

## Addendum 3

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**To:** Megan Finch, Beaverton School District  
**From:** Allison Miller  
**Project:** BSD – Raleigh Park HVAC and Electrical Upgrades  
YGH Job #19-0012  
**Subject:** Addendum 3  
**Date:** 25-March-2020

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The following changes to the Drawings and Specifications constitute this addendum. All changes included in Addenda become part of the Contract Documents for this project. Any changes herein supercede only the specific drawings, words, or paragraphs mentioned and the balance of the Drawings and Specifications remain in full force.

Careful note of this addendum shall be taken by all parties of interest so that proper allowance is made in all computations, estimates, and contracts, and so that all trades affected are fully advised in the performance of work that will required of them.

In the following clarifications, incorrect items revised or omitted with corrected information following in quotation marks or bold. Items revised in the Specifications are designated by a strikethrough for ~~deleted~~ and underlines for new when the section is reissued. Items revised on drawings are designated by a cloud line and a triangle with the corresponding sheet specific revision number.

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### Contents:

1. Drawing Narrative
  2. Bidder Questions and Responses
  3. Appendix
-

## **DRAWING NARRATIVE**

### SHEET GO.10 – GENERAL ABBREVIATIONS AND SHEET INDEX

**ADD** section 078413 “Penetration Firestopping” to Deferred Submittal list

## **BIDDER QUESTIONS AND RESPONSES**

Many of the replacement electrical panels are to be gutted with the shell staying in place. I would need to know the make and model of each panel to get pricing on replacements. Do you happen to have pictures of each panel with labeling?

**See photos attached to this addendum document, showing photos of panels and nameplates in question.**

The Sheet Notes say to “Paint all GWB surfaces throughout scope of project”. Can this be more clearly defined. Is this referring to only the new room enclosure being built in the library? As this project sprawls across almost the entire school it is assumed that only touch up at the locations impacted is needed?

**The sheet note “Paint all GWB surfaces throughout scope of project” refers to the new GWB surfaces for the AHU enclosure and touch ups at wall patching where ducts, grilles, pipes, or equipment are removed or installed.**

Are the actuators for the relief dampers to be installed inside the building or outside the building envelop? Can a mechanical detail be provided for the relief dampers?

**The relief dampers are intended to be barometric relief dampers installed above the relief grille in each classroom. There shouldn’t be an actuator since it’s not motorized. We can’t see beyond the relief grille in each space, so we don’t know exactly what it looks like inside the existing relief hoods. That would make a detail guesswork, but it probably would be a slip-in type barometric relief damper.**

## **APPENDIX**

Photos of panels and nameplates.

# SYMBOLS LEGEND

**GRID TAG**  
 LETTERS HORIZONTAL  
 NUMBERS VERTICAL  
 GRID LINE

**DOOR TAG**  
 DOOR NUMBER

**KEYNOTE**  
 KEYNOTE NUMBER

**ROOM TAG**  
 ROOM NAME  
 ROOM NUMBER  
 ROOM SQ FT

**WINDOW TAG**  
 WINDOW ID

**WALL TAG**  
 WALL ID

**LEVEL TAG**  
 LEVEL NAME  
 LEVEL HEIGHT

**CEILING TAG**  
 DESCRIPTION  
 HEIGHT

**FIRE LIFE SAFETY TAG**  
 ROOM SQ FT  
 ROOM OCCUPANT LOAD  
 ROOM OCCUPANT TYPE  
 OCCUPANT LOAD FACTOR  
 NUMBER OF EXITS REQ'D

