ENGINEERING DEPARTMENT

*ADD*ENDUM TO THE CONTRACT

for the

Auke Bay Elementary
School Renovation

Contract No. E12-042

ADDENDUM NO.: **TWO**

CURRENT DEADLINE FOR BIDS:
February 7, 2012

PREVIOUS ADDENDA: **ONE**

ISSUED BY:
City and Borough of Juneau
ENGINEERING DEPARTMENT
155 South Seward Street
Juneau, Alaska 99801

DATE ADDENDUM ISSUED: **January 31, 2012**

The following items of the contract are modified as herein indicated. All other items remain the same. This addendum has been issued and is posted online. Please refer to the CBJ Engineering Contracts Division webpage at: http://www.juneau.org/engineering_ftp/contracts/Contracts.php

PROJECT MANUAL – Volume III:

1. Section 00031 – Special Notice to Bidders. ***Add*** the following contact information to page one and add these Unions as Signatory to the Project Labor Agreement:

Union Name	Contact	Telephone	Fax	E-mail Address
Sheetmetal Local 23	Dale Welty	907 277-2457	907 277-2457	clhayes@alaska.net
Sprinkler Local 669	Chris Hayes	907 283-8198	n/a	smwak@alaska.net
Painters Local 1959	Bronson Frye	907 562-8843		

Article 3.02. ***Add*** the following sentence: "Subcontractors shall sign and return the attached Letter of Assent to the Juneau Building and Trades Council."

Add the attached Subontractor Letter of Assent (LOA), labeled Addendum No. 2, to the end of Section 00031.

A copy of the CD with all labor agreements is available upon request from the CBJ Contracts office – 907-586-0892 or 907-586-0490.

2. Section 015000 Temporary Facilities and Controls: ***Add*** the following subsections:

"3.2.K.: "Data Service: Provide temporary connections of new and temporary data services in Owner occupied portions of the building during Phase II.

3.2.L.: “Intercom: Reconfigure existing intercom system for operation in Owner occupied, new and existing, portions of the building during Phase II.”

3. Section 020800 ASBESTOS ABATEMENT, Article 1.2, Paragraph B: ***Add*** the following sub-paragraph: “6. Asbestos Cement (AC) sanitary sewer pipe buried throughout the project area.

4. Section 020800 ASBESTOS ABATEMENT, Article 1.3, Paragraph C : ***Delete*** the first sentence and replace it with the following sentence: “The intent of the abatement portion of the overall Project is to perform all demolition and abatement of all ACM within the various abatement areas on each floor and on the project site.”

5. Section 020800 ASBESTOS ABATEMENT, Article 1.2, Paragraph C ***Add*** the following sub-paragraph: “5. Asbestos Cement (AC) sanitary sewer pipe buried throughout the project site, at locations requiring demolition of the AC pipe. Locations requiring abatement are shown on the civil (C-series) drawings. Coordinate with General Contractor regarding AC pipe removal.”

6. Section 020800 ASBESTOS ABATEMENT, Article 3.8, Paragraph B: ***Add*** the following sentence: “ Only “Personal Monitoring” is required for outdoor work on AC pipe.”

7. Section 020800 ASBESTOS ABATEMENT, Article 3.8, Paragraph D: ***Add*** the following sub-paragraph: “6. Clearance for outdoor work on AC pipe will be visual. No air monitoring will be required.”

8. Section 064116 Plastic Laminate-Faced Architectural Cabinets: Section 2.3 K. 1. b: ***Change*** Triple Coat Hook Model No. to “846.52.808”.

9. Section 087100 Door Hardware Addendum No. 1, Subsection 2.9.B.: ***Replace*** with “Manufacturer: LENEL; supplied by:

    a. Aronson Security Group (ASG),

    b. Simplex Grinnell, or

    c. Other approved by Architect and Owner.”

10. Section 211300 FIRE SUPPRESSION SPRINKLERS, Part 1.4, Paragraph A. ***Add*** the following sub paragraph: “8. Provide dry sprinkler coverage of crawl spaces.”

11. Section 211300 FIRE SUPPRESSION SPRINKLERS, Part 1.5, Paragraph C. ***Replace*** “1.5D.” with “1.7D”.

12. Section 211300 FIRE SUPPRESSION SPRINKLERS, Part 1.6, Paragraph D.4. ***Replace*** “Phase 2” with “Phase 3”.

13. Section 211300 FIRE SUPPRESSION SPRINKLERS, Part 3.1, Paragraph I. ***Add*** “Gym, Gym Storage,” after “Janitor’s rooms,”.

14. Section 221005 PLUMBING PIPING, Part 3.3, Paragraph AB. ***Add*** the following sub paragraph: “13.All hangers are to be installed on the outside of the insulated piping.”

15. Section 221005 PLUMBING PIPING, Part 3.6, Paragraph A. ***Replace*** “Section 330500” with “Section 221113 and Section 221005 3.6”.

16. Section 230510 GENERAL MECHANICAL HVAC, Part 1.1, Paragraph D. ***Add*** the following sub paragraphs;

    “1. Occupied portions of the building shall have operational ventilation systems. MD701 drawing shows temporary connections between completed Phase 1 duct systems and temporary

existing Phase 3 area duct systems. The ventilation for occupied Phase 1 area and Phase 3 area shall be provided by the completed Phase 1 air handling systems and temporary systems. All temporary systems shall be removed prior to the end of Phase 3.

2. Occupied portions of the building shall have operational heating systems. Phase 1 heating plant, including the Electric boiler, shall be complete prior to occupancy of Phase 1 area and start of the school year. The Electric boiler shall be utilized to provide the heating of the completed Phase 1 area and the temporary existing heating system for the Occupied Phase 3 area. Temporary piping connections between completed Phase 1 heating system and temporary existing Phase 3 area heating units and heating piping shall be complete prior to the start of the school year so that the Phase 3 area has an operational heating system during the School Year. Existing controls serving the Phase 3 area shall be maintained or temporary systems installed for temporary existing Phase 3 heating units as necessary for proper operation during the school year. All temporary systems shall be removed prior to the end of Phase 3."

17. Section 230593 TESTING, ADJUSTING, AND BALANCING FOR HVAC, Part 1.4, Paragraph A. ***Add*** the following sub paragraph: "9. Water-to-Air Heat Pumps (HP) Systems."

18. Section 230713 DUCT INSULATION, Part 3.3, Paragraph A. ***Add*** the following sub paragraph: "10.Water-to-Air Heat Pump (HP) supply ducts."

19. Section 230719 HVAC PIPING INSULATION, Part 2.2. ***Delete*** Paragraph C. in its entirety.

20. Section 230926 BUILDING AUTOMATION SYSTEM AND AUTOMATIC CONTROLS, Part 3.8, Paragraph E.1.e. ***Change*** "AV-7" to read "AV-G12".

21. Section 230926 BUILDING AUTOMATION SYSTEM AND AUTOMATIC CONTROLS, Part 3.8, Paragraph E.2.c.4). ***Remove*** last sentence and replace with "When flow rate drops below 75% for 10 minutes, LAG pump shall be disabled."

22. Section 230926 BUILDING AUTOMATION SYSTEM AND AUTOMATIC CONTROLS, Part 3.8, Paragraph J.3. ***Add*** "Return air damper (RAD) shall modulate to maintain positive RF discharge pressure." to the end of the paragraph.

23. Section 230926 BUILDING AUTOMATION SYSTEM AND AUTOMATIC CONTROLS, Part 3.8, Paragraph S. ***Change*** the Title to read "LIGHTING CONTROL PANEL:". In the first sentence, Remove the words "monitoring of intrusion alarms (where shown by Electrical) and".

24. Section 232113 HYDRONIC PIPING, Part 3.2, Paragraph I. ***Add*** the following sub paragraph: "10.All hangers are to be installed on the outside of the insulated piping."

25. Section 238101 TERMINAL HEAT TRANSFER UNITS, Part 2.1, Paragraph A.1. ***Replace*** "Rittling FSOD" with "Rittling FS-5"

26. Section 238101 TERMINAL HEAT TRANSFER UNITS, Part 2.2, Paragraph A.1. ***Replace*** "Rittling FSOD" with "Rittling FS-5"

27. Section 238101 TERMINAL HEAT TRANSFER UNITS, ***Add*** the following Specification section, Part 2.5 Finned Tube Radiation (FP-4):

"2.5 FINNED TUBE RADIATION (FP-4)

A. Manufacturers:

1. Rittling PIBG5
2. Sterling
3. Vulcan

B. Heating Elements: Single tier, 1 inch ID seamless copper tubing, mechanically expanded into evenly spaced aluminum fins sized 4-1/4 x 4-1/4 inches, suitable for soldered fittings.

C. Element Hangers: Quiet operating, ball bearing cradle type providing unrestricted longitudinal movement, on pedestal enclosure. Supports maximum of 3 feet on center.

D. Cabinet: Pedestal type. 16 gage thick steel, integral grille on top; adequately braced and reinforced for stiffness.

E. Finish: Factory applied baked enamel of color as selected by ARCHITECT.

F. Capacity: As scheduled."

28. Section 238149 WATER-TO-WATER HEAT PUMPS, Part 1.2, Paragraphs B and D. Reference shall read "230926".

29. Section 238149 WATER-TO-WATER HEAT PUMPS, Part 2.2, Paragraph A.6. ***Replace*** Paragraph A.6 with the following: "6. Evaporator Flow rate: 220 gpm at design conditions. 24F Evap leaving temperature, 30F Evaporator entering temperature. 19 ft maximum pressure drop. Methanol Solution: 13.6% by weight for evaporator. Condenser Flow rate: 117 gpm at design conditions. 105F Condenser Entering Temperature. 120F Condenser Leaving Temperature. 5 ft maximum pressure drop. Water fluid for Condenser."

30. Section 238149 WATER-TO-WATER HEAT PUMPS, Part 2.2, Paragraph H. ***Add*** the following: "8. Condenser water flow switch."

31. Section 238149 WATER-TO-WATER HEAT PUMPS, Part 2.2, Paragraph J. ***Add*** the following paragraphs:

"h. Kilowatt monitoring (KW input).
i. % load."

32. Section 238149 WATER-TO-WATER HEAT PUMPS, Part 2.2, Paragraph M. ***Add*** the following paragraph: "8. See 230926 for Sequence of Operations. Provide internal controls necessary so that system can operate as indicated in 23 0926 Sequence of Operations. Coordinate closely with Control Contractor."

33. Section 238149 WATER-TO-WATER HEAT PUMPS, Part 3.3, Paragraph B. ***Add*** the following paragraph: "4. Factory technician shall provide the start-up of GSHP and work cooperatively with the Control Contractor to provide proper operation as detailed in 230926 sequence of operations. Factory technician shall have experience with systems using chillers as heat pumps in heating applications."

34. Section 238149 WATER-TO-WATER HEAT PUMPS, Part 3.3, Paragraph E. ***Add*** the following paragraph: "1. Factory technician on-site for training and commissioning shall have experience with systems using chillers as heat pumps in heating applications. Factory technician shall work cooperatively with Commissioning Agent and Control Contractor during commissioning to provide proper operation as detailed in 230926 sequence of operations."

DRAWINGS – Volume I:

35. Sheet AD400: ***Add*** Keynote "437 REMOVE ELEVATOR AND ASSOCIATED EQUIPMENT SEE S201".

36. Sheet AD406: Kitchen 124, ***Change*** Keynote 411 at West room to Keynote "410".

37. Sheet AD409: ***Add*** sheet note for items not shown: "Demo existing casework and plumbing fixtures, typ".

38. Sheet AD412: ***Delete*** Keynote 432 and associated drawing element.

39. Sheet AD414: ***Add*** sheet note for items not shown: "Demo existing casework and plumbing fixtures, typ".

40. Sheet AD414: ***Add*** Keynote "409" at Storage 248.

41. Sheet AD415: ***Add*** sheet note for items not shown: "Demo existing casework and plumbing fixtures, typ".

42. Sheet AD415: ***Add*** Keynote "408" at south wall Classroom 217.

43. Sheet L502: ***Replace*** with the attached Sheet L502 labeled Addendum No. 2.

44. Sheet C400: Sheet C400 titled "Typical Sections" under Typical Section Notes ***Add*** "8. Additional excavation is required for the geothermal loopfield work; see mechanical sheets M400 and M704 for locations and details."

