ADDENDUM

Project:	Turnbull School - Music Room Addition	Addendum No.:	A01
Tender #	N/A	No. of Pages:	17 (incl. Cover Page)
Project #	Hobin #1705	Date:	July 27, 2018

The following change(s) in the Tender Documents are effective immediately.
This Addendum forms part of the Contract Documents.

Acknowledge receipt of this Addendum by signing and dating this cover sheet and return via email or facsimile to Reinhard Vogel (reinhard@hobinarc.com). Failure to do so may subject bidder to disqualification.

Item	Description
1.1	Incorporate Changes identified in Architectural Addendum A01 (16 pages) prepared by Hobin Architecture Incorporated and attached.

Signed _____ Date _____

HOBIN ARCHITECTURE

Partners

Barry J. Hobin
OAA, FRAIC, Hon. Fellow AIA

William A. Davis
OAA, MRAIC, Associate AIA

Gordon Lorimer
OAA, FRAIC, Associate AIA

Wendy Brawley
OAA, MRAIC, Associate AIA

Douglas Brooks
Senior Arch. Tech.

Associates

Bryan Bonell
OAA, MRAIC, Associate AIA

Marc Thivierge
OAA, MRAIC

William Ritcey
MRAIC

Reinhard Vogel
Senior Arch. Tech.

Dan Henhoeffer
Senior Arch. Tech.

Hobin Architecture Incorporated

63 Pamilla Street
Ottawa, Ontario
Canada K1S 3K7

t 613-238-7200
f 613-235-2005

hobinarc.com

HOBIN
ARCHITECTURE

The following information supplements and/or supersedes the bid documents.

This addendum forms part of the contract documents and is to be read, interpreted, and coordinated with all other parts of the contract documents.

The costs of all contained herein are to be included in the contract sum. The following revisions contained in the Addendum supersede the information (*being revised*) contained in the original drawings and specifications issued for the above-named project to the extent referenced and shall become part thereof. Acknowledge receipt of this Addendum by inserting its number and date on the Tender Form. Failure to do so may subject bidder to disqualification.

Item No.	*Drawing or Spec Section*	*Description*
1.0 GENERAL		
1.01	Acoustic Panels	Hemisphere Model 180 3D Sound Diffusers: Enclosed data sheet on wall-mounted acoustic panels to be supplied & installed by General Contractor. Refer to Drawing A4.01 for location & quantity. Provide equal number of panels shown on Building Section 1 (west wall (dwg. 1/A4.0)) for east wall.
1.0 SPECIFICATIONS		
2.01	Section 31 23 10	Excavating, Trenching and Backfill Site Works and Landscape: Insert the attached specification section into the Tender Documents.
2.02	Section 31 23 13	Site Grading: Insert the attached specification section into the Tender Documents.
2.03	Section 32 11 23	Aggregate Base Course: Insert the attached specification section into the Tender Documents.
2.04	Section 32 92 23	Sodding: Insert the attached specification section into the Tender Documents.
3.0 DRAWINGS		
3.01	5/A4.01 & 7/S301	Cast-in-Place Retaining Wall Detail: Revise ramp surface from concrete to asphalt with granular base for extent of ramp.

End of Addendum AO1

Partners
Barry J. Hobin
OAA, FRAIC, Hon. Fellow AIA
William A. Davis
OAA, MRAIC, Associate AIA
Gordon Lorimer
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t 613-238-7200
f 613-235-2005

hobinarc.com

HEMISPHERE™

Model 180 3D Sound Diffusors

Auralex® Hemisphere™ Model 180 3D Sound Diffusors combine shape and high-impact hardness to diffuse sound evenly across the room to control *"flutter & echo"* effects. The **Auralex Hemisphere** is a great choice for tracking spaces, control rooms or any environment in need of controlling sound reflections. The **Hemisphere** helps maintain a *"live"* sound and a 3D sense of openness to the room.

In addition to our standard fire-rated **Hemisphere**, custom versions are available with added absorption for additional control. **Hemispheres** are available in their natural textured white finish, which can be painted, and in two fabric finishes to match our **ProPanel** series.

