

Addendum 2

707 SW Washington St
Suite 1200
Portland, Oregon
97205 USA
t 503 221 0150
f 503 295 0840
w ygh.com

To: Megan Finch, Beaverton School District
From: Allison Miller
Project: BSD – Raleigh Park HVAC and Electrical Upgrades
YGH Job #19-0012
Subject: Addendum 2
Date: 23-March-2020

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.

Contents:

1. Drawing Narrative
 2. Substitution Requests – Accepted
 3. Bidder Questions and Responses
-

DRAWING NARRATIVE

SHEET A1.01 – SITE PLAN

ADD dimensions to new metered service equipment pad

SHEET E3.01 – ELECTRICAL ONE-LINE DIAGRAM

REVISE distribution panel “2MDP” SCCR value to 42,000A in lieu of 65,000A.

REVISE distribution panel “2SDP” SCCR value to 25,000A in lieu of 42,000A.

SHEET E3.04 – PANEL SCHEDULES

REVISE panel “K” SCCR value to 18KAIC in lieu of 22KAIC.

REVISE panel “2M1” SCCR value to 10KAIC in lieu of 14KAIC.

SUBSTITUTION REQUESTS – ACCEPTED

23 37 00 – Air Outlets and Inlets

2.12 A- **ADD** Nailor Ind. as an acceptable equivalent.

RG-1 – **ADD** Nailor Ind Model 61C as an acceptable equivalent.

SD-1 – **ADD** Nailor Ind. Model ARNRA1 as an acceptable equivalent.

SD-1 – **ADD** Nailor Ind. Model 4275 as an acceptable equivalent.

SG-1 – **ADD** Nailor Ind. Model 61DH-O as an acceptable equivalent.

BIDDER QUESTIONS AND RESPONSES

Would it be possible to waive the AWI cabinet and countertop requirement in specification Architectural Woodwork 06 41 00. It could be very difficult to get the AWI cabinet subcontractors to bid such a small amount of work.

YGH’s recommendation is always to retain the AWI requirement. If the contractors are unable to find a cabinet subcontractor or the price comes in outrageously high we can address that during construction. This way we are comparing like to like during bidding for quality.

The concrete specification section 03 30 00-2 paragraph 1.6 A. requires the concrete installer/finisher and their supervisor be ACI-certified flatwork technicians. Can this requirement be waived since there is such a small amount of concrete and since they are equipment pads?

