

February 6, 2014

City of Eugene
99 West 10th Avenue
Eugene, Oregon 97401
(541) 682-5086
(541) 682-5593 FAX
www.eugene-or.gov

Eric Philps
ericp@serapdx.com
SERA Architects
338 NW 5th
Portland, Oregon

RE: PROJECT DESCRIPTION: Interior renovation & expansion for craft center
PROJECT ADDRESS: 1395 University
CITY LOG NUMBER: 13-06663-01

City staff has completed an initial review of the plans you submitted to the City of Eugene for building permit issuance. Some review items require supplemental information. These issues need to be individually addressed in a response letter with attachments and revised drawings as necessary. In order to complete all reviews and issue a construction permit, all issues must be completely addressed.

Those items preceded by an asterisk (*) will be noted on the approved plans and require no action at this time or need to be resolved during construction.

ELECTRICAL REVIEW COMMENTS:

Name: Joe Goschie, 541-501-0919 joe.k.goschie@ci.eugene.or.us

- E1. *These electrical plans are NOT reviewed prior to permit issuance. Electrical work shall comply with current codes and will be field-inspected for compliance.
- E2. The name of your electrical contractor will be required at permit issuance. Also, an electrical application for this electrical work needs signed by the supervising electrician and submitted to this office. For your convenience, the electrical permit will be issued in conjunction with the other permits for this project; however, the electrical permit and electrical inspection will be on hold until the application is received.

PLUMBING REVIEW COMMENTS:

Name: Andy Parsons, 541-501-1119 andy.h.parsons@ci.eugene.or.us

- P1. P1. The "Reduction of Lead in Drinking Water Act" is now in effect. Please show compliance with this new law by including in the specifications the requirement for all of the brass system components in the potable water delivery piping to meet one of the two "Lead-Free" NSF standards, NSF/ANSI 372 or NSF/ANSI 61-G. PUBLIC LAW 111-380
- P2. On PC502, a photography lab is shown, with several sinks included. Typically acid-resistant waste pipe material is installed to handle the photo process chemicals used in these labs. Please

verify this lab's waste will be diluted enough to not harm the drainage system, or revise. OPSC 811.

- P3. On PC502, oxygen and acetylene piping are shown in the welding shop. Couldn't find any specifications for this piping. To what standard is this piping to be installed? Please clarify and specify materials and process, and provide detail for the cylinder storage location and restraint.
- P4. On PC100, detail 2 does not match the civil plan CC100. It shows a 2" vent POC near line 10 that serves what? Drains shown on civil plan but not on plumbing plan. Several POC's on civil not shown on plumbing... Please revise or clarify.
- P5. On PC100 there are two solids interceptors shown. It appears that SI-1's discharge is piped through SI-2 also. Is this the intent? Please clarify or revise. OPSC 1016
- P6. Is the SI-2 shown on PC502 also designated as "Switching Station SS-1" on the civil plan? Detail 4/CC101 does not show or indicate switching discharge from storm sewer to sanitary sewer, and could not find a description in the spec's. Please clarify and provide details and spec's describing the system, and it's method of operation.
- P7. Please provide water pipe sizing calculations for the entire building water system renovations and additions. OPSC 610
- P8. The name of the plumbing contractor will need to be provided for the plumbing permit. If this information is not available at the time of permit issuance, the plumbing permit will be issued. The plumbing permit and plumbing inspection will be on hold until this information is provided.

LAND USE REVIEW COMMENTS:

Name: Katharine Kappa, 541-682-5309 katharine.h.kappa@ci.eugene.or.us

Approved

PUBLIC WORKS REVIEW COMMENTS:

Name: Louranah Janeski, 541-682-5273 louranah.janeski@ci.eugene.or.us

- PW1) The proposed project and its wastewater plan are currently under review by Public Works Wastewater. Additional measures may be required to separate, monitor, and treat the Craft Center's process flow wastewater. Additional comments will be sent as soon as possible.
- PW2) Please clarify the extent of the roof area over the exterior glass studio space and clarify how the floor drains in both the exterior glass and metals areas will drain (see Plumbing comment above).
- PW3) * Some improvements, such as the catchbasin at the north end of Olive are marked on the plans as "temporary," since the future phases of the EMU work will redesign that area. The word "temporary" will be crossed out. All improvements will be approved and constructed as permanent improvements (were the EMU redevelopment not to progress).
- SDC1) Please provide the following information so that SDC credits can be calculated accurately. Be sure to only provide information for this permit. If information for the overall project is submitted, please be sure to clearly show what work is happening where and under which permit.
- a. A list of all plumbing fixtures to be removed and their location (are they in an office space, a cafeteria space, etc.)
 - b. A list of all proposed fixtures and their locations
 - c. The square footage of any floor area which may be removed
 - d. The square footage of any floor area that may be added