Custom fabric Hemispheres installed at Yellow Hammer Studio - Photo courtesy of Carl Tatz Design

MATERIAL: 0.125 Thermoformed Copolymer *(recyclable)*

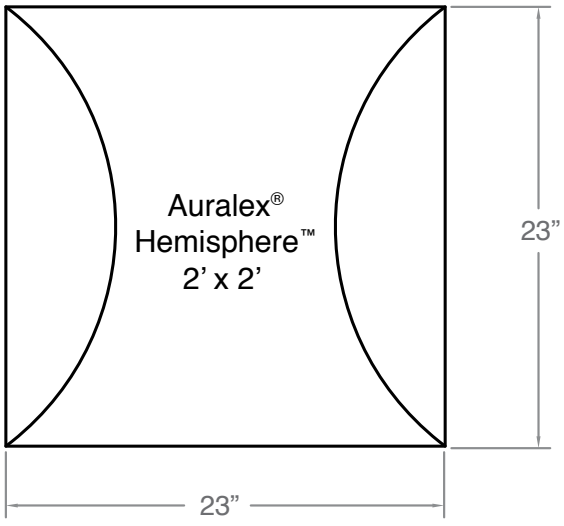
OPTIONAL ABSORPTION: 1½" Thick Fiberglass Backing

SIZES: 23" x 23" x 7"
Custom sizes available upon request

MOUNTING: Two-Part Clip System

FINISH: Textured White or Optional Fabric Covering
(Guilford Spinel Obsidian & Sandstone)

FLAMMABILITY: All components have a 'Class A' rating per ASTM E84



Real-World Acoustics®

1-800-959-3343 / 317-842-2600
9955 Westpoint Drive, Suite 101, Indianapolis IN USA 46256

1158-414.Hemisphere Diffusor Spec Sheet.indd (06/11/2014 - 4:14 PM)

PART 1 - GENERAL

1.1 RELATED REQUIREMENTS

.1 Section 31 05 17 - Aggregate Materials.

.2 Section 31 23 13 - Site Grading

1.2 REFERENCE STANDARDS

.1 ASTM International
.1 ASTM D698-07e1, Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort 600kN-m/m^3.

.2 Ontario Provincial Standard Specifications (OPSS)
.1 OPSS.MUNI 206 Grading.
.2 OPSS.MUNI 1004-05 Material Specification for Aggregates - Miscellaneous.
.3 OPSS.MUNI 1010, Material Specification for Aggregates-Base, Subbase, Select Subgrade and Backfill Material.

1.3 REGULATIONS

.1 Shore and brace excavations, protect slopes and banks and perform all work in accordance with Provincial and Municipal regulations whichever is more stringent.

1.4 DEFINITIONS

.1 Unclassified excavation: excavation of deposits of whatever character encountered in work.

.2 Common excavation: excavation of materials of whatever nature, which are not included under definitions of rock excavation.

.3 Waste material: excavated material unsuitable for use in Work or surplus to requirements.

.4 Unshrinkable fill: very weak mixture of cement, concrete aggregates and water that resists settlement when placed in utility trenches, and capable of being readily excavated.

1.5 TESTING AND INSPECTIONS

.1 Testing of materials and compaction of backfill and base material will be carried out by certified testing laboratory and paid for by the Owner.

1.6 EXISTING CONDITIONS

.1 Buried services:

.1 Size, depth and location of existing utilities and structures as indicated are for guidance only. Completeness and accuracy are not guaranteed.

.2 Prior to beginning excavation Work, notify applicable authorities having jurisdiction to establish location and state and use of buried utilities and structures. Authorities having jurisdiction to clearly mark such locations to prevent disturbance during Work.

.3 Confirm locations of buried utilities by careful test excavations or soil hydrovac methods.

.4 Maintain and protect from damage, water, sewer, gas, electric, telephone, communications and other utilities and structures encoutered.

.5 Where utility lines or structures exist in area of excavation, obtain direction from Engineer before removing or re-routing. Costs for such Work to be paid by Owner.