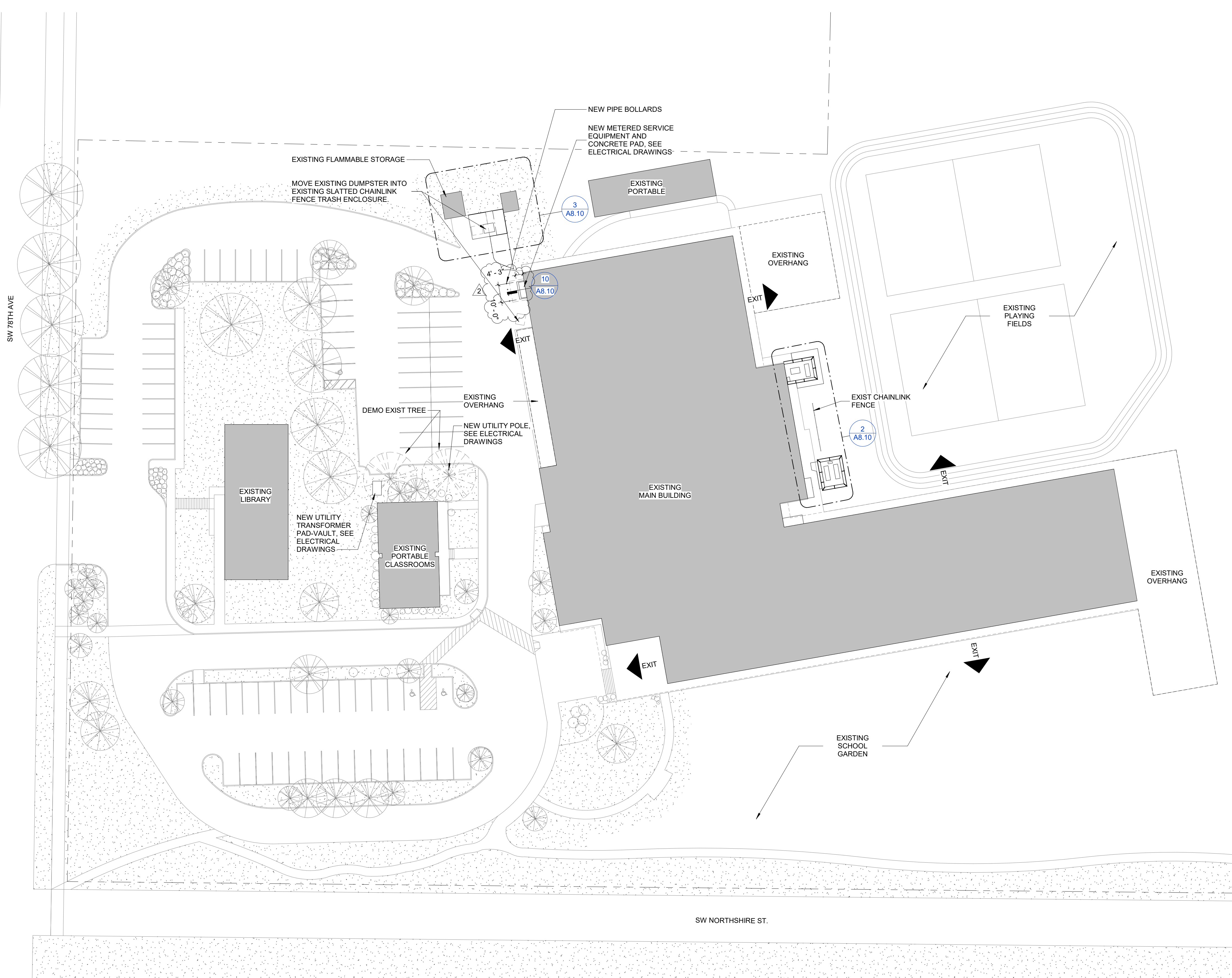
In order to have a like to like bid comparison we recommend keeping the current requirement. If it is overly expensive or cause a schedule delay during the construction process, we can remove it at a cost savings to the district.

Detail 2 on Drawing S1.01. What is the length and width of the “New Metered Service Equipment Pad?

We will provide dimensions for the new metered service equipment pad on A1.01 in the bid addendum 2.

There is a specification section 03 51 13 for Cementitious Wood Fiber Decks (Tectum Panels), and one detail 2/S2.01 where we are installing an HVAC curb that shows the panels, but we cannot find any work requiring new panels. Will there be a reflected ceiling plan coming out, to show us where these panels are intended to be used?

The specification section is included to cover any patch and repair that may be required during the course of construction. There are no specific locations identified at this time.