DRAWINGS – Volume II:

45. M002 ***Revise*** EF-2 and EF-3 electrical to 208 volt, 3 phase.

46. S505 ***Replace*** with the attached Sheet S505 labeled Addendum No. 2

47. M003 ***Add*** automatic valve and flowsetter G12 to the Automatic Valve and Flowsetter Schedule on sheet M003. G12 shall serve minimum flow for Pumps P-1A and P-1B and shall be located in Mechanical 122. Flow rate: 60 gpm. Flowsetter size: 2-1/2 inch. Pipe size: 2-1/2 inch. Pressure drop: 5 psi. Modulating 2-way DDC automatic valve.

48. M209 Install CUH-1 and related piping in Entry on wall opposite shown due to revised door location.

49. M301 ***Add*** fire dampers to both 8-inch diameter ducts.

50. M400 ***Replace*** Sheet Note 1 with the following: "1. The Geothermal loopfield site will be excavated and backfilled under Civil Division. See Sheets M704 and Civil drawings for details of this work."

51. M400 ***Replace*** Sheet Note 2.D. with the following: "D. Slope piping up towards the crawl space and mechanical room so that trapped air is minimized."

52. M400 ***Add*** the following Sheet Note: "7. See M704 details for minimum depths of piping, bore holes, shot rock, insulation, and trenching required Please note that areas outside of borehole locations and

piping trenches may have different minimum depths, however, the bury depths shown on M704 shall be maintained for geothermal piping installation areas. Coordinate with Civil."

53. M400 Sheet Note 4. ***Add*** "Finished" to the beginning of the sentence.

54. M401, M601 ***Add*** 2-1/2 inch bypass piping, isolating valves, AV-G12, and flowsetter across 4-inch GSHS and GSHR piping in Mechanical 122 after 2-inch takeoff.

55. M403 (2) 22-inch diameter return air ducts and (1) 30-inch diameter supply duct in gym shall be routed through truss openings. Northern 22-inch duct shall be located in the Grid 6 truss opening so that duct does not block clerestory.

56. M404 ***Replace*** entire M404 Drawing with attached M404.

57. Sheet E001: ***Change*** text for data outlet to read, "Data, 18" AFF UON. One jack per outlet UON in plan."

58. Sheet E101 Detail 1: ***Change*** detail call out at canopy photocell to read 2/E402.

59. Sheet E201 Detail 1: ***Replace*** sheet with attached re-issued sheet.

60. Sheet E202 Detail 1: ***Delete*** magnetic hold opens at door 158A.

61. Sheet E203 Detail 1: ***Add*** connection to HP-1 in crawl space. Connect to L1C-66,68,70. Refer to revised mechanical equipment schedule, issued with this addendum, for additional circuiting requirements.

62. Sheet E203 Detail 1: ***Add*** a duplex receptacle near HP-1 for a condensate pump. Connect receptacle to circuit L1A-54.

63. Sheet E206 Detail 1: ***Add*** duplex receptacle near HP-4. Connect receptacle to circuit L1C-6.

64. Sheet E206 Detail 1: ***Add*** connection to EF-2 in the crawl space. Connect to L1C-60,62,64. Refer to revised mechanical equipment schedule, issued with this addendum, for additional circuiting requirements.

65. Sheet E206 Detail 1: ***Add*** connection to CUH-2 in Vestibule 150. Connect to L1C-8. Refer to revised mechanical equipment schedule, issued with this addendum, for additional circuiting requirements.

66. Sheet E206 Detail 1: ***Add*** connection to kitchen hood variable frequency drive. Connect to L1C-54,56,58. Refer to revised mechanical equipment schedule, issued with this addendum, for additional circuiting requirements.

67. Sheet E206 Detail 1: ***Change*** camera height at grid V-6 to 10-feet AFG.

68. Sheet E206 Detail 1: ***Change*** duplex receptacle and data outlet height in southeast corner of Rally100 to 18-inches AFF.

69. Sheet E207 Detail 1: Move sump pump to northwest corner of Elevator 154.

70. Sheet E207 Detail 1: Add connection to audio rack in AV 105B. Provide 20 ampere, 208 volt, single phase receptacle. Connect to circuit L1B-3,5.

71. Sheet E208 Detail 1: ***Change*** quad receptacle and data outlet height on north wall of Reception 107 to 18-inches AFF.

72. Sheet E208 Detail 1: ***Add*** sheet note 2 at shunt trip pushbutton.

73. Sheet E208 Notes: ***Add*** sheet note 2 to read, "Provide recessed enclosure."

74. Sheet E208 Detail 1: ***Change*** camera height at grid R-11 to 8-feet AFG.

75. Sheet E209 Detail 1: ***Add*** connection to CUH-1 in Vestibule 255A. Connect to circuit L2A-70. Refer to mechanical equipment schedule, issued with this addendum, for additional circuiting requirements.

76. Sheet E211 Detail 1: ***Add*** connection to CUH-1 in Vestibule 231A. Connect to circuit L2B-2. Refer to mechanical equipment schedule, issued with this addendum, for additional circuiting requirements.

77. Sheet E214 Detail 1: ***Add*** connection to EF-3 (on roof) at grid S-4. Wire through variable frequency drive in Kitchen 104. Refer to mechanical equipment schedule, issued with this addendum, for additional circuiting requirements.

78. Sheet E217 Detail 1***: Add*** connection to HP-5 in Mechanical 302. Connect to circuit L2A-51,53. Refer to mechanical equipment schedule, issued with this addendum, for additional circuiting requirements.

79. Sheet E217 Detail 1: ***Add*** connection to EF-4 in Mechanical 301. Connect to circuit L2B-40. Refer to mechanical equipment schedule, issued with this addendum for additional circuiting requirements.

80. Sheet E301 Detail 1: Move Type AA light fixture at grid A approximately 9-feet south.

81. Sheet E302 Detail 1: Move Type AA light fixture at grid A, west of Classroom 118, approximately 10-feet north.

82. Sheet E302 Detail 1: Move Type AA light fixture at grid 11, south of Classroom 116, approximately 10-feet east.

83. Sheet E302 Detail 1: Move Type AA light fixture at grid 11, south of Classroom 115, approximately 6-feet east.

84. Sheet E304 Detail 1: ***Add*** a Type C/54 light fixture in the third display case at grid N-9.1.

85. Sheet E306 Detail 1: *Change* height of Type AA light fixture at Rally 100 exterior door to 10-feet AFG.

86. Sheet E306 Detail 1: ***Change*** height of Type A pendant mounted light fixtures in Rally 100 to 7'6" AFF.

87. Sheet E306 Detail 1: ***Delete*** Type C undercabinet light fixtures between grids 5 and 6 in Rally 100.

88. Sheet E307 Detail 1: ***Change*** height of Type L light fixtures in Multi-Purpose 105 to 8-feet AFF.

89. Sheet E308 Detail 1: Revise length of Type C undercabinet light fixtures in Reception 107 to approximately 7-feet.

90. Sheet E308 Detail 1: Move Type AA light fixture at grid M-11, approximately 4-feet west.

91. Sheet E308 Detail 1: Move Type AA light fixture at grid P-11, approximately 8-feet west.

92. Sheet E309 Detail 1: ***Delete*** Type AA light fixture at grid A-5.

93. Sheet E309 Detail 1: ***Add*** type H light fixture in soffit outside door 255A. Connect to exterior lighting circuit.

94. Sheet E405: ***Replace*** sheet with attached re-issued sheet.

95. Sheet E406: ***Replace*** sheet with attached re-issued sheet.

96. Sheet E407: ***Replace*** sheet with attached re-issued sheet.

97. Sheet ASB101: ***Replac***e sheet with attached sheet ASB101-Addendum 2.

98. Sheet ASB102: ***Replace*** sheet with attached sheet ASB102-Addendum 2.

Attachments:
1. Subcontractor Letter of Assent (LOA) to Project Labor Agreement
2. L502 Landscape Details
3. S505 Roof Framing Details
4. M404 Sections
5. E201 Partial First Floor Power & Signal Plan
6. E405 Schedules
7. E406 Schedules
8. E407 Schedules
9. ASB101 Overall First Floor Plan
10. ASB102 Overall Second Floor Plan

By: _____
Jennifer Mannix,
Contract Administrator

Date: January 31, 2012

Total number of pages contained within this Addendum: 18

PROJECT LABOR AGREEMENT

SUBCONTRACTOR LETTER OF ASSENT (LOA)

Auke Bay Elementary School Renovation, Contract No. E12-042

The Auke Bay Elementary School Renovation Contract (City and Borough of Juneau contract E12-042, hereafter "CONTRACT"), is subject to a Project Labor Agreement (PLA) The Contractor and Subcontractors who are awarded the work are contractually required to sign and comply with the PLA. The PLA is included in the CONTRACT as Section 00031 – SPECIAL NOTICE TO BIDDERS.

Pursuant to the PLA, including Articles 3.02 and 5.04, the undersigned authorized representative of the Subcontractor employer acknowledges and understands that they will comply with and be bound by all of the terms and conditions of the PLA, including any present or future modifications, amendments or addenda thereto. The Subcontractor acknowledges the PLA as the singular binding Agreement for the defined Project. The PLA and this LOA shall only apply to the Auke Bay Elementary School Renovation Project defined in the PLA and to no other project(s). The Subcontractor acknowledges and agrees to make contributions to the established fringe benefit funds under Article 12.01 in the amounts designated in the Appropriate Union agreement and its accompanying Schedule A.

This LOA shall remain in effect for the duration of all work performed under the PLA, by the undersigned Employer, on the defined Project.

For the Employer (Subcontractor):

Authorized Representative (Print):

_____

Title:_____

Authorized Representative (Signature):

_____

Date:_____

Name of Employer (Subcontractor:_____

License or Registration No.:_____

Address:_____

City, State, Zip:_____

Phone:_____

Fax:_____

For the General Contractor:

Authorized Representative (Print):

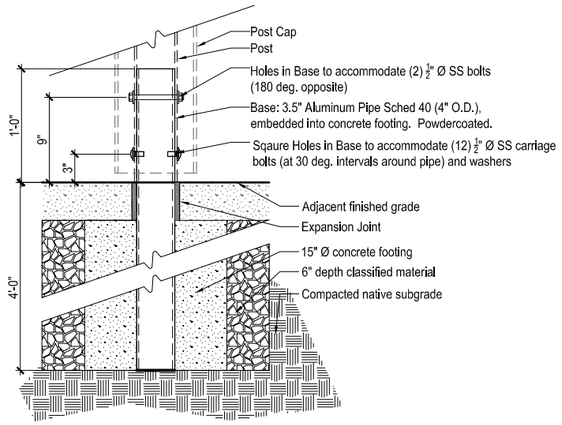
_____

Title:_____

Authorized Representative (Signature):

_____

Date:_____



5 L502 Post Base and Footing

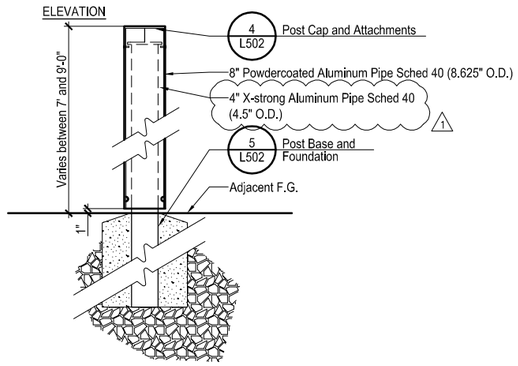
SCALE: 1-1/2"=1'-0" dt-post-sound-fing.dwg

Notes:
1) Sound posts will decrease in size from 9' height closest to the architectural canopy, decreasing each post away from canopy.
2) Contractor shall create one full size mock up for a 'reference post' to test sound quality and structural stability. Contractor shall work with Landscape Architect to determine length of 'reference post' as needed to achieve desired tone. Once tone and 'reference post' mock up are approved, Contractor shall use the following formula to find the lengths of four remaining posts.
L2 = L1 * Square Root (F1/F2)
- L2 = the length of the next pipe (in mm)
- L1 = length of 'reference post' (in mm)
- F1 = the note the 'reference post' plays (in Hertz frequency)
- F2 = the note desired for the next post (in Hertz frequency)

3) If needed, Hertz frequency levels can be provided by the Landscape Architect
4) Desired 'notes' to be developed with the Landscape Architect
5) If mock up is approved, it may be used on site.
6) All hardware to be SS
7) Entire Sound Post Assemblies to be Powdercoated. Submit colors for approval.
8) All welds shall be performed by certified welders