.6 Record location of maintained, re-routed and abandoned underground lines.

.7 Confirm locations of recent excavations adjacent to area of excavation.

.2 Existing buildings and surface features:

.1 Conduct, with Consultant, condition survey of existing buildings, vestibule and atrium, trees and other plants, lawns, fencing, service poles, lighting, wires, pavement, survey bench marks and monuments which may be affected by Work.

.2 Protect existing buildings and surface features from damage while Work is in progress. In event of damage, immediately make repair as directed by Consultant.

PART 2 - PRODUCTS

2.1 MATERIALS

.1 Type 1 fill: Granular 'A' to meet the requirements of the Ontario Provincial Standard Specification OPSS No. 1010.

.2 Type 2 fill: backfill for drywells to be sand, free from rocks larger than 75mm.

.3 Type 3 fill: selected material from excavation or other sources, approved by Engineer for use intendend, unfrozen and free from rocks larger than 100mm, cinders, ashes, sods, refuse or deleterious materials.

.4 Type 5 fill: Clean, hard, durable particles or fragments of crushed 1⁄4" minus limestone, tree from clay lumps, cementation, organic matter, frozen material, and other deleterious material, meeting the following grading requirements:

1⁄4" Minus Aggregate Gradation
Sieve Designation Range of % Passing
No. 3/8" 100%
No. 4 95-100
No. 8 75-80
No. 16 55-65
No. 30 40-50
No. 50 25-35
No. 100 20-25
No. 200 5-15

PART 3 - EXECUTION

3.1 TEMPORARY EROSION AND SEDIMENTATION CONTROL

1. Provide temporary erosion and sedimentation control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties, into crawl space through area wells, into finished spaces through doors and according to requirements of authorities having jurisdiction.

2. Inspect, repair, and maintain erosion and sedimentation control measures during construction until permanent vegetation has been established.

3. Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal.

3.2 SITE PREPARATION

1. Remove obstructions, ice and snow, from surfaces to be excavated within limits indicated.

2. Cut pavement or sidewalk neatly along limits of proposed excavation in order that surface may break evenly and cleanly.

3.3 PREPARATION / PROTECTION

1. Keep excavations clean, free of standing water, and loose soil.

.2 Where soil is subject to significant volume change due to change in moisture content, cover and protect to Consultants approval.

.3 Protect natural and man-made features required to remain undisturbed. Unless otherwise indicated or located in an area to be occupied by new construction, protect existing trees from damage.

.4 Protect buried services that are required to remain undisturbed.

3.4 EXCAVATION

.1 Excavate to lines, grades, elevations and dimensions as indicated.

.2 Advise Engineer at least 7 days in advance of excavation operations for initial cross sections to be taken.

.3 Remove asphalt paving and other obstructions encountered during excavation in accordance with Section 02 41 13.14 Asphalt Pavement Removal.

.4 Excavation must not interfere with bearing capacity of adjacent foundations.

.5 Do not disturb soil within branch spread of trees or shrubs that are to remain.

.6 If excavating through roots, excavate by hand and cut roots with sharp axe or saw.

.7 For trench excavation, unless otherwise authorized by Engineer in writing do not excavate more than 30 m of trench in advance of installation operations and do not leave open

more than 15 m at end of day's operation.

.8 Keep excavated and stockpiled materials a safe distance away from edge of trench.

.9 Restrict vehicle operations directly adjacent to open trenches.

.10 Dispose of surplus and unsuitable excavated material off site.

.11 Do not obstruct flow of surface drainage or natural watercourses.

.12 Earth bottoms of excavations to be undisturbed soil, level, free from loose, soft or organic matter.

.13 Notify Consultant when bottom of excavation is reached.

.14 Remove unsuitable material from trench bottom including those that extend below required elevations to extent and depth as directed by Consultant.

