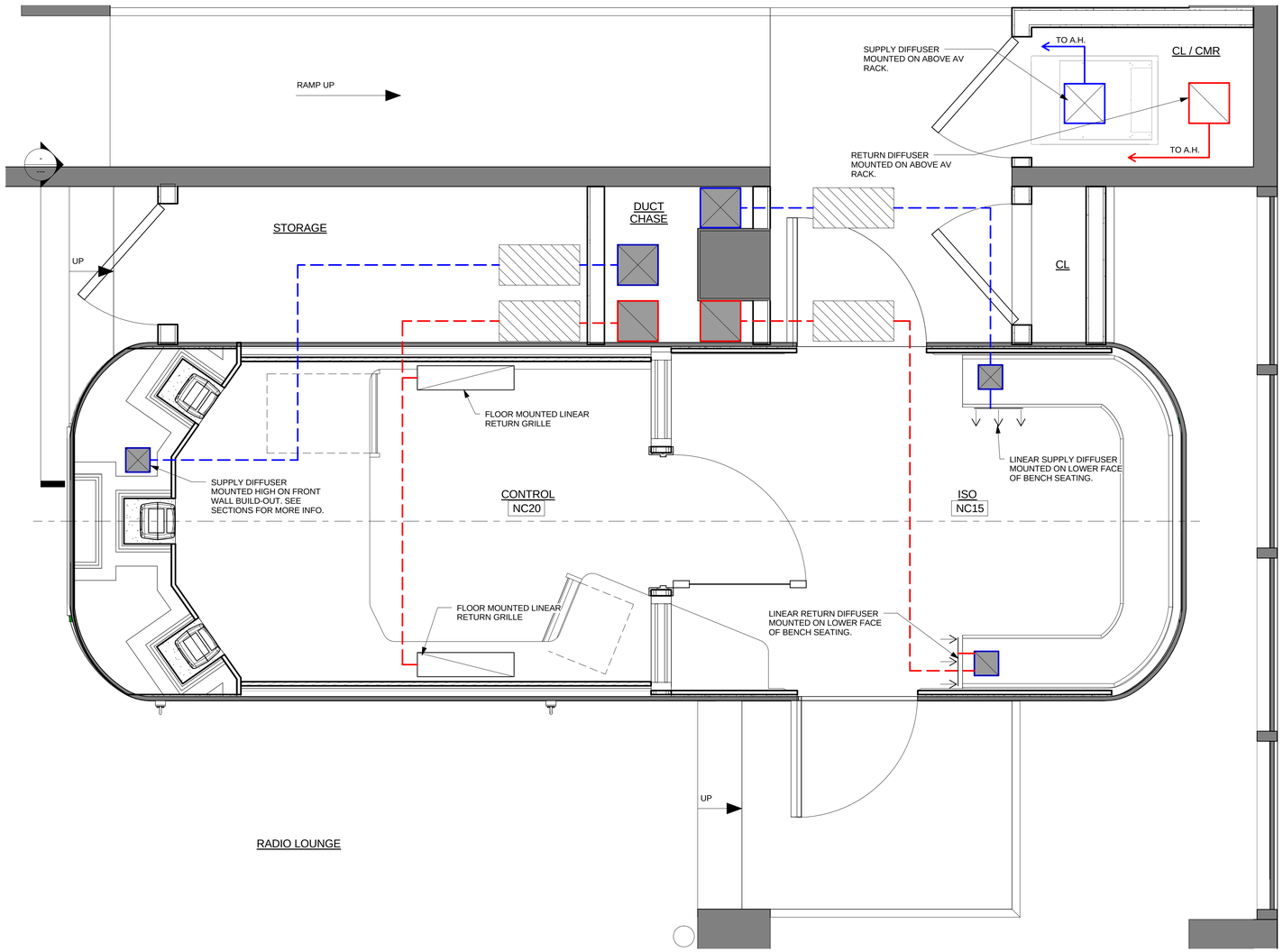

1 Airstream - Mechanical Accommodation Plan
3/4" = 1'-0"

SUPPLY AIR GRILLE

RETURN AIR GRILLE

LINEAR SUPPLY DIFFUSER - FINISH FOR ALL EXPOSED FIXTURES TO BE BLACK U.O.N

LINEAR RETURN DIFFUSER - FINISH FOR ALL EXPOSED FIXTURES TO BE BLACK U.O.N

SUPPLY GRILLE - FINISH FOR ALL EXPOSED FIXTURES TO BE BLACK U.O.N

RETURN GRILLE - FINISH FOR ALL EXPOSED FIXTURES TO BE BLACK U.O.N

SCHEMATIC SUPPLY DUCTWORK ROUTING ABOVE AIRSTREM FLOOR AND INSIDE ACOUSTIC TREATMENTS - DUCT CANNOT BE EXPOSED

SCHEMATIC SUPPLY DUCTWORK ROUTING RUNNING BELOW AIRSTREAM FLOOR.

SCHEMATIC RETURN DUCTWORK ROUTING ABOVE AIRSTREM FLOOR AND INSIDE ACOUSTIC TREATMENTS - DUCT CANNOT BE EXPOSED

SCHEMATIC RETURN DUCTWORK ROUTING RUNNING BELOW AIRSTREAM FLOOR.

VERTICAL SUPPLY RETURN

VERTICAL RETURN DUCT

INDICATES DUCT SILENCER.

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Mechanical Accommodation Plan

M1.2

95% Construction Documents

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