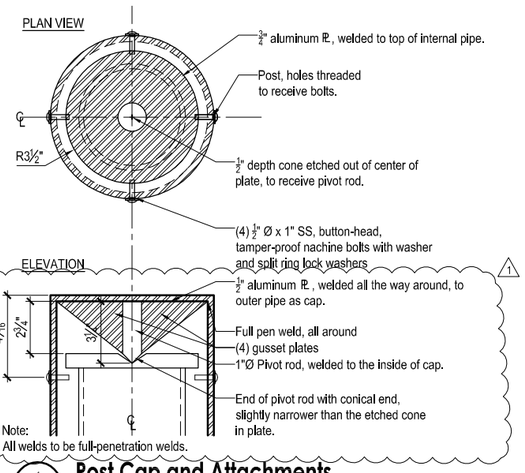
6 L502 Sound Post - Notes

SCALE: NTS dt-post-sound-notes.dwg



3 L502 Sound Post

SCALE: 3/4"=1'-0" dt-post-sound.dwg



4 L502 Post Cap and Attachments

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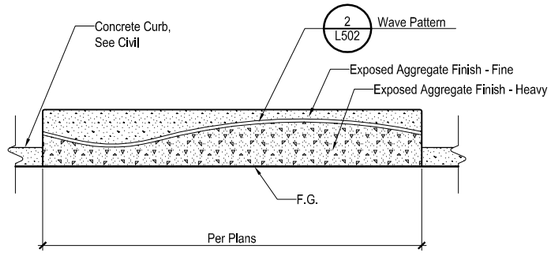
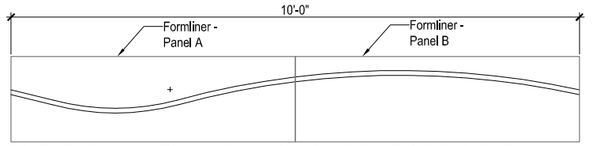


Note:
See Civil for Wave Wall Section

1 L502 Wave Wall - Elevation

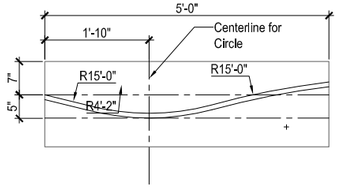
SCALE: 1/2"=1'-0" dt-wall-wave-elev.dwg



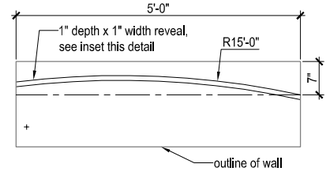
Note : Formliner Panels A and B to be used in a repeating pattern of A, B, A, B, etc. for length of wall.
See drawings for lengths of each wall.

REVEAL SECTION - NTS

WAVE PATTERN - PANEL A



WAVE PATTERN - PANEL B



2 L502 Wave Pattern

SCALE: 3/4"=1'-0"

SCALE AT 22X34	SCALE OF FEET
3"=1'-0"	1/3 0 1/3 2/3 1
1-1/2"=1'-0"	1 0 1 2
3/4"=1'-0"	2 0 2 4
1/2"=1'-0"	2 1 0 2 4

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STATE OF ALASKA 49 TH
Christopher R. Merli
Jan 31, 2012
No.10440
PROFESSIONAL LANDSCAPE ARCHITECT

City and Borough of Juneau - Juneau School District

Auke Bay Elementary School Renovation

CBJ Project No. E12-042
Juneau, Alaska

REVISIONS
1 January 31, 2012
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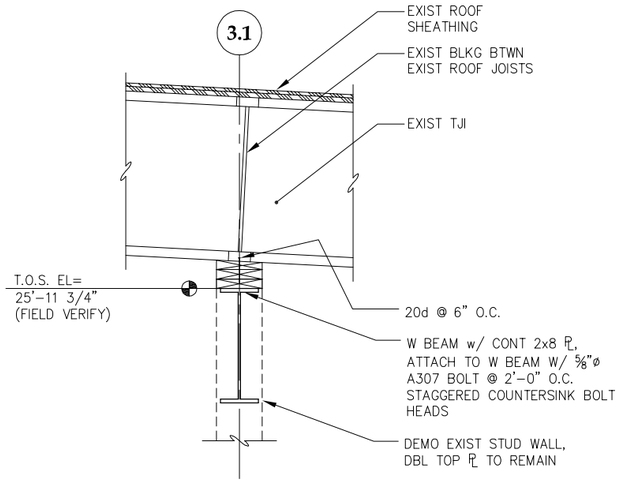
SHEET TITLE
Landscape Details

DATE: December 21, 2011
FILE: 10036

L502



P ROOF SECTION
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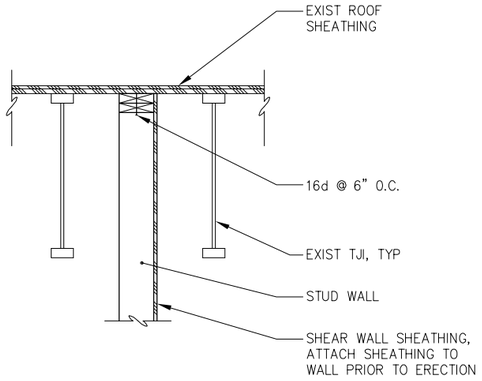

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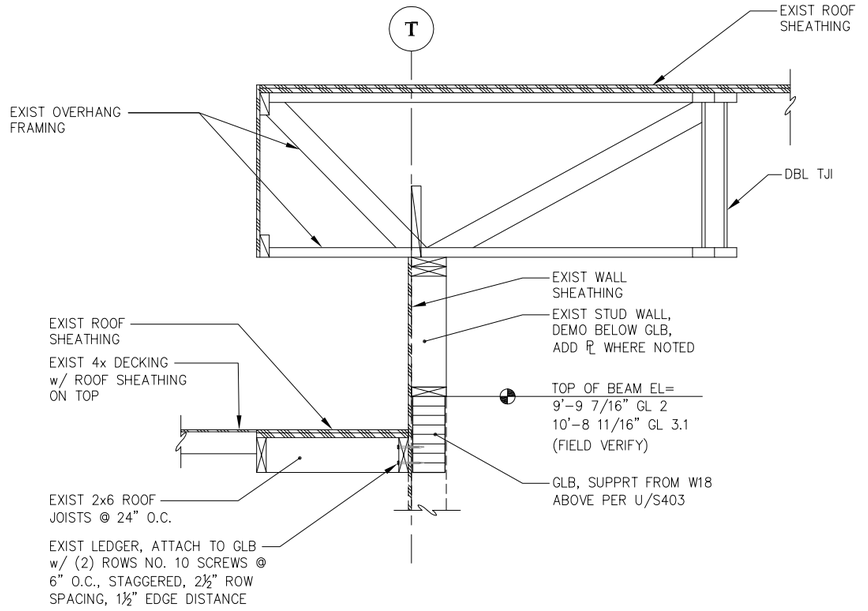

R ROOF SECTION
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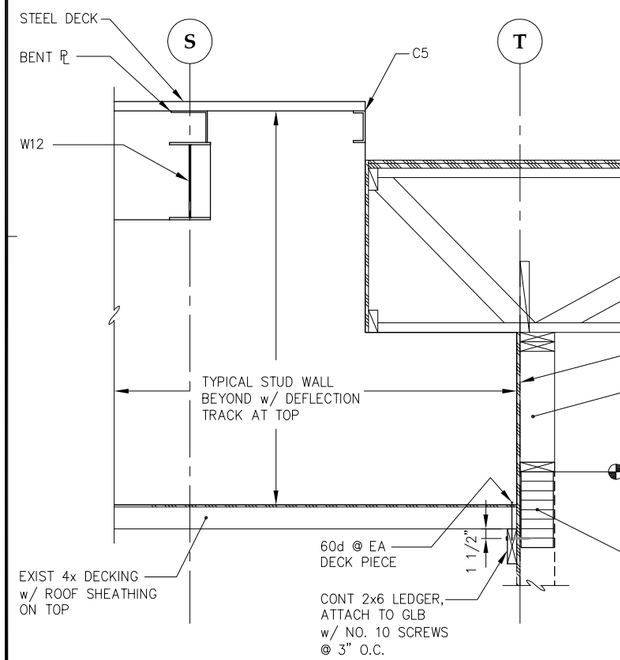
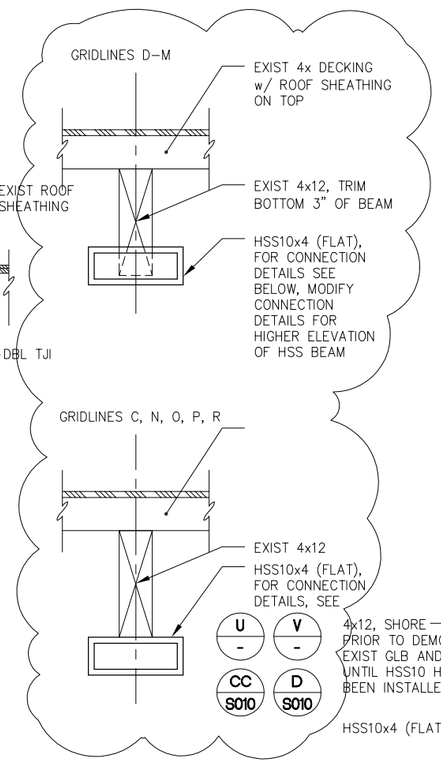
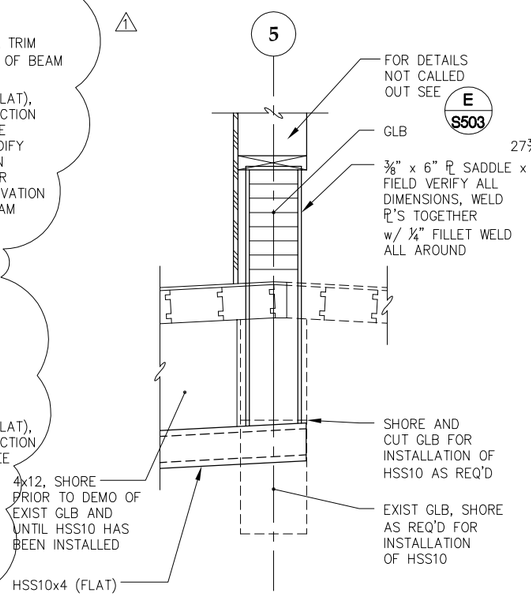


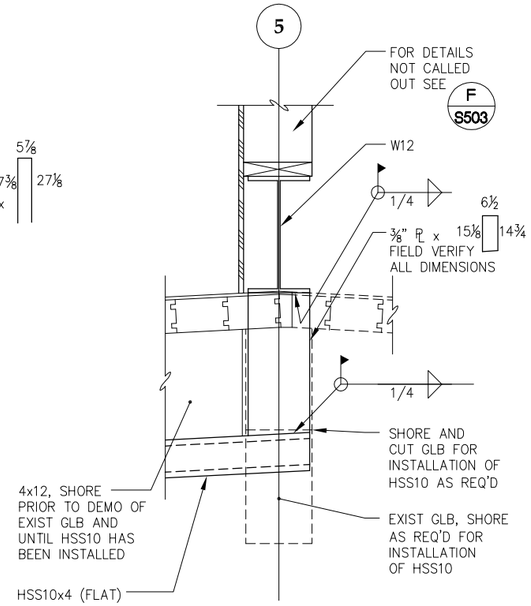
S ROOF SECTION
SCALE: 0 6" 1' 2'



T ROOF SECTION
SCALE: 0 6" 1' 2'



U ROOF SECTION
SCALE: 0 6" 1' 2'



V ROOF SECTION
SCALE: 0 6" 1' 2'

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STATE OF ALASKA
Christopher Olsnott
Jan 31, 2012
CE-7559
REGISTERED PROFESSIONAL ENGINEER