.15 Correct unauthorized over-excavation as follows:
.1 Fill under bearing surfaces and footings with OPSS Granular A or Granular B Type II, placed in lifts no greater than 300mm thick and compacted using suitable compaction equipment for the lift thickness. Compact to 98% of its standard Standard Proctor maximum dry density.
.2 Fill under other areas with Type 1 fill compacted in thin lifts to a minimum density of 95% of their respective standard Standard Proctor maximum dry density.

.16 Hand trim, make firm and remove loose material and debris from excavations.
.1 Where material at bottom of excavation is disturbed, compact foundation soil to density at least equal to undisturbed soil.

3.5 FILL TYPES AND COMPACTION

.1 Unless otherwise specified, native materials shall be compacted to 95% maximum dry density and imported fill and granular material shall be compacted to 98% maximum dry density.

3.6 BACKFILLING

.1 Do not proceed with backfilling operations until completion of the following:

.1 Consultant has inspected and approved installations.

.2 Inspection, testing, approval and recording location of

underground utilities.

.3 Removal of shoring and bracking; backfilling of voids with satisfactory soil material.

.2 Areas to be backfilled to be free from debris, snow, ice, water and frozen ground.

.3 Do not use backfill material which is frozen or contains ice, snow or debris.

.4 Place backfill material in uniform layers not exceeding 150mm compacted thickness up to grades indicated. Compact each layer before placing succeeding layer. Add water as required to achieve specified density.

.5 Backfilling around installations:

.1 Place bedding and surround material as specified elsewhere.

.2 Place layers simultaneously on both sides of installed work to equalize loading. Difference not to exceed 300mm.

3.7 RESTORATION

.1 Upon completion of Work, remove waste materials and debris in accordance to Section 01 74 21 - Construction/Demolition Waste Management and Disposal, trim slopes, and correct defects as directed by Consultant.

.2 Clean and reinstate areas affected by Work as directed by Consultant.

.3 Protect newly graded areas from traffic and erosion and maintain free of trash or debris.

END OF SECTION

PART 1 - GENERAL

1.1 RELATED REQUIREMENTS

.1 Section 31 23 10 – Excavating, Trenching and Backfill, Site Works, and Landscape

.2 Section 31 23 13 - Site Grading

1.2 EXISTING CONDTIONS

.1 Known underground and surface utility lines and buried objects are indicated on the site plan.

1.3 PROTECTION

.1 Protect existing fencing, trees, landscaping, natural features, bench marks, buildings, pavement, surface or underground utility lines which are to remain as directed by the Engineer. If damaged, restore to original or better condition unless directed otherwise.

.2 Maintain access roads to prevent accumulation of construction related debris on roads.

1.4 DEFINITIONS

.1 Unclassified excavation: excavation of deposits of whatever character encountered in work.

.2 Common excavation: excavation of materials of whatever nature, which are not included under definitions of rock excavation.

.3 Waste material: excavated material unsuitable for use in Work or surplus to requirements.

.4 Unshrinkable fill: very weak mixture of cement, concrete aggregates and water that resists settlement when placed in utility trenches, and capable of being readily excavated.

PART 2 - PRODUCTS

2.1 MATERIALS

.1 Fill material: Type 3 in accordance with Section 31 23 10 – Excavating, Trenching and Backfill, Site Works and Landscape.

.2 Excavated or graded material existing on site may be suitable to use as fill for grading work if approved by Engineer.

PART 3 - EXECUTION

3.1 STRIPPING OF TOPSOIL

.1 Do not handle topsoil while in wet or frozen condition or in any manner in which soil structure is adversely affected as determined by Engineer.

.2 Commence topsoil stripping of areas as directed by Engineer after area has been cleared of brush weeds and grasses and removed from site.

.3 Strip topsoil to depths as directed by Engineer. Avoid mixing topsoil with subsoil.

.4 Dispose of unused topsoil off site.

3.2 GRADING

.1 Rough grade to levels, profiles and contours allowing for surface treatment as indicated.

.2 Slope rough grade away from building 1:50 minimum.

.3 Prior to placing fill over existing ground, scarify surface to depth of 150mm. Maintain fill and existing surface at approximately same moisture content to facilitate bonding.