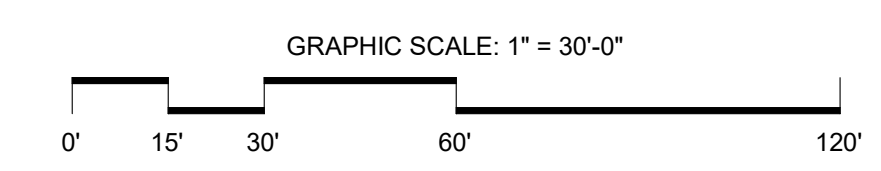
GENERAL NOTES

1. ARCHITECTURAL ELEVATIONS ARE BASED ON MAIN FLOOR LEVEL 100'-0"
2. WHERE ENLARGED PLANS ARE PROVIDED, DETAILED DIMENSIONS AND OTHER INFORMATION WILL BE FOUND ON THE ENLARGED PLAN, U.O.I.
3. INTERIOR PARTITIONS ARE DIMENSIONED TO FACE OF FINISH UNLESS OTHERWISE INDICATED.
4. DIMENSIONS ARE TO FACE OF STRUCTURE OR TO GRIDLINES OR TO REFERENCED DIMENSION POINT (DIM PT)
5. CONTRACTOR TO COORDINATE AND VERIFY THAT THE TRANSITION OF MATERIALS PROVIDES FOR A CONTINUOUS WEATHER TIGHT ENVELOPE WHERE DIFFERENT TRADES ARE RESPONSIBLE FOR WEATHER TIGHT CONSTRUCTION OF THE EXTERIOR ENVELOPE.
6. REFER TO A9.10 FOR TYPICAL PENETRATION DETAILS.
7. REFER TO FIG. 1 ASBESTOS ABATEMENT MATERIAL LOCATION MAP. SEE THE FULL TRC ASBESTOS REPORT FOR ADDITIONAL INFORMATION
8. CONTRACTOR TO DETERMINE LOCATIONS OF EXISTING COMPONENTS IN MECHANICAL CHAISES AND TUNNELS. REROUTE EXISTING COMPONENTS IF NECESSARY.

LEGEND

- EXIT (arrow symbol) ENTRANCE / EXIT
- DESCRIPTION (line symbol)
- PROPERTY LINE (dashed line symbol)
- FENCE (double line symbol)
- EXISTING TREES (tree symbol)
- DEMOLISHED TREES (tree symbol with slash)

1 SITE PLAN
1" = 30'-0"



YOST GRUBE HALL ARCHITECTURE
707 SW Washington Street | Suite 1200 | Portland, OR 97205
1.503.221.0150 | 1.503.295.0540

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
1	03/16/20	ADDENDUM 1
2	03/23/20	ADDENDUM 2