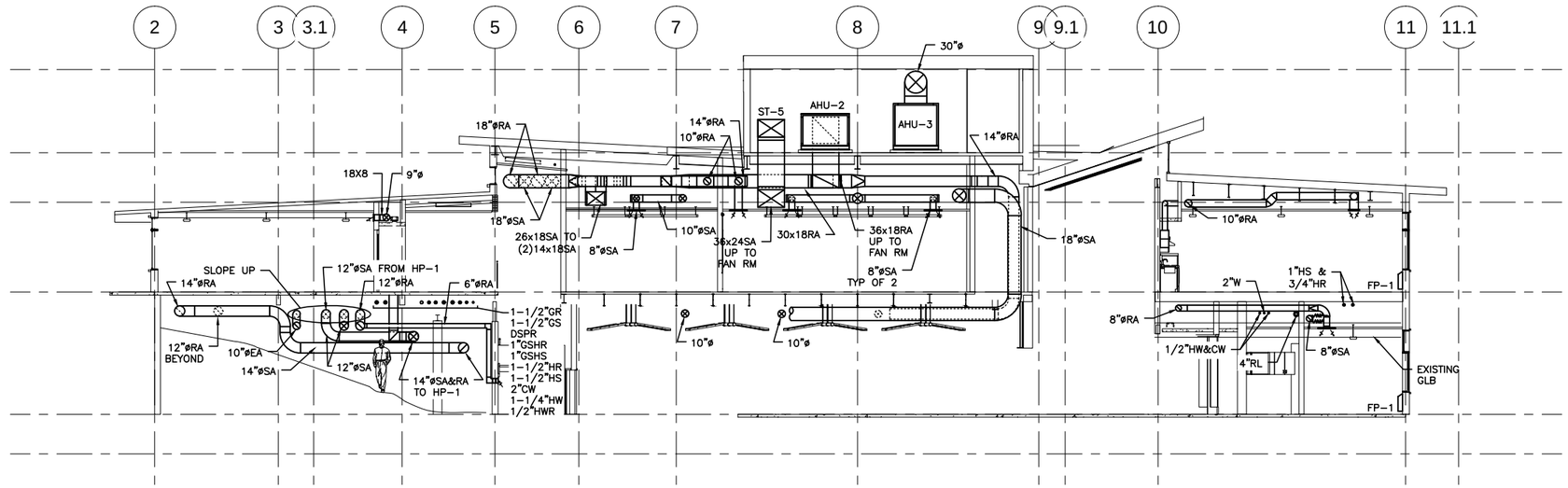
City and Borough of Juneau - Juneau School District
Auke Bay Elementary School Renovation
CBJ Project No. E12-042
Juneau, Alaska

REVISIONS
1 January 31, 2012
2 .
3 .

SHEET TITLE
ROOF FRAMING DETAILS

DATE: December 21, 2011
FILE: 102042

S505

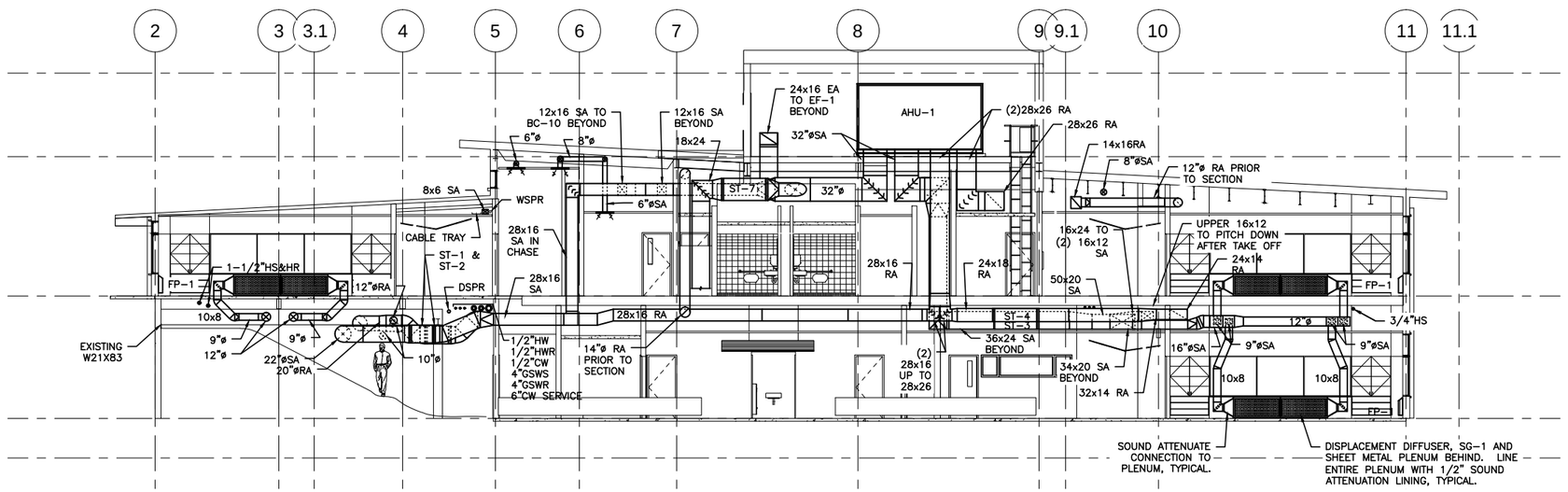


1 BUILDING SECTION

SCALE: 0 4' 8' 16'

SHEET NOTES:

1. SECTIONS ARE PROVIDED FOR CLARIFICATION ONLY. NOT ALL SYSTEMS ARE SHOWN, PARTICURLY PIPING. COORDINATE WITH PLAN SHEETS



2 BUILDING SECTION

SCALE: 0 4' 8' 16'

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ISSUE DATE: 1-31-2012

City and Borough of Juneau - Juneau School District

Auke Bay Elementary School Renovation

CBJ Project No. E12-042

Juneau, Alaska

REVISIONS

2 JANUARY 31, 2012

SHEET TITLE

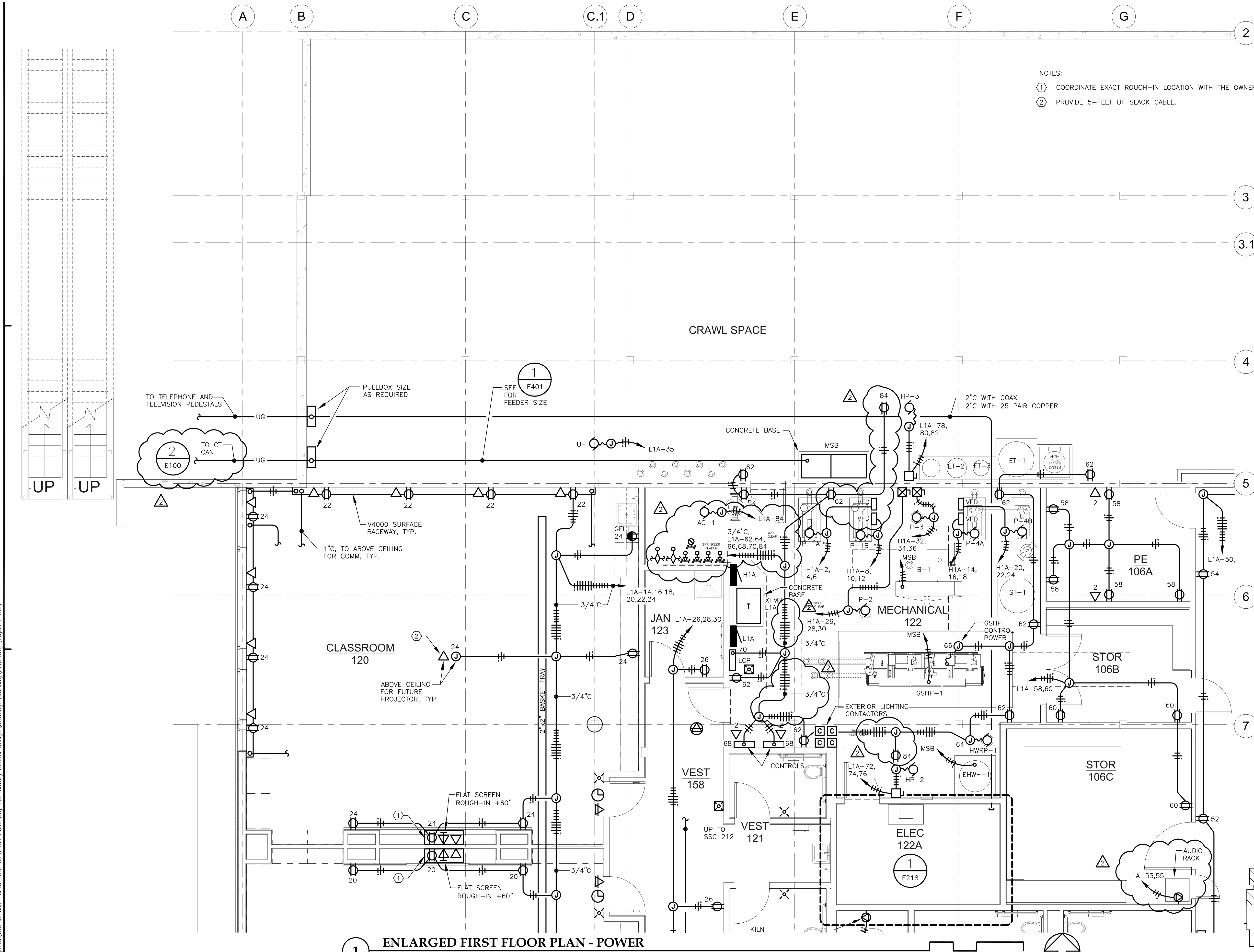
SECTIONS

DATE: December 21, 2011

FILE: 10036

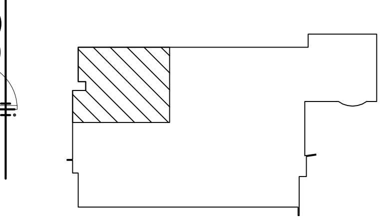
M404

NOTES:
1. COORDINATE EXACT ROUGH-IN LOCATION WITH THE OWNER.
2. PROVIDE 5-FEET OF SLACK CABLE.



1 ENLARGED FIRST FLOOR PLAN - POWER

SCALE: 0 2' 4' 8'



KEY PLAN

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ELECTRONIC SIGNATURE
Jan 31, 2012

City and Borough of Juneau - Juneau School District
Auke Bay Elementary School Renovation
CBJ Project No. E12-042
Juneau, Alaska