.4 Compact filled and disturbed areas to maximum dry density to ASTM D 698 as follows:
- .1 95% under landscaped areas.
- .2 95% under paved and walk areas.

.5 Do not disturb soil within branch spread of trees or shrubs to remain.

3.3 TESTING

.1 Inspection and testing of soil compaction will be carried out by testing laboratory designated by Engineer. Cost of tests will be paid by Owner.

3.4 SURPLUS MATERIAL

.1 Remove surplus material and material unsuitable for fill, grading or landscaping off site as directed by Engineer.

END OF SECTION

PART 1 - GENERAL

1.1 RELATED REQUIREMENTS

.1 Section 31 24 13 - Parking Lot Excavation and Compaction.

.2 Section 31 05 17 -Aggregate Materials.

1.2 DELIVERY, STORAGE AND HANDLING

.1 Deliver and stockpile aggregates in accordance with Section 31 05 17 - Aggregate Materials.

PART 2 - PRODUCTS

2.1 MATERIALS

.1 Granular Base: OPSS Granular A or Granular B Type II.

PART 3 – EXECUTION

3.1 SEQUENCE OF OPERATION

.1 Place granular base after subgrade surface is inspected and approved by Consultant.

.2 Placing

.1 Construct granular base to depth and grade in areas indicated.

.2 Ensure no frozen material is placed.

.3 Place material only on clean unfrozen surface, free from snow and ice.

.4 Place material using methods which do not lead to segregation or degradation of aggregate.

.5 Place material to full width in uniform layers not exceeding 150 mm compacted thickness.

.6 Shape each layer to smooth contour and compact to specified density before succeeding layer is placed.

.7 Remove and replace that portion of layer in which material becomes segregated during spreading.

.3 Compaction Equipment

.1 Compaction equipment to be capable of obtaining required material densities.

.4 Compacting

.1 Compact to density not less than 98% maximum dry density in accordance with ASTM D698.

.2 Shape and roll alternately to obtain smooth, even and uniformly compacted base.

.3 Apply water as necessary during compacting to obtain specified density.

.4 In areas not accessible to rolling equipment, compact to specified density with mechanical tampers approved by Consultant.

.5 Correct surface irregularities by loosening and adding or removing material until surface is within specified tolerance.

3.2 SITE TOLERANCES

.1 Finish base surface to be within plus or minus 10mm of established grade and cross section but not uniformly high or low.

3.3 PROTECTION

.1 Maintain finished base in condition conforming to this Section until succeeding material is applied or until acceptance by Consultant.

END OF SECTION

PART 1 - GENERAL

1.1 RELATED REQUIREMENTS	.1	Section 31 23 13 – Site Grading
1.2 REFERENCE STANDARDS	.1	Canadian Nursery Landscape Association (CNLA)
	.2	Canadian Standards for Nursery Stock – Eighth Edition.
	.3	Government of Canada Department of Justice (GCDJ) .1 F 10 'Fertilizers Act .2 C.R.C., c. 666 'Fertilizers Regulations
1.3 SOURCE QUALITY CONTROL	.1	Conduct pre-installation meeting to verify project requirements, installation instructions, and warranty requirements. Comply with Section 01 33 26.
	.2	Obtain sod approval at the source.
	.3	When the proposed sod source is approved, use no other without written authorization.
1.4 DELIVERY AND STORAGE	.1	Schedule the deliveries in order to keep storage at the job site to a minimum without causing delays.
	.2	Deliver, unload, and store the sod on pallets.
	.3	Deliver the sod to site within 24 hours of being lifted and lay within 36 hours of being lifted.
	.4	Do not deliver small, irregular, or broken pieces of sod.
	.5	During wet weather allow to dry sufficiently to prevent tearing during lifting and handling.
	.6	During dry weather protect the sod from drying and water as necessary to ensure its vitality and prevent dropping of soil in handling. Any dry sod will be rejected.
1.5 SCHEDULING	.1	Schedule the laying of sod to coincide with preparation of the soil surface.
	.2	Schedule the sod installation when frost is not present in ground.