**REVISION TAG**  
 REVISION BUBBLE  
 REVISION NUMBER

**BUILDING ELEVATION TAG**  
 SHEET NUMBER  
 ELEVATION NUMBER

**BUILDING SECTION TAG**  
 DETAIL NUMBER  
 REFERENCE TYPE  
 SHEET NUMBER

**WALL ELEVATION TAG**  
 SHEET NUMBER  
 ELEVATION NUMBER

**WALL SECTION TAG**  
 DETAIL NUMBER  
 REFERENCE TYPE  
 SHEET NUMBER

**DETAIL TAG**  
 DETAIL NUMBER  
 REFERENCE TYPE  
 SHEET NUMBER

**CALLOUT**  
 DETAIL NUMBER  
 REFERENCE TYPE  
 SHEET NUMBER  
 AREA OF ENLARGEMENT

**TITLE LINE**  
 DRAWING NUMBER  
 DRAWING NAME  
 DRAWING SCALE  
 DRAWING PARENT VIEW

**NORTH ARROW**  
 TRUE NORTH DIRECTION  
 PROJECT NORTH DIRECTION  
 ANGLE TO TRUE NORTH

**WORK DESIGNATION**  
 EXISTING TO REMAIN  
 EXISTING TO BE DEMOLISHED  
 NEW CONSTRUCTION

**MATCHLINE**  
 MATCHLINE  
 MATCHLINE CONTINUED VIEW  
 LOCATION

**PROPERTY LINE**  
 PROPERTY LINE

**SCOPE OF WORK**  
 SCOPE OF WORK

# ABBREVIATIONS

&	AND
L	ANGLE
@	AT
CL	CENTERLINE
Ø	DIAMETER
±	PLUS OR MINUS
°	DEGREE
#	POUND OR NUMBER
(E)	EXISTING
AB	ANCHOR BOLT
A/C	AIR CONDITIONING
ACST	ACOUSTICAL
ACM	ALUMINUM COMPOSITE MATERIAL PANELS
ACT	ACOUSTICAL CEILING TILE
ACW	ALUMINUM CURTAIN WALL
AD	AREA DRAIN
ADJ	ADJUSTABLE OR ADJACENT
AF	ACCESS FLOOR
AFF	ABOVE FINISHED FLOOR
AGGR	AGGREGATE
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ASF	ALUMINUM STOREFRONT
ASPH	ASPHALT
AWP	ACOUSTICAL WALL PANEL
BCS	BABY CHANGING STATION
BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BOT	BOTTOM
CAB	CABINET
CB	CATCH BASIN OR CHALKBOARD
CBB	CEMENT BACKER BOARD
CEM	CEMENT
CER	CERAMIC
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CG	CORNER GUARD
CI	CAST IRON
CIP	CAST-IN-PLACE
CJ	CONSTRUCTION OR CONTROL JOINT
CLG	CEILING
CLO	CLOSET
CLR	CLEAR
CMP	COMPOSITE METAL PANEL
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CORR	CORRIDOR
CPT	CARPET OR CARPET TILE
CSK	COUNTERSUNK
CT	CERAMIC TILE
CTR	CENTER
CV	CONDOM VENDOR
DBL	DOUBLE
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION OR DIVIDE
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DWG	DRAWING
DWR	DRAWER
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EOS	EDGE OF SLAB
EP	ELECTRICAL PANEL
EQ	EQUAL
EQUIP	EQUIPMENT
ESCAL	ESCALATOR
EST	ESTIMATE
EW	ELECTRIC WATER COOLER
EW	ELECTRIC WATER HEATER
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPOSED OR EXPANSION
EXT	EXTERIOR
FA	FIRE ALARM
FB	FLAT BAR
FD	FLOOR DRAIN
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FHC	FIRE HOSE CABINET
FIN	FINISH
FIN FLR	FINISH FLOOR
FLR	FLOOR
FLOUR	FLOUORESCENT
FMT	FORMED METAL TRIM
FOC	FACE OF CONCRETE OR CURB
FOF	FACE OF FINISH
FOS	FACE OF STUD
FP	FIREPROOF

# ABBREVIATIONS

FT	FOOT OR FEET
FTG	FOOTING
FUS	FOLDING UTILITY SHELF
G	GROUND
GA	GAGE
GALV	GALVANIZED
GB	GRAB BAR
GL	GLASS
GL BLK	GLASS BLOCK
GLZ CMU	GLAZED CMU
GR	GRADE
GWB	GYPSTUM WALL BOARD
GWB-AR	GYPSTUM WALL BOARD - ABUSE RESISTANT
GWB-IR	GYPSTUM WALL BOARD - IMPACT RESISTANT
GWB-WR	GYPSTUM WALL BOARD - WATER RESISTANT
HB	HOSE BIBB
HC	HOLLOW CORE
HD	HAND DRYER
HDWD	HARDWOOD
HGT	HEIGHT
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
HVAC	HEATING, VENTILATION, AIR CONDITIONING
ID	INSIDE DIAMETER
INSUL	INSULATION
INT	INTERIOR
JS	JOINT SEALANT
JT	JOINT
LAB	LABORATORY
LAM	LAMINATE
LAV	LAVATORY
LINO	LINOLEUM
LKR	LOCKER
LS	INTERIOR LIGHT SHELF ASSEMBLY
LT	LIGHT
MATL	MATERIAL
MAX	MAXIMUM
MB	MARKER BOARD
MECH	MECHANICAL
MEMB	MEMBRANE
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MIRR	MIRROR
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTD	MOUNTED
MTL	METAL
MU	MIRROR UNIT
MULL	MULLION
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
MTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFD	OVER FLOW DRAIN
OFF	OFFICE
OFI	OWNER FURNISHED OWNER INSTALLED
OPNG	OPENING
OPP	OPPOSITE
P	PAINT COLOR
PBD	PARTICLEBOARD
PCC	PRECAST CONCRETE
PERF	PERFORATED
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLYWD	PLYWOOD
PNL	PANEL
PR	PAIR
PS	PROJECTION SCREEN
PT	POINT
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
QT	QUARRY TILE
R	RADIUS OR RISER
RA	RETURN AIR
RB	RESILIENT BASE
RB HK	ROBE HOOK
RD	ROOF DRAIN
REF	REFRIGERATOR - FREEZER
REINF	REINFORCED
REQD	REQUIRED
RESIL	RESILIENT
RM	ROOM
RO	ROUGH OPENING
RVS	REVERSED
RWL	RAIN WATER LEADER
SC	SOLID CORE
SCD	SEAT COVER DISPENSER
SCHED	SCHEDULE
SD	STORM DRAIN OR SOAP DISPENSER
SECT	SECTION
SHR	SHOWER
SHT	SHEET
SIM	SIMILAR
SKLT	SKYLIGHT
SNDU	SANITARY NAPKIN DISPOSAL UNIT
SNV	SANITARY NAPKIN VENDOR
SPEC	SPECIFICATION
SQ	SQUARE
SS	EXTERIOR SUNSCREEN ASSEMBLY
SST	STAINLESS STEEL
ST	STONE
STA	STATION