- e. The square footage of the proposed Craft Center space
- SDC2) Will any university (not Craft Center) classrooms be demolished or added with the proposed work?
If so, note the location of the classroom(s) and the number of knee spaces demolished or created.
- SDC3) Provide the following information for all cafeteria and restaurant areas:
 - a. Are the dining areas that are to be demolished open to all students or only to dormitory residents?
 - b. Square footage of the cafeteria/restaurant space
 - c. Be sure to list these plumbing fixtures separately

STORMWATER COMMENTS:

Name: Louranah Janeski (541) 682-5273 louranah.janeski@ci.eugene.or.us

- SM1) Please note that, on March 1st, new stormwater management code language will go into effect. New code will contain a hierarchy requiring green infiltration and filtration systems as first choice options and placing extra fees upon the use of manufactured (manhole) treatment facilities. Manufactured facilities are allowed to be installed if the project is at full build-out, as approvable by Eugene Code, and there remains no room to install above-ground green facilities.
 - a. While large open areas will remain around the EMU, these spaces are student assembly spaces in support of the EMU. Removing a portion of the grassy bowl will reduce the usability of the bowl as an assembly area.
 - b. The grassy bowl and surrounding lawn area are considered structural elements within the design of the EMU and are an integral part of its functions. Removal of lawn areas to integrate a green infiltration or filtration facility into the design is not required.
 - c. Please note that additional fees, in the form of SDCs, will be required under the future permits to take the runoff to the manufactured system. Please see section 9.6792 (3)(d)2 of the Eugene Code. Fee rates are not known at this time.
- SM2) The proposed stormwater treatment manhole system can be approved under this Craft Center permit. The mitigation calculations and basin plans for it, however, cannot be approved, since the mitigated areas are based upon future permits. The additional information about the future work to be mitigated by the system will be noted as for reference only. As those future phases of work are submitted, new stormwater plans and calcs will need to be submitted, showing that the proposed work can still be accommodated in (if actually flowing to it) or mitigated by the treatment system approved under this permit. A running tally should be kept listing each permit number and the amount of impervious draining to or mitigated by the system.
- SM3) The Straub Hall permit was approved with notes on the utility plan that some stormwater piping was to be "installed with a deferred maintenance project." Is any work required to the Straub Hall site under this permit?
- SM4) Regarding Sheet 3 of the Stormwater Management packet:
 - a. The Tree Credit Tree area is approvable.
 - b. Straub Hall is included in the area draining to the proposed treatment system, but it is shown as a pavement area. If the roof area is known, please note it.
 - c. Is any roof area from the building east of Straub Hall draining to the new treatment manhole? If so, please add this area to the plans and calculations.
 - d. Please clearly list a square footage for the amount of impervious surfaces (list existing and proposed separately) that will be directed to the new CDS unit under this Craft Center permit.
 - e. Please clearly note how all new Straub Hall impervious surfaces (building permit 13-02005-01 to -03) were treated and list the square footages for any surfaces that were required to be treated under this new CDS unit. Note how those surfaces draining to the north were to be treated.
 - f. Far-removed impervious surfaces such as the walkways in the quad west of Straub Hall cannot be granted as mitigation credits for drainage to the proposed treatment manhole. Such areas, were they proposed, would only be said to be draining to the manhole to facilitate the review, knowing that runoffs would be caught by the adjacent landscaping instead. If you wish to receive credit for these pavements, the adjacent landscaping may be designated as Vegetated Filter Strips. Provide revised

calcs and a plan showing the Strips along the walkways. The Strips may be used as mitigation for future improvements as well.

- SM5) Regarding Sheet 5 of the stormwater packet:
- There is a difference in shading on the A1 basin? If this is intended, please provide a key and explanation.
 - A "total area managed" is listed in the table. Is this area the impervious area plus the pervious area?
- SM6) Please provide a plan in the stormwater management packet identifying by genus and species each of the tree credits trees. If known, please also provide their caliper.
- SM7) Are any new or relocated trash and/or recycling enclosure areas proposed?
- SM8) The utility plan, sheet CC100, does not show the proposed curbing along Olive, nor does it show the new ramp down to the passageway under the EMU. Please revise the utility plan to show how the ramp will be collected and taken to the stormwater treatment system.
- SM9) The utility plan, sheet CC100 does not show the drainage within the EMU bowl area (at the NW corner of the building). Show on the utility plans all areas that are draining to the proposed stormwater treatment system.
- SM10) Provide a fullsize utility sheet to be included within the building permit document set that shows the drainage system within the overall development area. Only the small 11 ½ x 17 sheets submitted for the stormwater management packet show the drainage connections to the new treatment manhole.
- SM11) Please note that plans should identify the make and model of the proposed treatment manhole. Any revised plans should include this information. Also, the make and model should be identified in the calculation tables.
- SM12) The Contech CDS2020 unit is approvable for a total impervious area of 213,787 SF, as listed on sheet 5 of the stormwater management packet.