PART 2 - PRODUCTS

2.1 MATERIALS

.1 Nursery Sod: quality and source to comply with standards outlined in 'Canadian Standards for Nursery Stock' – Eighth Edition.

.2 Water: Potable

.3 Fertilizer:
.1 Fertilizer must meet standards of the Canadian 'Fertilizers Act' and 'Fertilizers Regulations'.
.2 Complete slow release fertilizer with maximum 35% water-soluble nitrogen.

.4 Herbicide: type, rate, and method of application will be subject to the approval of the Contract Administrator.

2.2 SOURCE QUALITY CONTROL

.1 Obtain approval from the Contract Administrator for the sod source.

.2 When the proposed sod source is approved, use no other source without written authorization.

PART 3 - EXECUTION

3.1 PREPARATION

.1 Verify that grades are correct and prepared in accordance with Section 32 91 21. If discrepancies occur, notify the Contract Administrator; do not commence work until instructed.

.2 Do not perform work under adverse field conditions such as frozen soil, excessively wet soil or soil covered with snow, ice, or standing water.

.3 Fine grade the surface until free of humps and hollows to smooth, even grade, to elevations indicated.

.4 Clean immediately, any soil or debris, stone, oils contaminating soil, gasoline and other deleterious materials.

3.2 SOD PLACEMENT

.1 Lay the sod during the growing season. Placing sod during dry summer periods, freezing temperatures, or over frozen soil, will be unacceptable.

.2 Lay the sod in rows, perpendicular to slope, smooth, and even with adjoining areas, and with joints staggered. Butt sections closely without overlapping or leaving gaps between sections. Cut out irregular or thin sections with sharp

implements. The sod should be staked on slopes greater than 2.5:1.

.3 Provide close contact between sod and soil by means of a light roller. Heavy rolling to correct grade irregularities not permitted.

.4 Water the sod immediately after laying the sod to obtain moisture penetration through the sod into top 100 mm of topsoil.

.5 Provide adequate moisture protection of sodded areas against erosion and mechanical damage. Remove protection after lawn areas have been accepted.

3.3 MAINTENANCE DURING ESTABLISHMENT PERIOD

.1 Perform following operations from time of installation until acceptance.

.1 Water sodded areas in sufficient quantities and at frequency required to maintain subsoil immediately under the sod continuously moist to depth of 75-100 mm.
.2 Cut grass for the first time to 50 mm when or prior to it reaching height of 70 mm. Remove clippings, which will smother, grassed areas as directed by the Contract Administrator.
.3 Maintain the sodded areas to 95% weed free.
.4 Fertilize sodded areas one month after sodding with 2:1:1 ratio fertilizer. Spread the fertilizer evenly at the rate of 0.5 kg of nitrogen/100 m2 and water in well.

3.4 ACCEPTANCE

.1 Sodded areas will be accepted at final inspection provided that:

.1 Sodded areas are properly established.
.2 Sodded areas are free of bare and dead patches.
.3 Sodded areas have been cut minimum of two times.
.4 Lawns sodded after September 30th will be accepted in following spring a month after the start of the growing season, provided acceptance conditions are fulfilled.

.2 The contractor will not be held responsible for damage due to salt, snow removal, or vandalism.

.3 Areas sodded in fall will be accepted in the following spring a month after the start of the growing season provided acceptance conditions are fulfilled.

3.5 MAINTENANCE DURING WARRANTY PERIOD

.1 Perform following operations from time of acceptance until the end of warranty period:

.1 Water sodded areas at weekly intervals to obtain optimum soil moisture conditions to depth of 100 mm.

.2 Dead or bare patches must be repaired and resod, to the satisfaction of the Contract Administrator.

.3 Cut grass and remove clippings that will smother grass.

.4 Cut grass at two week intervals or as directed by the Contract Administrator, but at intervals so that approximately one third of the growth is removed in single cut.

.5 Fertilize areas in accordance with the fertilizing program. Spread half of the required amount of fertilizer in one direction and remainder at right angles and water in well.

.6 Eliminate weeds by means acceptable to Contract Administrator.

END OF SECTION