ADDENDUM NO. 2

REVISIONS
2 January 31, 2012

SHEET TITLE
PARTIAL FIRST FLOOR POWER & SIGNAL PLAN

DATE: December 21, 2011
FILE: 10036

E201

MECHANICAL EQUIPMENT SCHEDULE

DESIGNATION			LOAD					CIRCUITING	DISCONNECT		CONTROL		
ITEM	DESCRIPTION	LOCATION	HP	KW	AMPS	VOLTS	PHASE	CONDUCTORS	SWITCH	FUSE	STARTER SIZE	CONTROL	REMARKS
GSHP-1	GROUND SOURCE HEAT PUMP	MECHANICAL 122		78		480	3	1-1/2"C, 3 NO. 1, 1 NO. 6 GND					
B-1	ELECTRIC BOILER	MECHANICAL 122		255		480	3	2 RUNS, 2"C, 4 NO. 3/0, 1 NO. 3 GND					
HWRP-1	CIRC PUMP	MECHANICAL 122	1/8			120	1	1/2"C, 2 NO. 12, 1 NO. 12 GND	$				
P-1A, 1B	CIRC PUMP	MECHANICAL 122	15			480	3	3/4"C, 3 NO. 8, 1 NO. 10 GND					VFD BY MECH
P-2	CIRC PUMP	MECHANICAL 122	2			480	3	1/2"C, 3 NO. 12, 1 NO. 12 GND			0	H-O-A	
P-3	CIRC PUMP	MECHANICAL 122	1-1/2			480	3	1/2"C, 3 NO. 12, 1 NO. 12 GND			0	H-O-A	
P-4A, 4B	CIRC PUMP	MECHANICAL 122	3			480	3	1/2"C, 3 NO. 12, 1 NO. 12 GND					VFD BY MECH
P-5	CIRC PUMP	MECHANICAL 302	1			480	3		30/3		0	H-O-A	
P-6	CIRC PUMP	MECHANICAL 301	1			480	3		30/3		0	H-O-A	
SP-1	SUMP PUMP	ELEVATOR SHAFT	1/2			120	1	1/2"C, 3 NO. 12, 1 NO. 12 GND					
DWH-1	DOMESTIC HOT WATER HEATER	MECHANICAL 122		30		480	3	3/4"C, 3 NO. 6, 1 NO. 10 GND					
GLYCOL	GLYCOL FEED SYSTEM	CRAWL SPACE	1/2			120	1	1/2"C, 2 NO. 12, 1 NO. 12 GND					
AHU-1 SF	AIR HANDLING UNIT, SUPPLY FAN	MECHANICAL 302	20			480	3	1"C, 3 NO. 4, 1 NO. 10 GND					VFD BY MECH
AHU-1 RF	AIR HANDLING UNIT, RETURN FAN	MECHANICAL 302	15			480	3	3/4"C, 3 NO. 8, 1 NO. 10 GND					VFD BY MECH
AHU-2 SF	AIR HANDLING UNIT, SUPPLY FAN	MECHANICAL 301	5			480	3	1/2"C, 3 NO. 12, 1 NO. 12 GND	30/3		0	H-O-A	
AHU-2 RF	AIR HANDLING UNIT, RETURN FAN	MECHANICAL 301	3			480	3	1/2"C, 3 NO. 12, 1 NO. 12 GND	30/3		0	H-O-A	
AHU-3 SF	AIR HANDLING UNIT, SUPPLY FAN	MECHANICAL 301	5			480	3	1/2"C, 3 NO. 12, 1 NO. 12 GND	30/3		0	H-O-A	
EF-1	EXHAUST FAN	MECHANICAL 302	1-1/2			480	3	1/2"C, 3 NO. 12, 1 NO. 12 GND	30/3		0	H-O-A	DISCONNECT BY MECH
EF-2	EXHAUST FAN	ROOF	1			480	3	1/2"C, 3 NO. 12, 1 NO. 12 GND	30/3		0	H-O-A	DISCONNECT BY MECH
EF-3	EXHAUST FAN	ROOF	3/4			480	3	1/2"C, 3 NO. 12, 1 NO. 12 GND	30/3				VFD PROVIDED W/ HOOD
EF-4	EXHAUST FAN	ELEV MACHINE ROOM			0.5	120	1	1/2"C, 2 NO. 12, 1 NO. 12 GND	$				
HP-1	HEAT PUMP	MULTI-MEDIA 201			17.7	208	3	1/2"C, 3 NO. 10, 1 NO. 10 GND	30/3				
HP-2	HEAT PUMP	ELECTRICAL 122A			17.7	208	3	1/2"C, 3 NO. 10, 1 NO. 10 GND	30/3				
HP-3	HEAT PUMP	MECHANICAL 122			17.7	208	3	1/2"C, 3 NO. 10, 1 NO. 10 GND	30/3				
HP-4	HEAT PUMP	ELECTRICAL 122A			16	208	1	1/2"C, 2 NO. 10, 1 NO. 10 GND	30/2				
HP-5	HEAT PUMP	MECHANICAL 302			16	208	1	1/2"C, 2 NO. 10, 1 NO. 10 GND	30/2				
CUH-1	CABINET UNIT HEATER	ENTRY ST-01, 231, 255	1/8			120	1	1/2"C, 2 NO. 12, 1 NO. 12 GND					DISCONNECT BY MECH
CUH-2	CABINET UNIT HEATER	ENTRY VEST 150, 152	1/8			120	1	1/2"C, 2 NO. 12, 1 NO. 12 GND					DISCONNECT BY MECH
UH	UNIT HEATER	CRAWL SPACE - EAST	1/8			120	1	1/2"C, 2 NO. 12, 1 NO. 12 GND					DISCONNECT BY MECH
UH	UNIT HEATER	CRAWL SPACE - WEST	1/8			120	1	1/2"C, 2 NO. 12, 1 NO. 12 GND					DISCONNECT BY MECH
UH	UNIT HEATER	MECHANICAL 302	1/8			120	1	1/2"C, 2 NO. 12, 1 NO. 12 GND					DISCONNECT BY MECH
UH	UNIT HEATER	MECHANICAL 301	1/8			120	1	1/2"C, 2 NO. 12, 1 NO. 12 GND					DISCONNECT BY MECH
AC-1	AIR COMPRESSOR	MECHANICAL 122	1/2			120	1	1/2"C, 2 NO. 12, 1 NO. 12 GND					

2

KITCHEN EQUIPMENT SCHEDULE

DESIGNATION			LOAD					CIRCUITING	DISCONNECT		CONTROL		
ITEM	DESCRIPTION	LOCATION	HP	KW	AMPS	VOLTS	PHASE	CONDUCTORS	SWITCH	FUSE	STARTER SIZE	CONTROL	REMARKS
3	FREEZER, REACH-IN	KITCHEN 136			7.2	115	1	1/2"C, 2 NO. 12, 1 NO. 12 GND					CORD & PLUG
4	REFRIGERATOR, REACH-IN	KITCHEN 136			7.2	115	1	1/2"C, 2 NO. 12, 1 NO. 12 GND					CORD & PLUG
5	DISPOSER	KITCHEN 136	1/2			120	1	1/2"C, 2 NO 12, 1 NO. 12 GND					CORD & PLUG
8	WAREWASHER, UNDERCOUNTER	KITCHEN 136			37.7	120/208	1	1"C, 4 NO. 6, 1 NO. 10 GND					
12	CONVECTION OVEN, ELEC - TOP	KITCHEN 136			34	120/208	3	1"C, 3 NO. 6, 1 NO. 10 GND					CORD & PLUG
	CONVECTION OVEN, ELEC - BOTTOM	KITCHEN 136			34	120/208	3	1"C, 3 NO. 6, 1 NO. 10 GND					CORD & PLUG
13	RANGE, ELEC	KITCHEN 136		15		208	3	1-1/2"C, 3 NO. 4, 1 NO. 10 GND					
14	EXHAUST HOOD, CLASS ONE	KITCHEN 136			15	120	1	1/2"C, 2 NO. 12, 1 NO. 12 GND					
17	PREP COUNTER WITH SINK	KITCHEN 136			20	120	1	1/2"C, 2 NO. 12, 1 NO. 12 GND					
20	MICROWAVE OVEN	KITCHEN 136			9.6	120	1	1/2"C, 2 NO. 12, 1 NO. 12 GND					CORD & PLUG
21	CASHIER STATION	COMMONS 133			15	120	1	1/2"C, 2 NO. 12, 1 NO. 12 GND					CORD & PLUG
22	MILK COOLER	COMMONS 133			8.9	120	1	1/2"C, 2 NO. 12, 1 NO. 12 GND					CORD & PLUG
23	HOT FOOD STATION	KITCHEN 136		3.0	25	120	1	1"C, 3 NO. 6, 1 NO. 10 GND					CORD & PLUG

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SIGNATURE
Jan 31, 2012

City and Borough of Juneau - Juneau School District

Auke Bay Elementary School Renovation

CBJ Project No. E12-042
Juneau, Alaska

ADDENDUM NO. 2

REVISIONS
2 January 31, 2012
1 .
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SHEET TITLE
SCHEDULES
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DATE: December 21, 2011
FILE: 10036

E405

PANEL H2A

SIZE: 225 AMPS | VOLTS/PHASE: 480Y/277V, 3 PH | MAIN: MLO | LOCATION: MECHANICAL 302 | MOUNT: SURFACE

CKT NO	DESCRIPTION	BREAKER AMP/POLE	KVA CKT	KVA AØ	KVA BØ	KVA CØ	KVA CKT	BREAKER AMP/POLE	DESCRIPTION	CKT NO
1	SPARE	20/1	0.0	7.5			7.5	60/3	AHU-1 SUPPLY FAN (SF)	2
3		20/1	0.0		7.5		7.5	--	----	4
5		20/1	0.0			7.5	7.5	--	----	6
7		20/1	0.0	5.3			5.3	40/3	AHU-1 RETURN FAN (RF)	8
9		20/1	0.0		5.3		5.3	--	----	10
11		20/1	0.0			5.3	5.3	--	----	12
13		20/1	0.0	0.8			0.8	15/3	EXHAUST FAN EF-1	14
15		20/1	0.0		0.8		0.8	--	----	16
17		20/1	0.0			0.8	0.8	--	----	18
19		20/1	0.0	0.6			0.6	15/3	PUMP P-5	20
21		20/1	0.0		0.6		0.6	--	----	22
23		20/1	0.0			0.6	0.6	--	----	24
25		20/1	0.0	0.0			0.0	20/1	SPARE	26
27		20/1	0.0		0.0		0.0	20/1		28
29		20/1	0.0			0.0	0.0	20/1		30
31		20/1	0.0	0.0			0.0	20/1		32
33		20/1	0.0		0.0		0.0	20/1		34
35		20/1	0.0			0.0	0.0	20/1		36
37	XFMR L2A	110/3	18.4	18.4			0.0	20/1		38
39	----	--	20.0		20.0		0.0	20/1		40
41	----	--	17.5			17.5	0.0	20/1		42
BALANCED CONNECTED LOAD: 98.5 KVA / 118.7 AMPS				32.6	34.2	31.7				
MAXIMUM CONNECTED LOAD: 98.5 KVA / 117.7 AMPS										

PANEL H2B

SIZE: 225 AMPS | VOLTS/PHASE: 480Y/277V, 3 PH | MAIN: MLO | LOCATION: MECHANICAL 301 | MOUNT: SURFACE

CKT NO	DESCRIPTION	BREAKER AMP/POLE	KVA CKT	KVA AØ	KVA BØ	KVA CØ	KVA CKT	BREAKER AMP/POLE	DESCRIPTION	CKT NO
1	SPARE	20/1	0.0	2.1			2.1	15/3	AHU-2 SUPPLY FAN (SF)	2
3		20/1	0.0		2.1		2.1	--	----	4
5		20/1	0.0			2.1	2.1	--	----	6
7		20/1	0.0	1.3			1.3	15/3	AHU-2 RETURN FAN (RF)	8
9		20/1	0.0		1.3		1.3	--	----	10
11		20/1	0.0			1.3	1.3	--	----	12
13		20/1	0.0	2.1			2.1	15/3	AHU-3	14
15		20/1	0.0		2.1		2.1	--	----	16
17		20/1	0.0			2.1	2.1	--	----	18
19		20/1	0.0	0.6			0.6	15/3	PUMP P-6	20
21		20/1	0.0		0.6		0.6	--	----	22
23		20/1	0.0			0.6	0.6	--	----	24
25		20/1	0.0	11.0			11.0	80/3	ELEVATOR	26 *
27		20/1	0.0		11.0		11.0	--	----	28
29		20/1	0.0			11.0	11.0	--	----	30
31		20/1	0.0	0.0			0.0	20/1	SPARE	32
33		20/1	0.0		0.0		0.0	20/1		34
35		20/1	0.0			0.0	0.0	20/1		36
37	XFMR L2B	110/3	15.2	15.2			0.0	20/1		38
39	----	--	12.9		12.9		0.0	20/1		40
41	----	--	10.4			10.4	0.0	20/1		42
BALANCED CONNECTED LOAD: 89.8 KVA / 108.2 AMPS				32.3	30.0	27.5				
MAXIMUM CONNECTED LOAD: 89.8 KVA / 116.6 AMPS										

* PROVIDE SHUNT TRIP CIRCUIT BREAKER.

PANEL H1A

SIZE: 400 AMPS | VOLTS/PHASE: 480Y/277V, 3 PH | MAIN: MLO | LOCATION: MECHANICAL 122 | MOUNT: SURFACE

CKT NO	DESCRIPTION	BREAKER AMP/POLE	KVA CKT	KVA AØ	KVA BØ	KVA CØ	KVA CKT	BREAKER AMP/POLE	DESCRIPTION	CKT NO
1	SPARE	20/1	0.0	5.8			5.8	40/3	PUMP P-1A	2
3		20/1	0.0		5.8		5.8	--	----	4
5		20/1	0.0			5.8	5.8	--	----	6
7		20/1	0.0	5.8			5.8	40/3	PUMP P1-B	8
9		20/1	0.0		5.8		5.8	--	----	10
11		20/1	0.0			5.8	5.8	--	----	12
13		20/1	0.0	1.3			1.3	15/3	PUMP P-4A	14
15		20/1	0.0		1.3		1.3	--	----	16
17		20/1	0.0			1.3	1.3	--	----	18
19		20/1	0.0	1.3			1.3	15/3	PUMP P-4B	20
21		20/1	0.0		1.3		1.3	--	----	22
23		20/1	0.0			1.3	1.3	--	----	24
25		20/1	0.0	0.9			0.9	15/3	PUMP P-2	26
27		20/1	0.0		0.9		0.9	--	----	28
29		20/1	0.0			0.9	0.9	--	----	30
31		20/1	0.0	0.8			0.8	15/3	PUMP P-3	32
33		20/1	0.0		0.8		0.8	--	----	34
35		20/1	0.0			0.8	0.8	--	----	36
37	XFMR L1A	225/3	58.8	58.8			0.0	20/1	SPARE	38
39	----	--	55.6		55.6		0.0	20/1		40
41	----	--	54.0			54.0	0.0	20/1		42
BALANCED CONNECTED LOAD: 216.1 KVA / 260.4 AMPS				74.7	71.5	69.9				
MAXIMUM CONNECTED LOAD: 216.1 KVA / 269.7 AMPS										