FIRE MARSHAL COMMENTS:

Name: Keith Haggas, 541-682-5261 keith.a.haggas@ci.eugene.or.us

- F1. Provide information about the existing dust collection unit showing where it is being relocated, clearances around the unit, discharge orientation and how it is being anchored. OFC Ch. 13 & OMSC 511
- F2. Provide woodshop dust collection exhaust calculations showing the velocity required within the system and explain how required minimum velocity will be maintained. OFC Ch. 13 & OMSC 511
- F3. Not all of the equipment in the woodshop is connected to the dust-collection system, notably
- W04 Scroll Saw
 - W08 Mortiser
 - W18 Mortiser
 - W09 Band Saw
 - W07 Drill Press
 - W03 Panel Saw

Please provide information about this equipment and explain why they are not connected to dust collection, or provide dust-collection at this equipment. OFC Ch. 13 & OMSC 511

- F4. Provide information about W21 Dust Collector MUA filters showing the efficiency rating and how it is monitored for adequate air flow. OMSC 511.1.3

- F5. *The fire sprinkler system shall be designed to NFPA 13 standards. A minimum of three sets of shop drawings with hydraulic calculations and product submittals must be submitted and approved prior to installation of the sprinkler system. The city will retain two sets of drawings. OFC 903.1, OFC 903.4
- F6. *The fire alarm system shall be designed to the requirements of OFC 907 and NFPA 72 standards. A minimum of three sets of shop drawings with equipment cut sheets, voltage drop, and battery calculations shall be submitted and approved prior to installation of the system. The city will retain two sets of drawings. OFC 907.1.1

ARCHITECTURAL COMMENTS:

Name: Steve McGuire, 541-682-6800 steve.w.mcguire@ci.eugene.or.us

- A1. The set of plans submitted has two (2) sheets AC101 and is missing sheet AC110.
- A2. Please provide a plumbing analysis for compliance with OSSC chapter 29. The area where the class room is moving to is changing from offices (1/200 ratio per table 29-A to 1/50 ratio per table 29-A). The resulting change of use in this area increases the occupant load which requires an analysis to show that there are adequate plumbing fixtures.
- A3. Please justify the B occupancy for the woodshop. What is the amount of combustible dust and combustible fiber in this area?
- A4. Please provide details of the dust collection system and dust collection components; hood, ducting exhaust, termination and make-up air.
- A5. Installation manuals for craft center equipment shall be on site for inspection.
- A6. Controls for equipment being used in the craft center shall be at accessible heights and within reach ranges.
- A7. *Per State of Oregon Interpretation No: 2007 OSSC Section 1613.1 new ceiling prescriptive construction of suspended ceiling systems is allowed as provided in this interpretation. If an existing ceiling system does not have seismic bracing to this requirement, see section VI of the interpretation for upgrade requirements. The interpretation can be found by clicking on *Suspended Ceiling Installation* found at http://www.cbs.state.or.us/bcd/programs/structural_interps_by_date.html

Sheet GC003:

- A8. The Mechanical room shows an occupant load of 2 yet the cumulative load is shown as 12. Please clarify.
- A9. Please clarify the building analysis for the type 1A type of construction. (OSSC table 503)
- A10. The lobby and the north-south corridor in the area of work on the lower level of the EMU is currently part of the exit system. The proposed craft center eliminates the north-south exit corridor and changes the lobby exiting. Please show that the remainder of the lower level of the EMU has compliant exiting without this north-south corridor the changes to the lobby.
- A11.

Sheet AC117

- A12. The south wall, indicated as a non-rated corridor wall (01C) appears to a component of a stair enclosure requiring a 1-hour fire resistant rating. Please clarify or revise documents.

Sheet AC150

- A13. Door S007 appears to be a door into a stair enclosure that is required to be 1-hour fire rated (OSSC 715 & 1022). The door schedule shows this door as non-rated. Please revise or clarify.

Sheet AC401

- A14. Ship ladder details shall be submitted for review for compliance with OSSC 1009.11. This can be submitted as a deferred submittal.
- A15. Please provide a detail of the connection of the 1-hour fire rated shaft to the roof deck above. The roof deck at this location is a fluted pan deck.

Sheet EC 200

- A16. Please clarify that the exterior light at the discharge location of the south stair enclosure (OSSC 1006.1 & 1006.3) is connected to back-up power.
- A17. There are exit signs above doors 030CA out of the jewelry room and a similar door out of the ceramics room (sheet AC110 is missing from the set being reviewed). This suggests an exiting system different than that shown on sheet GC003. Please revise plans for consistency.
- a) Where exiting out the jewelry and glass room is accumulated with the occupant load of the "outside glass" room, room 030B requires two exits. Please clarify and make any necessary revisions.
 - b) Where room 030B requires two exits, the entire room 030B requires back up power for egress illumination. Please revise drawings.