# ABBREVIATIONS

STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPEND
SYMM	SYMMETRICAL
T	TREAD
T&G	TONGUE & GROOVE
TB	TACK BOARD
TEL	TELEPHONE
THX	THICKNESS
THRU	THROUGH
TO	TOP OF
TOC	TOP OF CURB
TOL	TOLERANCE
TOS	TOP OF STEEL
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TPTN	TOILET PARTITION
TYP	TYPICAL
UNFIN	UNFINISHED
UOI	UNLESS OTHERWISE INDICATED
UR	URINAL
US	UTILITY SHELF
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
W	WITH
WC	WATER CLOSET or WOOD CEILING
WD	WOOD
WDF	WOOD FLOORING
WDP	WOOD VENEER FACED PANELING
WM	WIRE MESH
WR	WASTE RECEPTACLE
W/O	WITHOUT
WOM	WALK OFF MAT
WP	WATERPROOF
WS	WINDOW SHADE
WSCT	WAINSCOT
WWF	WELDED WIRE FABRIC

# TEAM DIRECTORY

## CLIENT

BEAVERTON SCHOOL DISTRICT  
 16550 SW Merlo Road  
 Portland, OR 97003 USA  
 Tel: 503-356-4318  
 Contact: Megan Finch

## BUILDING / PLANNING AUTHORITY

DEPARTMENT OF LAND USE & TRANSPORTATION  
 PLANNING AND DEVELOPMENT SERVICES  
 155 N 1st Ave, Suite 350  
 Hillsboro, OR 97124 USA  
 Tel: 503-846-3470  
 Contact: Jeff Shelby

## ARCHITECT

YOST GRUBE HALL ARCHITECTURE  
 707 SW Washington St, Suite 1200  
 Portland, OR, 97205 USA  
 Tel: 503-221-0150  
 Contact: Jesse Walt

## STRUCTURAL ENGINEER

ABHT STRUCTURAL ENGINEERS  
 1640 NW Johnson Street  
 Portland, OR, 97209 USA  
 Tel: 503-243-6682  
 Contact: Clinton Ambrose

## MECHANICAL ENGINEER

KCL ENGINEERING  
 2175 NW Raleigh Street, Suite 110  
 Portland, OR 97210 USA  
 Tel: 971-400-0416  
 Contact: Stormy Shanks

## ELECTRICAL ENGINEER

KCL ENGINEERING  
 2175 NW Raleigh Street, Suite 110  
 Portland, OR 97210 USA  
 Tel: 503-679-5954  
 Contact: Adam Koble

# CODE SUMMARY

## GENERAL

JURISDICTIONAL AUTHORITY  
 WASHINGTON COUNTY

## APPLICABLE CODES

- 2019 OREGON STRUCTURAL SPECIALTY CODE
- 2019 OREGON FIRE CODE
- 2019 OREGON MECHANICAL SPECIALTY CODE
- 2019 OREGON ELECTRICAL SPECIALTY CODE
- 2019 OREGON STRUCTURAL SPECIALTY CODE (2016 ASHRAE 90.1)
- 2017 OREGON PLUMBING SPECIALTY CODE

## TYPE OF CONSTRUCTION

CONSTRUCTION CLASSIFICATION (SECTION 602) TYPE V-B

# BUILDING DESCRIPTION

RALEIGH PARK ELEMENTARY SCHOOL CONSISTS OF A SINGLE STORY WITH 45,166 SF AND THREE ADDITIONAL PORTABLE CLASSROOM BUILDINGS THAT ARE NOT PART OF THE SCOPE OF THIS PROJECT. THE SCHOOL OPENED IN 1958 IN AN EXISTING PRIVATE SCHOOL BUILDING AND WAS EXPANDED IN 1959, 1964, AND IN 1997. IN 2002, THE ORIGINAL WEST PORTION OF THE BUILDING WAS PARTIALLY RENOVATED. THIS PROJECT INCLUDES ALL ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL RENOVATIONS REQUIRED TO UPGRADE THE HVAC SYSTEM THROUGHOUT THE BUILDING.