PANEL L1A

SIZE: 225 AMPS | VOLTS/PHASE: 208Y/120V, 3 PH | MAIN: 500/3 | LOCATION: MECHANICAL 122 | MOUNT: SURFACE

CKT NO	DESCRIPTION	BREAKER AMP/POLE	KVA CKT	KVA AØ	KVA BØ	KVA CØ	KVA CKT	BREAKER AMP/POLE	DESCRIPTION	CKT NO
1	ENT 152, LOBBY 153, CORR 155, VEST 156 LTG	20/1	1.2	1.9			0.7	20/1	CLASSROOM 109 (D)	2
3	CORRIDOR 155, VEST 158	20/1	0.5		2.3		1.8	20/1	CLASSROOM 109	4
5	STAIR ST01, CORRIDOR 252	20/1	1.5			2.2	0.7	20/1	CLASSROOM 110	6
7	CORRIDOR 255, CORRIDOR 231	20/1	1.4	3.2			1.8	20/1	CLASSROOM 110	8
9	CORRIDOR 253, CORRIDOR 257, STAIR ST02	20/1	0.8		1.5		0.7	20/1	CLASSROOM 115	10
11	CRAWL, MECH 122, ELEC 122A, RMS 106A,B,C	20/1	1.2			3.0	1.8	20/1	CLASSROOM 115	12
13	RMS 111,112,113,114,117,119,121,123	20/1	1.2	1.6			0.4	20/1	CLASSROOM 116	14
15	CLASSROOM 120	20/1	0.9		2.7		1.8	20/1	CLASSROOM 116	16
17	CLASSROOM 118	20/1	0.9			1.6	0.7	20/1	CLASSROOM 118	18
19	CLASSROOM 116	20/1	1.1	2.9			1.8	20/1	CLASSROOM 118	20
21	CLASSROOM 115	20/1	1.1		1.8		0.7	20/1	CLASSROOM 120	22
23	CLASSROOM 110	20/1	1.1			2.9	1.8	20/1	CLASSROOM 120	24
25	CLASSROOM 109	20/1	1.1	1.8			0.7	20/1	JAN 123, VEST 158, CORR 155	26
27	EXTERIOR BUILDING MOUNTED	20/1	0.5		1.7		1.2	20/1	WASHER LAUNDRY 114	28
29	EXTERIOR ENTRY CANOPY, POST MOUNT	20/1	0.2			0.9	0.7	20/1	GIRLS 112, BOYS 113, KILN 119	30
31	EXTERIOR PARKING	20/1	0.7	3.2			2.5	30/2	COPY MACHINE WORK ROOM 117 (P)	32
33	FUTURE EXTERIOR SIGN	20/1	0.2		2.7		2.5	--	----	34
35	CRAWL SPACE UNIT HEATER	20/1	0.2			2.7	2.5	30/2	COPY MACHINE WORK ROOM 117 (P)	36
37	ELECTRICAL 122A (D)	20/1	0.9	3.4			2.5	--	----	38
39	ELECTRICAL 122A (D)	20/1	0.9		1.4		0.5	20/1	WORK ROOM 117 (D)	40
41	ELECTRICAL 122A DATA RACK	20/1	1.0			1.5	0.5	20/1	WORK ROOM 117	42
43	ELECTRICAL 122A DATA RACK	20/1	1.0	1.4			0.4	20/1	WORK ROOM 117	44
45	ELECTRICAL 122A UPS	30/2	2.0		4.5		2.5	20/1	DRYER LAUNDRY 114 (P)	46
47	----	--	2.0			4.5	2.5	20/1	----	48
49	KILN 119	50/2	5.8	6.9			1.1	20/1	GYMNASIUM 106 (D)	50
51	----	--	5.8		6.9		1.1	20/1	GYMNASIUM 106	52
53	AUDIO RACK	20/2	1.5			2.4	0.9	20/1	GYMNASIUM 106	54
55	----	--	1.5	1.8			0.3	20/1	PROJECTION SCREEN GYMNASIUM 106	56
57	SPARE	20/1	0.0		0.9		0.9	20/1	PE 106A (D)	58
59		20/1	0.0			0.5	0.5	20/1	STORAGE 106B, 106C (D)	60
61		20/1	0.0	1.6			1.6	20/1	MECHANICAL 122	62
63		20/1	0.0		0.4		0.4	20/1	HWRP-1	64
65		20/1	0.0			0.5	0.5	20/1	GSHP CONTROL POWER	66
67		20/1	0.0	1.0			1.0	20/1	MECHANICAL CONTROL PANELS	68
69		20/1	0.0		0.5		0.5	20/1	LIGHTING CONTROL PANEL (LCP)	70
71		20/1	0.0			2.1	2.1	30/3	HP-2	72
73	PANEL L1B	100/3	3.6	5.7			2.1	--	----	74
75	----	--	4.5		6.6		2.1	--	----	76
77	----	--	4.4			6.5	2.1	30/3	HP-3	78
79	PANEL L1C	225/3	30.7	32.8			2.1	--	----	80
81	----	--	29.5		31.6		2.1	--	----	82
83	----	--	28.3			29.5	1.2	20/1	AC-1	84
BALANCED CONNECTED LOAD: 195.5 KVA / 543.1 AMPS				69.2	65.5	60.8				
MAXIMUM CONNECTED LOAD: 195.5 KVA / 576.7 AMPS										

(2)

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STATE OF ALASKA
49th
Barry J. Segerquist
LE 10453
REGISTERED PROFESSIONAL ENGINEER
SIGNATURE
Jan 31, 2012

City and Borough of Juneau - Juneau School District

Auke Bay Elementary School Renovation

CBJ Project No. E12-042
Juneau, Alaska

ADDENDUM NO. 2

REVISIONS
(2) January 31, 2012
(1) .
(0) .

SHEET TITLE
SCHEDULES
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DATE: December 21, 2011
FILE: 10036

E406

PANEL L2A

SIZE	VOLTS/PHASE	MAIN	LOCATION	MOUNT
400 AMPS	208Y/120V, 3 PH	250/3	MECHANICAL 302	SURFACE

CKT NO	DESCRIPTION	BREAKER AMP/POLE	KVA CKT	KVA AØ	KVA BØ	KVA CØ	KVA CKT	BREAKER AMP/POLE	DESCRIPTION	CKT NO
1	CLASSROOM 210 LTG	20/1	1.1	1.8			0.7	20/1	CLASSROOM 207	2
3	CLASSROOM 211	20/1	1.1		2.9		1.8	20/1	CLASSROOM 207	4
5	CLASSROOM 212, T.R. 212A, TIME OUT 212B	20/1	1.0			1.7	0.7	20/1	CLASSROOM 208	6
7	CLASSROOM 221, T.R. 221A	20/1	0.9	2.7			1.8	20/1	CLASSROOM 208	8
9	CLASSROOM 222	20/1	1.1		1.8		0.7	20/1	CLASSROOM 209	10
11	CLASSROOM 223	20/1	1.1			2.9	1.8	20/1	CLASSROOM 209	12
13	ROOMS 219, 220, 224, 225	20/1	0.8	1.5			0.7	20/1	CLASSROOM 210	14
15	ELEC 213, FLEX 214, RESTRMS 215–218	20/1	1.0		2.8		1.8	20/1	CLASSROOM 210	16
17	CLASSROOM 208	20/1	1.1			1.8	0.7	20/1	CLASSROOM 211	18
19	CLASSROOM 209	20/1	1.1	2.9			1.8	20/1	CLASSROOM 211	20
21	CLASSROOM 226	20/1	1.1		1.8		0.7	20/1	CLASSROOM 212	22
23	CLASSROOM 227	20/1	1.1			2.9	1.8	20/1	CLASSROOM 212	24
25	EXTENDED LEARNING 228	20/1	0.7	1.4			0.7	20/1	CLASSROOM 221	26
27	GYMNASIUM 106	20/1	1.3		3.1		1.8	20/1	CLASSROOM 221	28
29	GYMNASIUM 106	20/1	1.3			2.0	0.7	20/1	CLASSROOM 222	30
31	GYMNASIUM 106	20/1	1.3	3.1			1.8	20/1	CLASSROOM 222	32
33	GYMNASIUM 106	20/1	1.3		2.0		0.7	20/1	CLASSROOM 223	34
35	GYMNASIUM 106	20/1	1.3			3.1	1.8	20/1	CLASSROOM 223	36
37	GYMNASIUM 106	20/1	1.3	2.2			0.9	20/1	EXTENDED LEARNING 228	38
39	GYMNASIUM 106	20/1	1.3		1.8		0.5	20/1	EXTENDED LEARNING 228	40
41	MECHANICAL 302	20/1	0.3			1.0	0.7	20/1	CLASSROOM 227	42
43	AHU–1 CONTROL POWER/LIGHTING	20/1	0.2	2.0			1.8	20/1	CLASSROOM 227	44
45	MECHANICAL 302 UNIT HEATER	20/1	1.1		1.8		0.7	20/1	CLASSROOM 226	46
47	MECHANICAL CONTROL PANEL	20/1	0.5			2.3	1.8	20/1	CLASSROOM 226	48
49	MECHANICAL CONTROL PANEL	20/1	0.5	1.2			0.7	20/1	CORR 252, CORR 253	50
51	HP–5	30/2	1.7		2.6		0.9	20/1	FLEX ROOM 214	52
53	---	--	1.7			2.8	1.1	20/1	FLEX ROOM 214	54
55	SPARE	20/1	0.0	1.1			1.1	20/1	READING BASE 225	56
57		20/1	0.0		1.3		1.3	20/1	NAT. STD. COUN. 224	58
59		20/1	0.0			0.4	0.4	20/1	GIRLS 216, BOYS 217	60
61		20/1	0.0	0.4			0.4	20/1	STAFF T. 215, STAFF T. 218	62
63		20/1	0.0		0.7		0.7	20/1	OFFICE 259	64
65		20/1	0.0			0.7	0.7	20/1	SPEECH ESL 220	66
67		20/1	0.0	0.5			0.5	20/1	T.R. 212A, T.R. 221A	68
69		20/1	0.0		0.9		0.9	20/1	JAN 219, CORR 255	70
71		20/1	0.0			1.1	1.1	20/1	ELECTRICAL 213	72
73		20/1	0.0	0.5			0.5	20/1	ELECTRICAL 213 DOOR ACCESS SYSTEM	74
75		20/1	0.0		1.0		1.0	20/1	ELECTRICAL 213 FACP	76
77		20/1	0.0			1.0	1.0	20/1	ELECTRICAL 213 DATA RACK	78
79		20/1	0.0	1.0			1.0	20/1	ELECTRICAL 213 DATA RACK	80
81		20/1	0.0		2.0		2.0	30/2	ELECTRICAL 213 UPS	82
83		20/1	0.0			2.0	2.0	--	----	84
BALANCED CONNECTED LOAD: 74.5 KVA / 206.9 AMPS				22.3	26.5	25.7				
MAXIMUM CONNECTED LOAD: 74.5 KVA / 185.8 AMPS										