Structural

- A18. Please provide a copy of the geo-technical report referenced on page 1 section 00-31-00 of the Package 1 Project Manual.
- A19. Snow load Calculation sheet TR-1 shows $P_g = 11$ psf. OSSC section 1608 indicates that P_g shall be determined using "Snow Load Analysis for Oregon", 2207 edition. In no case shall p_g be less than 20 psf. Please revise calculations and plans for the 20 psf loading and drift snow load.
- A20. Sheet TR-7 shows that the lateral loads are calculated for an enclosed structure which is a reasonable approach. It would seem important to consider the building as an open or partially enclosed building as well for increased uplift forces and outward forces at connections. Please clarify if this the building addition meets the definition of an enclosed structure ASCE 7-05 section 6.2.
- A21. Sheet SC150 reference the addition and renovation package for the outside dust collection structure. Please provide the engineering and construction documents as part of the craft center. The dust collection is integral to the wood working operation and shall be installed and approved as part the woodworking relocation and improvements.
- A22. Sheet SC150 note 12: Micro-pile design and shop drawings shall be submitted for review and approval prior to installation. Since the micro piles are part of the foundation system, this information needs to be submitted, reviewed and approved prior to permit issuance.
- A23. Sheet SC152 indicates that the maximum mechanical unit weight is 18,000 pounds. The weight of MUA-M is shown as 20000 pounds on sheet MC001. Please resolve this inconsistency and revise drawings/calculations as necessary.

Mechanical

- M1. Please provide a separate plan showing the dust collection system in the wood shop, identifying equipment connected to the dust collection system. Please provide technical data sheets on all

equipment being installed. Please provide information on the construction of the hoods in this area.

- a) Please provide the technical data for the dust collector filters W21
 - b) Please provide construction details of hoods over wood working equipment.
 - c) Please provide information showing that the dust collection system is in compliance with OMSC section 511.
- M2. Please provide anchoring details of hoods and equipment. Equipment weighing more than 400 pounds and not supported on the floor shall have engineering calculations for anchoring details.
- M3. Please provide support and bracing details for UH-1.
- M4. Sheet MC100 grid line 5.7: There is an 8" rd. duct between area A and area B. What is this duct for and where does it terminate?
- M5. Detail 9/MC901 shows all thread rods connecting to structure above. What is the connection of the rod to the structure above? What is the seismic bracing associated with the installation of this equipment?
- M6. Please provide details of the hood over the "pickler" in the jewelry room.
- M7. The anticipated ventilation occupant load and occupancy ventilation design methods shall be documented on the plans (OSSC 403.3) Please provide this information on the plans.
- M8. Please provide information on the location of condensate disposal (OMSC 307).
- M9. Please clarify the termination point of the exhaust for the ceramic kilns (sheet MC601 note 1). The termination shall be located where it will not cause a nuisance (OMSC 501.2)
- M10. Please provide information of the existing equipment being relocated. Such as the dust collector supply air and filters (sheet MC 601 note 6).

Please keep the following in mind when submitting your response:

- Please provide a response letter address each and every plan review issue. Provide with attachments and revised drawings as necessary.
- Please submit five (5) copies of the supplemental information for review. Attach a cover sheet and reference your city log number on your submittal.
<http://www.eugene-or.gov/DocumentCenter/View/1016> .

NOTE: It is very helpful to "cloud" revised information if the submittal contains both new and previously submitted information. "Clouded" revisions and an item by item response letter results in quicker review of supplemental information.

- The applicant will be charged an additional plan check fee at the rate of \$95.92 per hour (\$47.96 minimum per submittal).
- If you have any questions regarding the information requested above or if you would like to inquire about the status of your project, please contact me at (541) 682-6800.

Sincerely,

STEVE MCGUIRE

Steve McGuire
Project Coordinator

REFERENCE CODES:

OSSC Oregon Structural Specialty Code, 2010 Edition (2009 IBC with Oregon Amendments)

OMSC	Oregon Mechanical Specialty Code, 2010 Edition (2009 IMC with Oregon Amendments and the 2009 IFGC as an appendix)
OEESC	Oregon Energy Efficiency Specialty Code, 2010 Edition (based on the 2009 IECC)
OPSC	Oregon Plumbing Specialty Code, 2008 Edition (2006 Uniform Plumbing Code, Chapters 2 through 11, 13, 14, 15 and 16; and Appendices A, B, D, E, J, and I;
OESC	Oregon Electrical Specialty Code, 2008 Edition (2008 NEC with Oregon Amendments)
OFC	Oregon Fire Code, 2010 Edition (2009 IFC with Oregon Amendments and Eugene Amendments)
EC	Eugene Code 1971 with Updates
SMM	City of Eugene Stormwater Management Manual