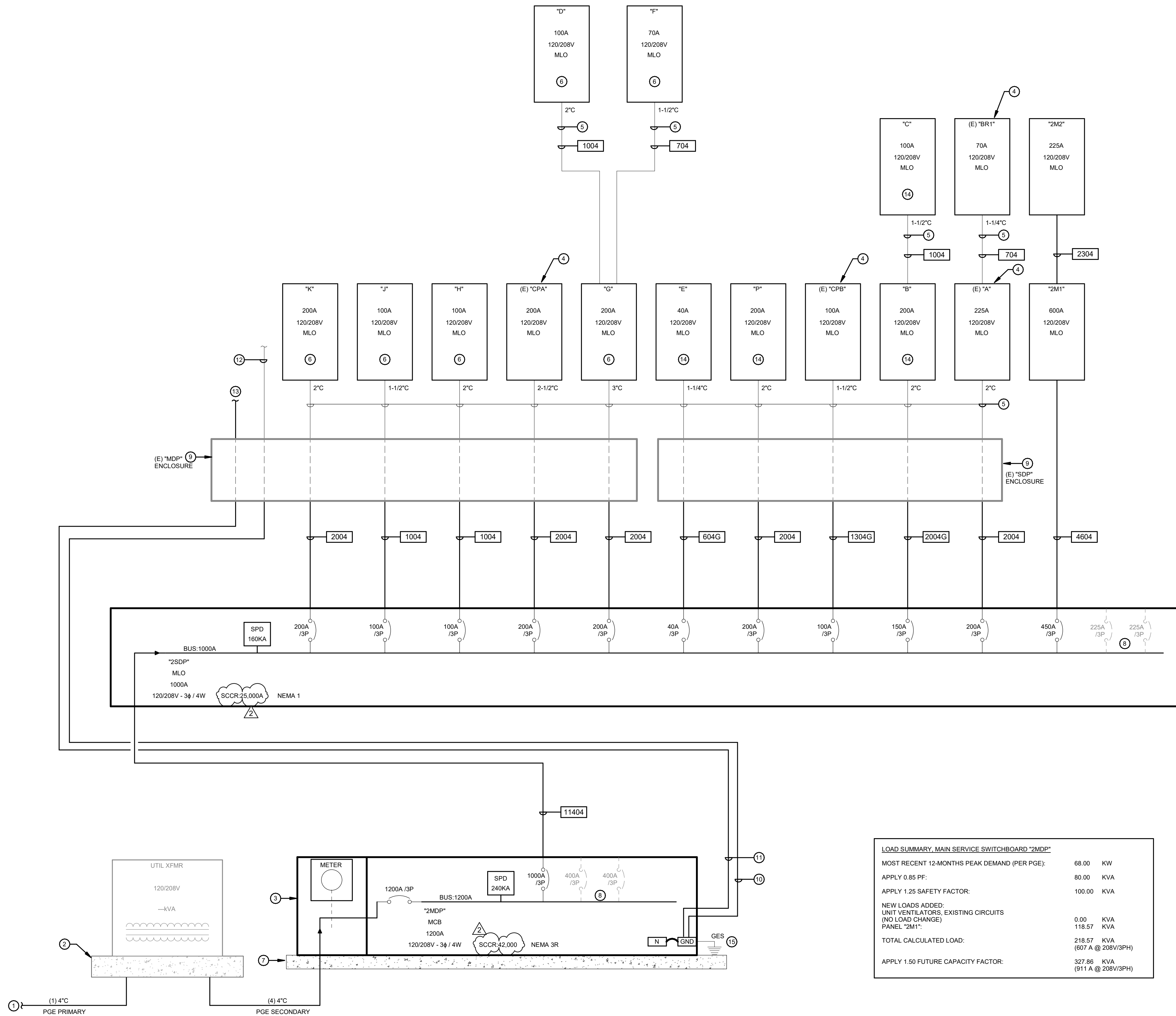
Sheet Title
SITE PLAN

Drawing No.
A1.01

Scale As indicated

Date MARCH 04, 2020

Project No. 19-0012



ELECTRICAL RISER DIAGRAM NOTES

- DIAGRAM INDICATES OVERALL LAYOUT OF ELECTRICAL DISTRIBUTION SYSTEM. REFER TO FLOOR PLANS FOR EQUIPMENT LOCATIONS.
- WIRING SHALL BE COPPER UNLESS INDICATED OTHERWISE.
- NEUTRAL CONDUCTOR SIZE SHALL MATCH THE PHASE CONDUCTORS UNLESS OTHERWISE NOTED.
- ALL WIRING SHALL BE IN CONDUIT UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR CONDUIT APPLICATION REQUIREMENTS.
- EXISTING PANELS SHALL HAVE EXISTING FEEDER CONDUCTORS REMOVED TO SOURCE. EXISTING BRANCH CIRCUIT CONDUCTORS SHALL REMAIN. MARK EXISTING BRANCH CIRCUIT CONDUCTORS, PULL BACK AND RETERMINATE AT NEW PANEL OR NEW PANEL INTERIOR. PROVIDE ALL PANELS WITH NEW FEEDER AS SCHEDULED.
- REPLACEMENT PANELS WITH NEW ENCLOSURE: ADJUST CONDUIT ENTRIES TO MATCH NEW PANEL ENCLOSURE DIMENSION. FOR FLUSH PANELS, REMOVE, PATCH AND PAINT GYP WALL FINISH PER ARCHITECTURAL REQUIREMENTS.
- NEW AND EXISTING ELECTRICAL EQUIPMENT SHALL BE PROVIDED WITH NEW ENGRAVED PLASTIC LAMINATE LABEL PER DISTRICT STANDARDS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

ONE-LINE KEY NOTES:

- TO UTILITY POLE, POINT OF CONNECTION PER PGE REQUIREMENTS.
- TRANSFORMER CONCRETE PAD PER PGE REQUIREMENTS.
- UTILITY APPROVED TERMINATIONS AND METERING PROVISIONS.
- EXISTING PANEL TO REMAIN.
- NEW CONDUCTORS IN EXISTING CONDUIT.
- PROVIDE NEW PANELBOARD INTERNAL PARTS IN EXISTING FLUSH MOUNT ENCLOSURE. PROVIDE NEW FLUSH MOUNT HARDWARE, DEAD-FRONT AND LOCKABLE PANEL DOOR.
- EQUIPMENT PAD PER STRUCTURAL REQUIREMENTS. SEE DETAIL 1 SHEET S2.01.
- VERTICAL BUS PROVISIONS FOR FUTURE CIRCUIT BREAKERS, MINIMUM SIZE SHOWN.
- REMOVE ALL WIRING, BUSSING, OVERCURRENT PROTECTION AND COMPONENTS FROM EXISTING DISTRIBUTION ENCLOSURE INTERIOR. ENCLOSURE TO REMAIN AS WIREWAY. ROUTE NEW CONDUCTORS CONTINUOUS, UNSPLICED THROUGH EXISTING ENCLOSURE. INTERCEPT EXISTING CONDUITS AND ROUTE NEW FEEDER CONDUCTORS TO PANELS. SALVAGE INTERIOR PARTS AND COMPONENTS TO OWNER.
- #2 COPPER, GREEN INSULATED TELECOM BONDING CONDUCTOR, 3/4" CONDUIT.
- #3/0 COPPER GROUND, 1" CONDUIT. GROUNDING ELECTRODE SYSTEM TRUNK.
- ROUTE TELECOM BONDING CONDUCTOR IN THROUGH EXISTING MDP WIREWAY AND EXISTING 3/4" CONDUIT, AND CONNECT TO EXISTING MDF GROUND BUS AT MDF ROOM.
- BARE COPPER CONDUCTOR TO BOILER ROOM. BOND TO WATER AND GAS PIPING ENTERING BUILDING.
- REMOVE AND REPLACE EXISTING PANEL AND ENCLOSURE.
- PROVIDE BOND TO ALL AVAILABLE GROUNDING ELECTRODES TO FORM A GROUNDING ELECTRODE SYSTEM PER NEC ART. 250.

1 ONE-LINE DIAGRAM
NOT TO SCALE



YOST GRUBE HALL ARCHITECTURE
707 SW Washington Street | Suite 1200 | Portland, OR 97205
1303 221 0150 | 503 285 0640

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
2	03/23/20	Addendum 2

Sheet Title
ELECTRICAL
ONE-LINE DIAGRAM

Drawing No.
E3.01

Scale As indicated

Date MARCH 04, 2020

Project No. 19-0012

BRANCH PANEL: "K"

LOCATION: HALL2 A144 VOLTAGE: 120/208 Wye SCCR RATING: 18KAIC
 SUPPLY FROM: PHASES: 3 MAINS TYPE: MLO
 MOUNTING: RECESSED WIRES: 4 MAINS RATING: 225 A
 ENCLOSURE: TYPE 1 MCB RATING:

NOTES:
 REPLACEMENT PANEL INTERIOR IN EXISTING ENCLOSURE. REFER TO SPECIFICATIONS AND ONE-LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.

CIRCUIT DESCRIPTION	P	AMP	CKT NO	A	B	C	CKT NO	AMP	P	CIRCUIT DESCRIPTION	
EXISTING LOAD	2	--	30 A	1	0	0	2	20 A	--	1	
				3			4	20 A	--	1	
				5			6	20 A	--	1	
SPARE	3	--	40 A	7	0	0	8	20 A	--	1	
				9			10	20 A	--	1	
				11			12	20 A	--	1	
SPARE	3	--	30 A	13	0	0	14	20 A	--	2	
				15			16	20 A	--	1	
EXISTING LOAD	1	--	20 A	17			18	20 A	--	1	
EXISTING LOAD	1	--	20 A	19	0	0	20	20 A	--	1	
EXISTING LOAD	1	--	20 A	21			22	20 A	--	1	
				23			24	20 A	--	1	
EXISTING LOAD	3	--	40 A	25	0	0	26	15 A	--	2	
				27			28	15 A	--	2	
EXISTING LOAD	2	--	20 A	29			30	20 A	--	1	
				31	0	0	32	20 A	--	1	
EXISTING LOAD	2	--	15 A	33			34	20 A	--	2	
				35			36	20 A	--	1	
EXISTING LOAD	3	--	20 A	37	0	0	38	20 A	--	1	
				39			40	20 A	--	1	
EXISTING LOAD	3	--	20 A	41			42	20 A	--	1	
				0 VA		0 VA		0 VA			
				0 A		0 A		0 A			