# DEFERRED SUBMITTALS

- SECTION 077200 "ROOF ACCESSORIES", ATTACHMENT OF ROOFTOP MECHANICAL UNIT TO SUPPORTING CURBS.
- SEISMIC BRACING FOR PERMANENTLY INSTALLED HVAC EQUIPMENT.
- PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR HVAC SYSTEMS, COMPONENTS, AND EQUIPMENT.
- HANGERS AND SUPPORT FOR ALL EQUIPMENT.
- SEISMIC BRACING FOR PERMANENTLY INSTALLED ELECTRICAL EQUIPMENT.
- FIRE ALARM SYSTEM MODIFICATIONS FOR HVAC EQUIPMENT SHUTDOWN.
- SECTION 078413 "PENETRATION FIRESTOPPING"

# DRAWING LIST

GENERAL	
G0.00	COVER SHEET
G0.10	GENERAL ABBREVIATIONS AND SHEET INDEX
GENERAL: 2	
ARCHITECTURAL	
A1.01	SITE PLAN
A2.10D	FIRST FLOOR DEMOLITION PLAN
A2.10	FIRST FLOOR PLAN
A2.20	ROOF PLAN
A3.01	CLASSROOM ENLARGED PLANS
A3.02	LIBRARY ENLARGED PLANS
A8.10	EXTERIOR DETAILS
A9.10	INTERIOR DETAILS
ARCHITECTURAL: 8	
STRUCTURAL	
S0.01	GENERAL STRUCTURAL NOTES AND DETAILS
S1.01	FIRST FLOOR PLAN
S2.01	SECTIONS AND DETAILS
STRUCTURAL: 3	
MECHANICAL	
M0.00	MECHANICAL SYMBOL LEGEND AND GENERAL NOTES
M2.00	UTILITY TUNNEL MECHANICAL PLAN
M2.10D	FIRST FLOOR MECHANICAL DEMOLITION PLAN
M2.20D	ROOF MECHANICAL DEMOLITION PLAN
M2.10	FIRST FLOOR MECHANICAL PLAN
M2.11	FIRST FLOOR MECHANICAL CONTROLS PLAN
M2.20	ROOF MECHANICAL PLAN
M2.21	ROOF MECHANICAL CONTROLS PLAN
M3.10	ENLARGED MECHANICAL PLANS
M4.00	MECHANICAL DETAILS
M5.00	MECHANICAL CONTROLS
M5.01	MECHANICAL CONTROLS
M5.02	MECHANICAL CONTROLS
M5.03	MECHANICAL CONTROLS
M6.00	MECHANICAL SCHEDULES
M6.01	MECHANICAL SCHEDULES
M6.02	MECHANICAL SCHEDULES
MECHANICAL: 17	
ELECTRICAL	
E0.01	ELECTRICAL GENERAL NOTES AND SYMBOLS
E1.01	ELECTRICAL SITE PLAN
E2.10D	ELECTRICAL DEMOLITION PLAN
E2.10	ELECTRICAL PLAN
E3.01	ELECTRICAL ONE-LINE DIAGRAM
E3.02	PANEL SCHEDULES
E3.03	PANEL SCHEDULES
E3.04	PANEL SCHEDULES
E4.01	ELECTRICAL SCHEDULES
ELECTRICAL: 9	
ASBESTOS ABATEMENT	
1	ASBESTOS ABATEMENT MATERIAL LOCATION MAP
ASBESTOS ABATEMENT: 1	
GRAND TOTAL: 40	

# LOCATION MAP

SITE ADDRESS: 3670 SW 78TH AVE,  
 PORTLAND, OR 97225



# BID/PERMIT DOCUMENTS



YOST GRUBE HALL  
 ARCHITECTURE

Owner  
 BEAVERTON SCHOOL DISTRICT  
 CENTRAL ADMINISTRATION CENTER  
 16550 MERLO ROAD  
 BEAVERTON, OREGON 97003

Project  
 BSD RALEIGH PARK HVAC  
 AND ELECTRICAL UPGRADE  
 RALEIGH PARK ELEMENTARY SCHOOL  
 3670 SW 78TH AVE  
 PORTLAND, OR 97225

MARK	DATE	DESCRIPTION
3	03/25/20	ADDENDUM 3

Sheet Title  
 GENERAL ABBREVIATIONS AND SHEET INDEX

Drawing No.

G0.10

Scale 12" = 1'-0"

Date MARCH 04, 2020

Project No. 19-0012