CHECKSHEET RESPONSE

City Number : **13-06663-01**

Review Date : **February 6, 2014**

Commercial Building Permit

To:	Applicant	University of Oregon Martina Oxby Campus Planning & Real Estate 1295 Franklin Blvd. Eugene OR 97403 TEL: (360)-553-8843	e-mail:	moxby@uoregon.edu
From:	Architect	SERA Architects Eric Philps 338 NW Fifth Portland OR 97209 TEL: (503) 445-7372 FAX: (503) 445-7395	e-mail:	ericp@serapdx.com
cc:	Civil	Balzhiser & Hubbard 100 W 13th Ave Eugene, OR 97401 TEL: (541) 686-8478 FAX: (541) 345-5303	e-mail:	Geoff Larsen glarsen@bhengineers.com
	Landscape	Cameron McCarthy 160 E Broadway Eugene, OR 97401 TEL: (541) 485-7385 FAX: (541) 485-7389	e-mail:	Larry Gilbert Larry@cameronmccarthy.com
	Structural	ABHT Structural Engineers 1640 NW Johnson St Portland, OR 97209 TEL: (503) 243-6682 FAX: (503) 243-6622	e-mail:	Clinton Ambrose clinton@abht-structural.com
	MEP	Glumac 900 SW Fifth Ave, Suite 1600 Portland, OR 97204 TEL: (503) 227-5280 FAX: (503) 274-7674	e-mail:	Rob Schnare – Mechanical rschnare@glumac.com Todd Kolibaba – Plumbing tkolibaba@glumac.com Ron Bayles – Electrical rbayles@glumac.com

PROJECT INFORMATION	
Street Address:	University of Oregon 1395 University Street Eugene Oregon 97403
Description of Work:	Tenant improvement/alteration

City staff has completed an initial review of the plans you submitted to the City of Eugene for building permit issuance. Some review items require supplemental information. These issues need to be individually addressed in a response letter with attachments and revised drawings as necessary. In order to complete all reviews and issue a construction permit, all issues must be completely addressed.

Those items preceded by an asterisk (*) will be noted on the approved plans and require no action at this time or need to be resolved during construction.

Item #	Location on plans	Review Comment	Clarification / Correction Required
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Electrical Review Comments

E1		*These electrical plans are NOT reviewed prior to permit issuance. Electrical work shall comply with current codes and will be field-inspected for compliance.	Comment only, no response required.
E2		The name of your electrical contractor will be required at permit issuance. Also, an electrical application for this electrical work needs signed by the supervising electrician and submitted to this office. For your convenience, the electrical permit will be issued in conjunction with the other permits for this project; however, the electrical permit and electrical inspection will be on hold until the application is received.	Electrical contractor will need to coordinate with city. No response required.

Plumbing Review Comments

P1	PC000	The "Reduction of Lead in Drinking Water Act" is now in effect. Please show compliance with this new law by including in the specifications the requirement for all of the brass system components in the potable water delivery piping to meet one of the two "Lead-Free" NSF standards, NSF/ANSI 372 or NSF/ANSI 61-G. PUBLIC LAW 111-380	Have added a note in the general notes on PC000, please see updated sheet, Please see attached spec section 222113/ 1.4/ 3.
P2	PC502, GC030	On PC502, a photography lab is shown, with several sinks included. Typically acid-resistant waste pipe material is installed to handle the photo process chemicals used in these labs. Please verify this lab's waste will be diluted enough to not harm the drainage system, or revise. OPSC 811.	The photography lab will dilute the chemicals; this will not harm the drainage system. See HMIS report on GC030.
P3	PC502	On PC502, oxygen and acetylene piping are shown in the welding shop. Couldn't find any specifications for this piping. To what standard is this piping to be installed? Please clarify and specify materials and process, and provide detail for the cylinder storage location and restraint.	Removed Acetylene & Oxygen piping from the welding shop and jewelry, Please see updated PC502.
P4	PC100	On PC100, detail 2 does not match the civil	Please see updated drawing, The vent has been removed,

		plan CC100. It shows a 2" vent POC near line 10 that serves what? Drains shown on civil plan but not on plumbing plan. Several POC's on civil not shown on plumbing... Please revise or clarify.	please see civil drawings
P5	PC100	On PC100 there are two solids interceptors shown. It appears that SI-1's discharge is piped through SI-2 also. Is this the intent? Please clarify or revise. OPSC 1016	SI-1 is for trapping clay in the interior ceramics studio. SI-2 is for trapping any metal or glass that may get into the floor drains at the outdoor program areas.
P6	PC502	Is the SI-2 shown on PC502 also designated as "Switching Station SS-1" on the civil plan? Detail 4/CC101 does not show or indicate switching discharge from storm sewer to sanitary sewer, and could not find a description in the spec's. Please clarify and provide details and spec's describing the system, and it's method of operation.	<p>SI-2 is not designated as a switching station.</p> <p>SI-2 in the plumbing drawings and SS-1 in the civil drawings are separate structures. For clarity, a representation of SI-2 has been added to the civil drawings for reference.</p> <p>The purpose of Switching Station SS-1 is to divert drainage from possible wash-down operations to the sanitary sewer system. Under normal operating conditions, stormwater runoff from the northern uncovered portion of the work area will be routed through the sand interceptor portion of SS-1, and will drain by gravity to the storm drain system. Prior to wash-down activities, users will manually activate a switch located at the hose bibb that would be used for wash-down. The switch will activate a sump pump located in the downstream chamber of SS-1, which will pump wash-down water to the sanitary sewer system. The switch will run the sump pump for a fixed duration to ensure all water washing enters the sanitary sewer. SS-1 is shown on Detail 4/CC101 and specified in Section 33 40 00.</p> <p>SI-1 and SI-2 serve areas covered by building roofs, as shown on the plumbing drawings.</p>
P7	PC001	Please provide water pipe sizing calculations for the entire building water system renovations and additions. OPSC 610	A water calculation has been added for this T.I. to PC001.
P8		The name of the plumbing contractor will need to be provided for the plumbing permit. If this information is not available at the time of permit issuance, the plumbing permit will be issued. The plumbing permit and plumbing inspection will be on hold until this information is provided.	Plumbing contractor will need to coordinate with the city.