PANEL L2B

SIZE	VOLTS/PHASE	MAIN	LOCATION	MOUNT
400 AMPS	208Y/120V, 3 PH	250/3	MECHANICAL 301	SURFACE

CKT NO	DESCRIPTION	BREAKER AMP/POLE	KVA CKT	KVA AØ	KVA BØ	KVA CØ	KVA CKT	BREAKER AMP/POLE	DESCRIPTION	CKT NO
1	CLASSROOM 207 LTG	20/1	1.1	2.0			0.9	20/1	CORR 231, CORR 255	2
3	STAFF LOUNGE 206	20/1	0.6		1.0		0.4	20/1	BOYS 202, GIRLS 203	4
5	MUSIC 205, MECH 258	20/1	1.0			2.3	1.3	20/1	CORR 252, CORR 257	6
7	RESOURCE 204, GIRLS 203, BOYS 202	20/1	0.7	1.2			0.5	20/1	RESOURCE 204	8
9	MULTI–MEDIA 201	20/1	1.1		1.5		0.4	20/1	RESOURCE 204	10
11	LIBRARY 200 PENDANT MOUNTED	20/1	1.1			1.8	0.7	20/1	RESOURCE 204	12
13	LIBRARY 200 PENDANT MOUNTED	20/1	1.2	2.5			1.3	20/1	MUSIC 205	14
15	LIBRARY 200 LED COVE, DECOR. PENDANT	20/1	0.7		2.1		1.4	20/1	MUSIC 205	16
17	CONF 200A, OFFICE/WORK 200B, STOR 200C	20/1	0.6			1.3	0.7	20/1	STAFF LOUNGE 206	18
19	MECHANICAL 301, ELEVATOR MACHINE ROOM	20/1	0.3	0.7			0.4	20/1	STAFF LOUNGE 206 COUNTER	20
21	SPARE	20/1	0.0		0.3		0.3	20/1	STAFF LOUNGE 206 COUNTER & HOOD	22
23	STAFF LOUNGE 206 MICROWAVE	20/1	1.0			1.6	0.6	20/1	STAFF LOUNGE 206 REF, & CONVENIENCE	24
25	SPARE	20/1	0.0	4.0			4.0	50/2	STAFF LOUNGE 206 RANGE	26
27		20/1	0.0		4.0		4.0	--	----	28
29		20/1	0.0			0.7	0.7	20/1	MECHANICAL 301	30
31		20/1	0.0	1.0			1.0	20/1	AHU–2 & 3 CONTROL POWER/LIGHTING	32
33		20/1	0.0		0.5		0.5	20/1	MECHANICAL CONTROL PANELS	34
35		20/1	0.0			0.2	0.2	20/1	MECHANICAL 301 UNIT HEATER	36
37	PANEL L2C	225/3	7.1	7.6			0.5	20/1	ELEVATOR CAR POWER & LIGHTING	38
39	----	--	9.2		9.4		0.2	20/1	ELEVATOR MACHINE ROOM	40
41	----	--	6.9			6.9	0.0	20/1	SPARE	42
BALANCED CONNECTED LOAD: 52.6 KVA / 146.1 AMPS				19.0	18.8	14.8				
MAXIMUM CONNECTED LOAD: 52.6 KVA / 158.3 AMPS										

PANEL L1B

SIZE	VOLTS/PHASE	MAIN	LOCATION	MOUNT
100 AMPS	208Y/120V, 3 PH	MLO	RECEPTION 103	FLUSH

CKT NO	DESCRIPTION	BREAKER AMP/POLE	KVA CKT	KVA AØ	KVA BØ	KVA CØ	KVA CKT	BREAKER AMP/POLE	DESCRIPTION	CKT NO
1	REC 107, PRIN 107A, NUR 107B, CONF 108 LTG	20/1	1.3	3.1			1.8	20/1	NURSE 107B, EXTERIOR	2
3	AUDIO RACK	20/2	1.5		2.0		0.5	20/1	T.R. 107D, CORR, STOR 108A	4
5	----	--	1.5			2.2	0.7	20/1	CONFERENCE 108	6
7	SPARE	20/1	0.0	0.5			0.5	20/1	CONFERENCE 108	8
9		20/1	0.0		2.5		2.5	30/2	COPY MACHINE – RECEPTION 107	10
11		20/1	0.0			2.5	2.5	--	----	12
13		20/1	0.0	0.7			0.7	20/1	RECEPTION 107	14
15		20/1	0.0		1.1		1.1	20/1	PRINCIPAL 107A	16
17		20/1	0.0			0.7	0.7	20/1	RECEPTION 107	18
19		20/1	0.0	0.4			0.4	20/1	RECEPTION 107	20
21		20/1	0.0		0.4		0.4	20/1	CAMERA HEATER, EXTERIOR, ENTRY 152	22
23		20/1	0.0			0.5	0.5	20/1	DOOR OPERATOR	24
25		20/1	0.0	0.8			0.8	20/1	RECEPTION 107 COILING DOOR	26
27		20/1	0.0		0.9		0.9	20/2	HEAT TRACE	28
29		20/1	0.0			0.9	0.9	--	----	30
31		20/1	0.0	0.0			0.0	20/1	SPARE	32
33		20/1	0.0		0.0		0.0	20/1		34
35		20/1	0.0			0.0	0.0	20/1		36
37		20/1	0.0	0.0			0.0	20/1		38
39		20/1	0.0		0.0		0.0	20/1		40
41		20/1	0.0			0.0	0.0	20/1		42
BALANCED CONNECTED LOAD: 19.2 KVA / 53.3 AMPS				5.5	6.9	6.8				
MAXIMUM CONNECTED LOAD: 19.2 KVA / 45.8 AMPS										

PANEL L1C

SIZE	VOLTS/PHASE	MAIN	LOCATION	MOUNT
225 AMPS	208Y/120V, 3 PH	MLO	VESTIBULE 150	FLUSH

CKT NO	DESCRIPTION	BREAKER AMP/POLE	KVA CKT	KVA AØ	KVA BØ	KVA CØ	KVA CKT	BREAKER AMP/POLE	DESCRIPTION	CKT NO
1	KITCHEN 104, STOR 105A, 105B, VEST 150 LTG	20/1	1.0	2.4			1.4	20/1	RALLY 100	2
3	RALLY 100, CRAWL SPACE	20/1	0.9		1.4		0.5	20/1	RALLY 100	4
5	MULTI–PURPOSE COMMONS 105 NORTH	20/1	1.2			1.6	0.4	20/1	GIRLS 102, BOYS 103	6
7	MULTI–PURPOSE COMMONS 105 SOUTH	20/1	1.1	1.9			0.8	20/1	JAN. 101, VEST 150, CAMERA HEAT, EXTERIOR	8
* 9	KITCHEN 104 CONVECTION OVEN (12)	50/3	4.0		4.4		0.4	20/1	MULTI–PURPOSE COMMONS 105	10
11	----	--	4.0			4.5	0.5	20/1	MULTI–PURPOSE COMMONS 105	12
13	----	--	4.0	4.4			0.4	20/1	MULTI–PURPOSE COMMONS 105	14
* 15	KITCHEN 104 CONVECTION OVEN (12)	50/3	4.0		4.9		0.9	20/1	MULTI–PURPOSE COMMONS 105	16
17	----	--	4.0			4.2	0.2	20/1	ELEV SHAFT 154	18
19	----	--	4.0	5.2			1.2	20/1	SUMP PUMP ELEV SHAFT 154	20
* 21	KITCHEN 104 ELECTRIC RANGE (13)	60/3	5.0		5.4		0.4	20/1	SERVING MULTI–PURPOSE COMMONS 105	22
23	----	--	5.0			5.4	0.4	20/1	SERVING MULTI–PURPOSE COMMONS 105	24
25	----	--	5.0	6.0			1.0	20/1	MILK COOLER MULTI–PURPOSE COMMONS 105	26
27	KITCHEN 104 WAREWASHER (8)	50/3	2.6		4.4		1.8	20/1	CASHIER STA. MULTI–PURPOSE COMMONS 105	28
29	----	--	2.6			2.8	0.2	20/1	KITCHEN 104 HOOD LIGHTING	30
31	----	--	2.6	2.8			0.2	20/1	KITCHEN 104 COUNTER	32
33	KITCHEN 104	20/1	0.4		1.6		1.2	20/1	KITCHEN 104 MICROWAVE OVEN (20)	34
35	KITCHEN 104 FREEZER (3)	20/1	0.9			2.0	1.1	20/1	KITCHEN 104 CASHIER STATION (22)	36
37	KITCHEN 104 REFRIGERATOR (4)	20/1	0.9	2.7			1.8	20/1	KITCHEN 104 HOOD	38
39	KITCHEN 104 HOT FOOD STATION (23)	50/2	1.5		3.3		1.8	20/1	KITCHEN 104 FIRE SUPPRESSION SYSTEM	40
41	----	--	1.5			1.7	0.2	20/1	CRAWL SPACE UNIT HEATER	42
43	SPARE	20/1	0.0	1.7			1.7	30/2	CRAWL SPACE HP–4	44
45		20/1	0.0		1.7		1.7	--	----	46
47		20/1	0.0			0.0	0.0	20/1	SPARE	48
49		20/1	0.0	1.2			1.2	20/1	KITCHEN 104 DISPOSER	50
51		20/1	0.0		0.8		0.8	20/1	KITCHEN 104 COILING DOOR	52
53		20/1	0.0			0.4	0.4	15/3	EF–3	54
55		20/1	0.0	0.4			0.4	--	---	56
57		20/1	0.0		0.4		0.4	--	---	58
59		20/1	0.0			0.6	0.6	15/3	EF–2	60
61		20/1	0.0	0.6			0.6	--	---	62
63	COVERED PLAY AREA	20/1	0.4		1.0		0.6	--	---	64
65	COVERED PLAY AREA a LTG	20/1	1.8			3.9	2.1	30/3	HP–1	66
67	COVERED PLAY AREA b	20/1	1.8	3.9			2.1	--	---	68
69	COVERED PLAY AREA c	20/1	1.8		3.9		2.1	--	---	70
71	COVERED PLAY AREA d,f	20/1	1.8			1.8	0.0	20/1	SPARE	72
BALANCED CONNECTED LOAD: 95.3 KVA / 264.7 AMPS				33.2	33.2	28.9				
MAXIMUM CONNECTED LOAD: 95.3 KVA / 276.7 AMPS										

* PROVIDE SHUNT TRIP CIRCUIT BREAKER. CONNECT TO NO CONTACTS IN FIRE SUPPRESSION PANEL. SEE DETAIL 3, E404.

2

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Jan 31, 2012

City and Borough of Juneau - Juneau School District

Auke Bay Elementary School Renovation

CBJ Project No. E12-042
Juneau, Alaska

ADDENDUM NO. 2

REVISIONS
2 January 31, 2012
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. .

SHEET TITLE
SCHEDULES
. .
. .

DATE: December 21, 2011
FILE: 10036

E407

ASBESTOS WORK THIS SHEET

A1. REMOVE AND DISPOSE OF ACM VAT/MASTIC IN EAST AND WEST STAIR LANDINGS AND AREA UNDER STAIRS (BETWEEN GRID LINES 9&10), WEST HALF OF ENTRY VESTIBULE 101, TOILET ROOM VESTIBULE, STORAGE 125, HALL 126, CUSTODIAL 128 AND VESTIBULE 129, AS INDICATED, DOWN TO CLEAN CONCRETE.

A2. REMOVE AND DISPOSE OF ACM VAT/MASTIC IN EAST HALF OF ENTRY VESTIBULE 101, STORAGE 134 AND NURSE 137 AS INDICATED DOWN TO CLEAN CONCRETE.

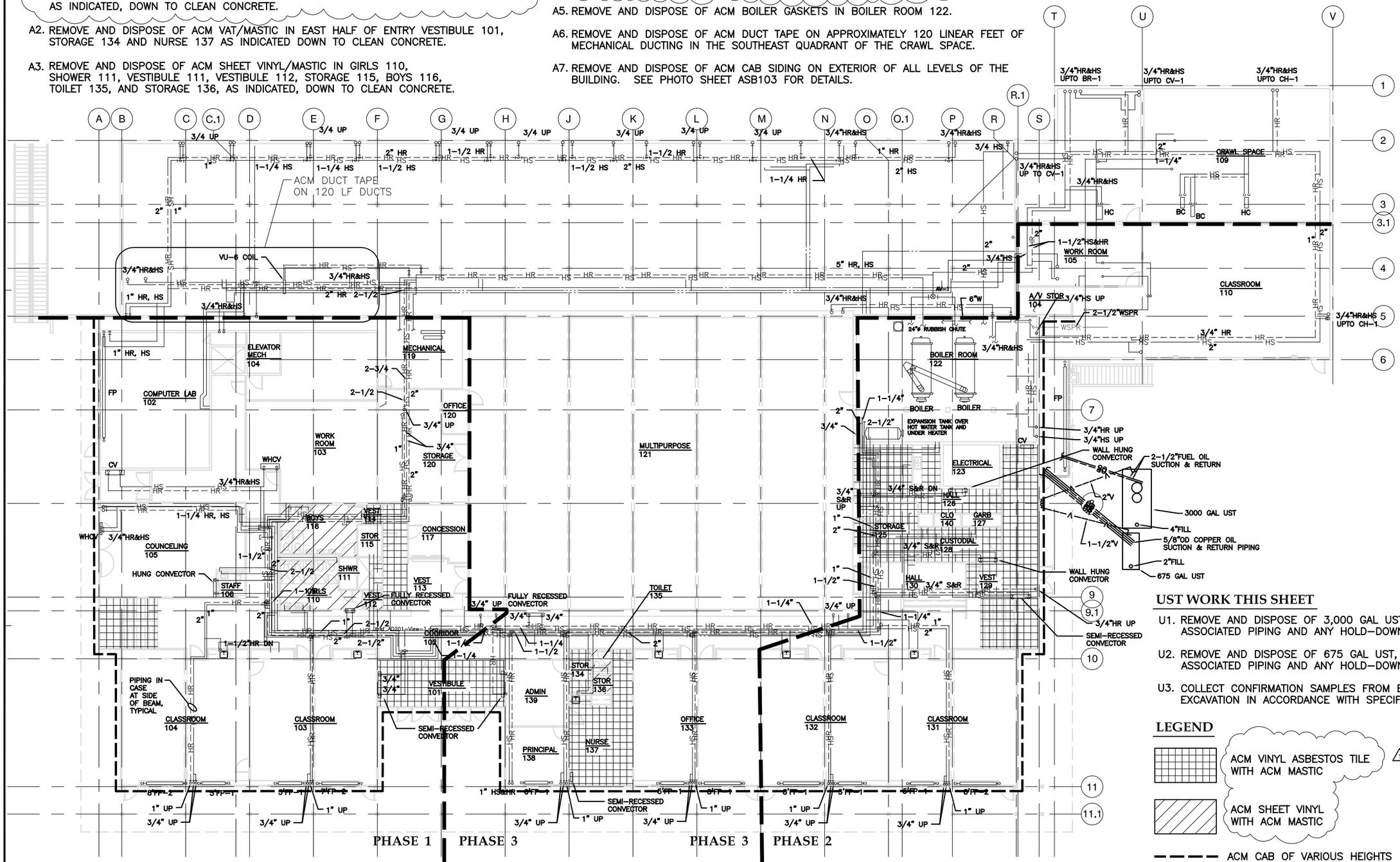
A3. REMOVE AND DISPOSE OF ACM SHEET VINYL/MASTIC IN GIRLS 110, SHOWER 111, VESTIBULE 111, VESTIBULE 112, STORAGE 115, BOYS 116, TOILET 135, AND STORAGE 136, AS INDICATED, DOWN TO CLEAN CONCRETE.