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS
				TOTAL CONN. LOAD: 0 VA
				TOTAL EST. DEMAND: 0 VA
				TOTAL CONN.: 0 A
				TOTAL EST. DEMAND: 0 A

NOTES:
 1. EXISTING LOADS SHOWN. NO LOAD CHANGE ON PANEL. SEE LOAD SUMMARY FOR COMPLETE LOAD CALCULATION.

BRANCH PANEL: 2M1

LOCATION: VOLTAGE: 120/208 Wye SCCR RATING: 10KAIC
 SUPPLY FROM: PHASES: 3 MAINS TYPE: MLO
 MOUNTING: SURFACE WIRES: 4 MAINS RATING: 600 A
 ENCLOSURE: TYPE 3R MCB RATING:

NOTES:

CIRCUIT DESCRIPTION	P	AMP	CKT NO	A	B	C	CKT NO	AMP	P	CIRCUIT DESCRIPTION	
GYM DESTRATIFICATION FANS	1	20 A	1	192	1309		2				
MPR DESTRATIFICATION FANS	1	20 A	3		192	1309	4	20 A	3	AHU-1	
CP-1 & 2	1	20 A	5			480	6				
CP-3 & 4	1	20 A	7	480	4359		8				
UV-B100 & B102	1	20 A	9		1512	4359	10	45 A	3	CU-1 (MODULE 1)	
UV-B116 & B118	1	20 A	11			1512	12				
DDC/VRF PANELS	1	20 A	13	0	3314		14				
REC - NORTH YARD	1	20 A	15		180	3314	16	35 A	3	CU-1 (MODULE 2)	
CU-4/FCU-1	2	20 A	17			1872	18				
			19	1872	5764		20				
SPARE	1	--	20 A	21		0	22	80 A	3	CU-5	
SPARE	1	--	20 A	23		0	24				
SPARE	1	--	20 A	25	0	0	26	--	--	SPACE	
SPARE	1	--	20 A	27		0	28	--	--	SPACE	
SPACE	--	--	29			0	30	--	--	SPACE	
SPACE	--	--	31	0	0		32	--	--	SPACE	
SPACE	--	--	33		0	0	34	--	--	SPACE	
SPACE	--	--	35			0	36	--	--	SPACE	
SPACE	--	--	37	0	22132		38				
SPACE	--	--	39			0	40	225 A	3	SUB PANEL "2M2"	
SPACE	--	--	41			0	42				
				39423 VA		38583 VA		40563 VA			
				330 A		322 A		339 A			

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS
POWER	118209 VA	100.00%	118209 VA	TOTAL CONN. LOAD: 118569 VA
RECEPTACLE	360 VA	100.00%	360 VA	TOTAL EST. DEMAND: 118569 VA
				TOTAL CONN.: 329 A
				TOTAL EST. DEMAND: 329 A

NOTES:

BRANCH PANEL: "P"

LOCATION: CUSTODIAL OFFICE B161 VOLTAGE: 120/208 Wye SCCR RATING: 10KAIC
 SUPPLY FROM: PHASES: 3 MAINS TYPE: MLO
 MOUNTING: SURFACE WIRES: 4 MAINS RATING: 225 A
 ENCLOSURE: TYPE 1 MCB RATING:

NOTES:

CIRCUIT DESCRIPTION	P	AMP	CKT NO	A	B	C	CKT NO	AMP	P	CIRCUIT DESCRIPTION	
EXISTING LOAD	3	--	20 A	1	0	0	2	30 A	--	3	
				3			4	20 A	--	1	
				5			6	20 A	--	1	
EXISTING LOAD	3	--	20 A	7	0	0	8	20 A	--	1	
				9			10	30 A	--	2	
				11			12	20 A	--	1	
EXISTING LOAD	1	--	20 A	13	0	0	14	20 A	--	1	
EXISTING LOAD	1	--	20 A	15			16	20 A	--	1	
EXISTING LOAD	1	--	20 A	17			18	20 A	--	1	
				19	0	0	20	--	--	SPACE	
EXISTING LOAD	3	--	90 A	21			22	--	--	SPACE	
				23			24	--	--	SPACE	
SPACE	--	--	25	0	0		26	--	--	SPACE	
SPACE	--	--	27		0	0	28	--	--	SPACE	
SPACE	--	--	29			0	30	--	--	SPACE	
				0 VA		0 VA		0 VA			
				0 A		0 A		0 A			

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS
				TOTAL CONN. LOAD: 0 VA
				TOTAL EST. DEMAND: 0 VA
				TOTAL CONN.: 0 A
				TOTAL EST. DEMAND: 0 A

NOTES:
 1. EXISTING LOADS SHOWN. NO LOAD CHANGE ON PANEL. SEE LOAD SUMMARY FOR COMPLETE LOAD CALCULATION.

BRANCH PANEL: 2M2

LOCATION: VOLTAGE: 120/208 Wye SCCR RATING: 10KAIC
 SUPPLY FROM: 2M1 PHASES: 3 MAINS TYPE: MLO
 MOUNTING: SURFACE WIRES: 4 MAINS RATING: 225 A
 ENCLOSURE: TYPE 3R MCB RATING:

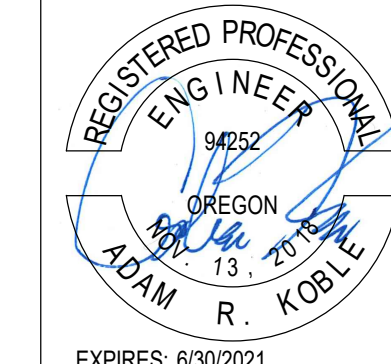
NOTES:

CIRCUIT DESCRIPTION	P	AMP	CKT NO	A	B	C	CKT NO	AMP	P	CIRCUIT DESCRIPTION	
CU-2 (MODULE 1)	3	60 A	1	6617	0		2	--	--	SPACE	
			3		6617	0	4	--	--	SPACE	
			5			6617	6	--	--	SPACE	
CU-2 (MODULE 2)	3	60 A	7	6617	0		8	--	--	SPACE	
			9		6617	0	10	--	--	SPACE	
			11			6617	12	--	--	SPACE	
CU-3 (MODULE 1)	3	45 A	13	4359	0		14	--	--	SPACE	
			15		4359	0	16	--	--	SPACE	
			17			4359	18	--	--	SPACE	
CU-3 MODULE (2)	3	45 A	19	4359	0		20	--	--	SPACE	
			21		4359	0	22	--	--	SPACE	
			23			4359	24	--	--	SPACE	
REC - SOUTH YARD	1	20 A	25	180	0		26	--	--	SPACE	
SPARE	1	--	20 A	27		0	28	--	--	SPACE	
SPARE	1	--	20 A	29			30	--	--	SPACE	
				22132 VA		21952 VA		21952 VA			
				184 A		183 A		183 A			

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS
POWER	65857 VA	100.00%	65857 VA	TOTAL CONN. LOAD: 66037 VA
RECEPTACLE	180 VA	100.00%	180 VA	TOTAL EST. DEMAND: 66037 VA
				TOTAL CONN.: 183 A
				TOTAL EST. DEMAND: 183 A

NOTES:



YOST GRUBE HALL ARCHITECTURE
 707 SW Washington Street | Suite 1200 | Portland, OR 97205
 1303 221 0150 | 503 286 0640

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

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

MARK	DATE	DESCRIPTION
2	03/23/20	Addendum 2

Sheet Title
 PANEL SCHEDULES

Drawing No.

E3.04

Scale

Date MARCH 04, 2020

Project No. 19-0012