Public Works Review Comments

PW1		The proposed project and its wastewater plan are currently under review by Public Works Wastewater. Additional measures may be required to separate, monitor, and treat the Craft Center's process flow wastewater. Additional comments will be sent as soon as possible.	Duke DeClue, Senior Industrial Source Control Inspector, provided comments to the project team by email on 01/29/14. The comments requested that all craft center wastewater be segregated from other wastewater generated within the building, and requested a sampling point external to the building. The plumbing plans have been revised to segregate craft center drainage, and the sanitary sewer (SS) manhole No. 1 (shown on CC100) will serve as an adequate sampling point. The size and configuration of the manhole sampling point has been tentatively approved by Duke DeClue and UO EH&S.
PW2		Please clarify the extent of the roof area over the exterior glass studio space and clarify how the floor drains in both the exterior glass and metals areas will drain (see Plumbing comment above).	The roof overhang is shown on CC100 as a dashed line just above the "CRAFT CENTER OUTDOOR COURT" text. The deck drain collecting runoff from this area drains to SS-1, which has been described above in the response to P6.

PW3		<p>* Some improvements, such as the catchbasin at the north end of Olive are marked on the plans as “temporary,” since the future phases of the EMU work will redesign that area. The word “temporary” will be crossed out. All improvements will be approved and constructed as permanent improvements (were the EMU redevelopment not to progress).</p>	<p>All “temporary” and “temp” language within the drawings has been removed.</p>
SDC1		<p>Please provide the following information so that SDC credits can be calculated accurately. Be sure to only provide information for this permit. If information for the overall project is submitted, please be sure to clearly show what work is happening where and under which permit.</p> <ol style="list-style-type: none"> A list of all plumbing fixtures to be removed and their location (are they in an office space, a cafeteria space, etc.) A list of all proposed fixtures and their locations The square footage of any floor area which may be removed The square footage of any floor area that may be added <p>The square footage of the proposed Craft Center space</p>	<p>For this permit, all removed fixtures are shown on DPC 101 as removed from an existing office space.</p> <ol style="list-style-type: none"> Removed fixtures shown on DPC101 include: <ul style="list-style-type: none"> 3 WC's 2 Urinals 4 Lavatories 2 Floor drains All proposed fixtures are shown on AC100 and itemized on SDC fixture check sheet submitted on 12/20/13 with permit drawings. No floor area has been removed No floor area has been added. The area of exterior cover and improvements is negligible. <p>The proposed craft center TI will take up 8,300 sq. ft. of existing space on ground level.</p>
SDC2		<p>Will any university (not Craft Center) classrooms be demolished or added with the proposed work? If so, note the location of the classroom(s) and the number of knee spaces demolished or created.</p>	<p>No classroom spaces will be added under this permit.</p>
SDC3		<p>Provide the following information for all cafeteria and restaurant areas:</p> <ol style="list-style-type: none"> Are the dining areas that are to be demolished open to all students or only to dormitory residents? Square footage of the cafeteria/restaurant space <p>Be sure to list these plumbing fixtures separately</p>	<p>No cafeteria or restaurant areas are added under this permit. Comment is noted for future phases when this work is initiated.</p>

Stormwater Comments

SM1		<p>Please note that, on March 1st, new stormwater management code language will go into effect. New code will contain a hierarchy requiring green infiltration and filtration systems as first choice options and placing extra fees upon the use of manufactured (manhole) treatment facilities. Manufactured facilities are allowed to be installed if the project is at full build-out, as approvable by Eugene Code, and there remains no room to install above-ground green facilities.</p> <ul style="list-style-type: none"> a. While large open areas will remain around the EMU, these spaces are student assembly spaces in support of the EMU. Removing a portion of the grassy bowl will reduce the usability of the bowl as an assembly area. b. The grassy bowl and surrounding lawn area are considered structural elements within the design of the EMU and are an integral part of its functions. Removal of lawn areas to integrate a green filtration or filtration facility into the design is not required. <p>Please note that additional fees, in the form of SDCs, will be required under the future permits to take the runoff to the manufactured system. Please see section 9.6792 (3)(d)2 of the Eugene Code. Fee rates are not known at this time.</p>	<p>Comment noted. No response required. The project team requests that City staff provide information and rough order of magnitude estimate of fees.</p>
SM2		<p>The proposed stormwater treatment manhole system can be approved under this Craft Center permit. The mitigation calculations and basin plans for it, however, cannot be approved, since the mitigated areas are based upon future permits. The additional information about the future work to be mitigated by the system will be noted as for reference only. As those future phases of work are submitted, new stormwater plans and calcs will need to be submitted, showing that the proposed work can still be accommodated in (if actually flowing to it) or mitigated by the treatment system approved under this permit. A running tally should be kept listing each</p>	<p>Comment noted. No response required.</p>