A4. REMOVE AND DISPOSE OF ACM FITTING TSI ON HEATING SUPPLY OR RETURN PIPING AND ON DOMESTIC SUPPLY PIPING IN WALLS AND CEILINGS AS INDICATED. DEMOLISH WALL & CEILING FINISHES AS NECESSARY TO ACCESS FITTINGS. COORDINATE ALL DEMOLITION WITH GENERAL CONTRACTOR.

A5. REMOVE AND DISPOSE OF ACM BOILER GASKETS IN BOILER ROOM 122.

A6. REMOVE AND DISPOSE OF ACM DUCT TAPE ON APPROXIMATELY 120 LINEAR FEET OF MECHANICAL DUCTING IN THE SOUTHEAST QUADRANT OF THE CRAWL SPACE.

A7. REMOVE AND DISPOSE OF ACM CAB SIDING ON EXTERIOR OF ALL LEVELS OF THE BUILDING. SEE PHOTO SHEET ASB103 FOR DETAILS.



UST WORK THIS SHEET

U1. REMOVE AND DISPOSE OF 3,000 GAL UST, ALL ASSOCIATED PIPING AND ANY HOLD-DOWN BALLAST.

U2. REMOVE AND DISPOSE OF 675 GAL UST, ALL ASSOCIATED PIPING AND ANY HOLD-DOWN BALLAST.

U3. COLLECT CONFIRMATION SAMPLES FROM EACH TANK EXCAVATION IN ACCORDANCE WITH SPECIFICATIONS.

LEGEND

ACM VINYL ASBESTOS TILE WITH ACM MASTIC

ACM SHEET VINYL WITH ACM MASTIC

ACM CAB OF VARIOUS HEIGHTS ON WALLS

LEAD WORK THIS SHEET

L1. REMOVE AND DISPOSE OF ENAMELED IRON SINKS THROUGHOUT THE BUILDING.

L2. REMOVE AND DISPOSE OF 4"x4" GLAZED CERAMIC TILE IN GIRLS TOILET ROOM 110, SHOWER 111, AND STOR 115.

L3. REMOVE AND DISPOSE OF ALL GREEN CHALK BOARDS. ASSUME EACH CLASSROOM CONTAINS A 12' X 4' CHALK BOARD COVERED BY A WHITE BOARD OR PIN BOARD. SEVERAL CLASSROOMS CONTAIN AN ADDITIONAL 20'X4'CHALK BOARD.

L4. REMOVE AND DISPOSE OF ALL BROWN EXTERIOR WINDOW AND DOOR TRIM (MULLIONS, CASINGS AND BATTENS). WINDOW SASHES DO NOT CONTAIN LEAD. SEE PHOTO SHEET ASB103 FOR DETAILS.

1 OVERALL FIRST FLOOR PLAN

SCALE: 0 2' 4' 8' 16'

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Cert. No. 113472 Sigrid K. Dahlberg Exp 9/14/12 CERTIFIED PROJECT DESIGNER

City and Borough of Juneau - Juneau School District

Auke Bay Elementary School Renovation

CBJ Project No. E12-042
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ADDENDUM NO. 2

REVISIONS
1 January 31, 2012
2 .
3 .

SHEET TITLE
OVERALL FIRST FLOOR PLAN
.

DATE: January 31, 2012
FILE: 10036

ASB101
ADDENDUM 2

ASBESTOS WORK THIS SHEET

A1. REMOVE AND DISPOSE OF ACM VAT/MASTIC OVER WOOD IN WORK ROOM 221, TEACHERS 224, MEN 225, WOMEN 226, AND VESTIBULE 244, AS INDICATED, DOWN TO CLEAN SUBSTRATE. SUBFLOORS MAY BE REMOVED IN AREAS LACKING UNDERLAYMENT.

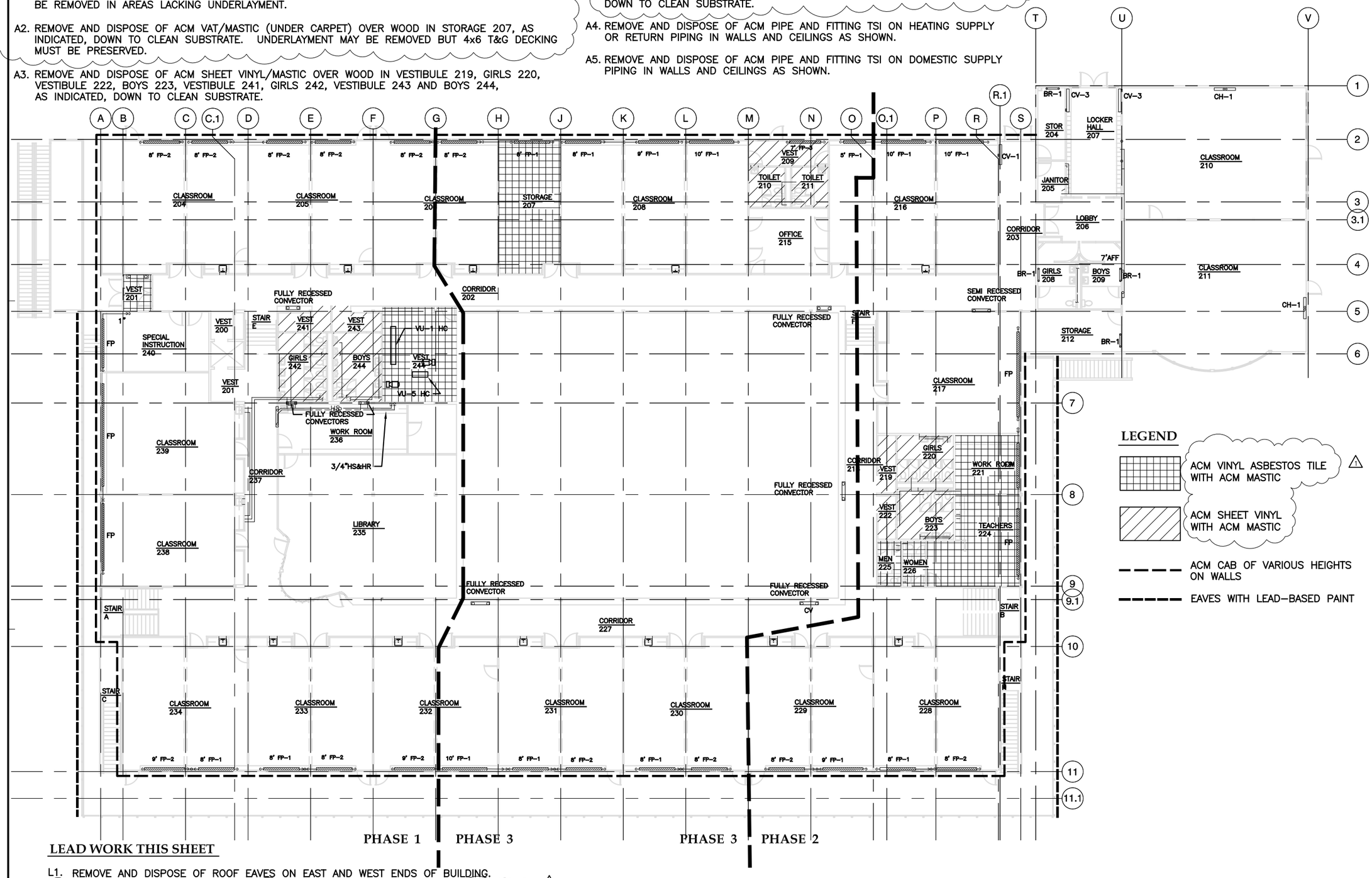
A2. REMOVE AND DISPOSE OF ACM VAT/MASTIC (UNDER CARPET) OVER WOOD IN STORAGE 207, AS INDICATED, DOWN TO CLEAN SUBSTRATE. UNDERLAYMENT MAY BE REMOVED BUT 4x6 T&G DECKING MUST BE PRESERVED.

A3. REMOVE AND DISPOSE OF ACM SHEET VINYL/MASTIC OVER WOOD IN VESTIBULE 219, GIRLS 220, VESTIBULE 222, BOYS 223, VESTIBULE 241, GIRLS 242, VESTIBULE 243 AND BOYS 244, AS INDICATED, DOWN TO CLEAN SUBSTRATE.

A3. REMOVE AND DISPOSE OF ACM SHEET VINYL/MASTIC UNDER NEWER SHEET VINYL OVER WOOD IN VESTIBULE 209, TOILET 210 AND TOILET 211, AS INDICATED, DOWN TO CLEAN SUBSTRATE.

A4. REMOVE AND DISPOSE OF ACM PIPE AND FITTING TSI ON HEATING SUPPLY OR RETURN PIPING IN WALLS AND CEILINGS AS SHOWN.

A5. REMOVE AND DISPOSE OF ACM PIPE AND FITTING TSI ON DOMESTIC SUPPLY PIPING IN WALLS AND CEILINGS AS SHOWN.



LEGEND

- ACM VINYL ASBESTOS TILE WITH ACM MASTIC
- ACM SHEET VINYL WITH ACM MASTIC
- ACM CAB OF VARIOUS HEIGHTS ON WALLS
- EAVES WITH LEAD-BASED PAINT

LEAD WORK THIS SHEET

L1. REMOVE AND DISPOSE OF ROOF EAVES ON EAST AND WEST ENDS OF BUILDING.

L2. REMOVE AND DISPOSE OF BROWN EXTERIOR WINDOW TRIM PIECES (MULLIONS, CASINGS AND BATTENS) ON ALL SIDES OF BUILDING. SEE PHOTO SHEET ASB103 FOR DETAILS.

L3. REMOVE AND DISPOSE OF GREEN CHALK BOARDS.
ASSUME EACH CLASSROOM CONTAINS A 12'X4' CHALK BOARD COVERED WITH A WHITE BOARD OR PIN BOARD. SEVERAL CLASSROOMS CONTAIN AN ADDITIONAL 20'X4' CHALK BOARD.

2 OVERALL SECOND FLOOR PLAN

SCALE: 0 2' 4' 8' 16'

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Cert. No. 113472
Sigrid K. Dahlberg
Exp 9/14/12
CERTIFIED PROJECT DESIGNER

City and Borough of Juneau - Juneau School District

Auke Bay Elementary School Renovation

CBJ Project No. E12-042
Juneau, Alaska

ADDENDUM NO. 2

REVISIONS
1 January 31, 2012
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SHEET TITLE
OVERALL SECOND FLOOR PLAN

DATE: January 31, 2012
FILE: 10036

ASB102
ADDENDUM 2