		permit number and the amount of impervious draining to or mitigated by the system.	
SM3		The Straub Hall permit was approved with notes on the utility plan that some stormwater piping was to be "installed with a deferred maintenance project." Is any work required to the Straub Hall site under this permit?	No stormwater work related to Straub Hall is under this permit.
SM4		<p>Regarding Sheet 3 of the Stormwater Management packet:</p> <ol style="list-style-type: none"> The Tree Credit Tree area is approvable. Straub Hall is included in the area draining to the proposed treatment system, but it is shown as a pavement area. If the roof area is known, please note it. Is any roof area from the building east of Straub Hall draining to the new treatment manhole? If so, please add this area to the plans and calculations. Please clearly list a square footage for the amount of impervious surfaces (list existing and proposed separately) that will be directed to the new CDS unit under this Craft Center permit. Please clearly note how all new Straub Hall impervious surfaces (building permit 13-02005-01 to -03) were treated and list the square footages for any surfaces that were required to be treated under this new CDS unit. Note how those surfaces draining to the north were to be treated. <p>Far-removed impervious surfaces such as the walkways in the quad west of Straub Hall cannot be granted as mitigation credits for drainage to the proposed treatment manhole. Such areas, were they proposed, would only be said to be draining to the manhole to facilitate the review, knowing that runoffs would be caught by the adjacent landscaping instead. If you wish to receive credit for these pavements, the adjacent landscaping may be designated as Vegetated Filter Strips. Provide revised calcs and a plan showing the Strips along the walkways. The Strips may be used as mitigation for future improvements as well.</p>	<ol style="list-style-type: none"> No response required. The areas for existing impervious roof surface to receive treatment and existing ground level impervious surface to receive treatment have been revised to account for the Straub Hall roof area. As part of Addendum 1, the contributing drainage area for the CDS was increased to include part of the McLure Hall roof. This change is reflected in the attached stormwater management report and figures. The following is a summary of the attached revised documents: <u>Exhibits:</u> 1A, 1B, 2A, 2B, 3, and 5 (Replace with Attached) <u>Appendix B:</u> Replace with attached table. <u>Page 4 of Stormwater Report:</u> Replace with attached page 4. Table 1-A and 1-B have been revised, and the "Source Control" section has been revised to reflect the added trash enclosure. The total existing impervious surface draining to the CDS unit after completion of Package 1 will be 212,909 ft². Of that, the total new impervious surface draining to the CDS unit will be 10,083 ft². As discussed with City staff, the Straub Hall project is a stand-alone project that does not rely on the proposed EMU treatment structure for meeting treatment requirements. The new and existing impervious surfaces shown in Exhibits 1A through 5 represent the best estimate of pervious and impervious surfaces draining to the proposed treatment structure, assuming the Straub Hall project has already been constructed. The walkways in the quad west of Straub Hall have been removed from the Mitigation Credits calculations.
SM5		<p>Regarding Sheet 5 of the stormwater packet:</p> <ol style="list-style-type: none"> There is a difference in shading on the A1 basin? If this is intended, please provide a key and explanation. <p>A "total area managed" is listed in the table. Is this area the impervious area plus the pervious area?</p>	<ol style="list-style-type: none"> The apparent difference in shading for portions of Basin A1 is the result of the way our CAD software rendered the PDF when it was plotted. The shading should be homogeneous. The "total area managed" listed in the table does consist of both the total impervious and pervious areas.

SM6		Please provide a plan in the stormwater management packet identifying by genus and species each of the tree credits trees. If known, please also provide their caliper.	Caliper size, genus, and species have been added to all of the tree credit trees on Exhibit 3 of the stormwater report. This exhibit is intended for reference only to show how the full buildout condition will meet the intent of the 2014 code amendments. We are not applying for tree credits for this permit package, but we will for future packages.
SM7		Are any new or relocated trash and/or recycling enclosure areas proposed?	A trash enclosure has been added to the project since the time of initial permit application. Supporting documentation and drawing revisions are attached. The trash enclosure will be covered and hydraulically isolated with an interior drain to sanitary sewer.
SM8		The utility plan, sheet CC100, does not show the proposed curbing along Olive, not does it show the new ramp down to the passageway under the EMU. Please revise the utility plan to show how the ramp will be collected and taken to the stormwater treatment system.	As coordinated with City stormwater staff, notes have been added to the CC100 to clarify the drainage patterns.
SM9		The utility plan, sheet CC100 does not show the drainage within the EMU bowl area (at the NW corner of the building). Show on the utility plans all areas that are draining to the proposed stormwater treatment system.	As coordinated with City stormwater staff, notes have been added to the CC100 to clarify the drainage patterns.
SM10		Provide a fullsize utility sheet to be included within the building permit document set that shows the drainage system within the overall development area. Only the small 11 ½ x 17 sheets submitted for the stormwater management packet show the drainage connections to the new treatment manhole.	As coordinated with City stormwater staff, notes have been added to the CC100 to clarify the drainage patterns. In addition, a map has been added to drawing [xxxx] to show the overall basin area contributing to the stormwater treatment structure.
SM11		Please note that plans should identify the make and model of the proposed treatment manhole. Any revised plans should include this information. Also, the make and model should be identified in the calculation tables.	The make and model of the proposed treatment manhole have been included in the utility drawing and calculations tables.
SM12		The Contech CDS2020 unit is approvable for a total impervious area of 213,787 SF, as listed on sheet 5 of the stormwater management packet.	Comment noted. Please note that, as part of Addendum 1, the area draining to the CDS2020 has increased, as shown on the attached revised Exhibit 5.

Fire Marshall Comments

F1	AC100	Provide information about the existing dust collection unit showing where it is being relocated, clearances around the unit, discharge orientation and how it is being anchored. OFC Ch. 13 & OMSC 511	<p>The dust collector enclosure/trash/bike parking structure has been included as part of AB 4. Finalized details for the dust collection unit and installation will be provided as a deferred submittal to address comment F1.</p> <p>Temporary installation of the dust collection unit will comply with OFC Ch. 13 & OMSC 511 and all mfg. recommendations as provided on site w/ equipment data requested by comment A5.</p>
F2	AC100	Provide woodshop dust collection exhaust calculations showing the velocity required within the system and explain how required minimum velocity will be maintained. OFC Ch. 13 & OMSC 511	<p>Exhaust ductwork has been sized for airflow velocities between 1500 and 2000 fpm. See product cut sheet located in on site manual for additional info and detail.</p> <p>The dust collector enclosure/trash/bike parking structure has been included as part of AB 4. Finalized details for the dust collection unit and installation will be provided as a deferred submittal to address comment F1.</p>
F3		Not all of the equipment in the woodshop is connected to the dust-collection system,	Drops shown on plans are for individual pieces of equipment or clusters of equipment. Owner will furnish nozzles and point of use extraction hoses to individual pieces of equipment. The

		<p>notably</p> <ul style="list-style-type: none"> - W04 Scroll Saw - W08 Mortiser - W18 Mortiser - W09 Band Saw - W07 Drill Press - W03 Panel Saw <p>Please provide information about this equipment and explain why they are not connected to dust collection, or provide dust-collection at this equipment. OFC Ch. 13 & OMSC 511</p>	<p>intent is for all equipment to be exhausted when in use. For equipment not provided with a dedicated exhaust drop, a general exhaust drop has been provided at the floor level, this allows the users to sweep up dust from equipment not provided with dedicated hoods and exhaust to dust collection bins, refer to MC100a.</p>
F4		<p>Provide information about W21 Dust Collector MUA filters showing the efficiency rating and how it is monitored for adequate air flow. OMSC 511.1.3</p>	<p>The following information is available for the relocated dust collector system:</p> <ul style="list-style-type: none"> Collector external cartridge filters (2) 2 pleated cartridges – 260 sf Spun Bonded polyester BIA ZH1 / 487 test – Rated C Captures 99.99% over 20 microns Captures 99.9% of material between 0.2 – 2.0 microns @ 11 fpm <p>Exhaust ductwork has been sized for airflow velocities between 1500 and 2000 fpm. See product cut sheet for additional info and detail.</p>
F5		<p>*The fire sprinkler system shall be designed to NFPA 13 standards. A minimum of three sets of shop drawings with hydraulic calculations and product submittals must be submitted and approved prior to installation of the sprinkler system. The city will retain two sets of drawings. OFC 903.1, OFC 903.4</p>	<p>Sprinkler system is being designed and provided by the mechanical contractor and noted as a deferred submittal on GC 001.</p>
F6		<p>*The fire alarm system shall be designed to the requirements of OFC 907 and NFPA 72 standards. A minimum of three sets of shop drawings with equipment cut sheets, voltage drop, and battery calculations shall be submitted and approved prior to installation of the system. The city will retain two sets of drawings. OFC 907.1.1</p>	<p>Electrical contractor will need to submit fire alarm installation drawings. No response required.</p>

Architectural Comments

A1	AC101, AC110	<p>The set of plans submitted has two (2) sheets AC101 and is missing sheet AC110.</p>	<p>Sheet AC110 has been provided and clouded as Addendum 1</p>
A2	GC003, GC001	<p>Please provide a plumbing analysis for compliance with OSSC chapter 29. The area where the class room is moving to is changing from offices (1/200 ratio per table 29-A to 1/50 ratio per table 29-A). The resulting change of use in this area increases the occupant load which requires an analysis to show that there are adequate plumbing fixtures.</p>	<p>Plumbing fixture requirements have been indicated on GC003 and noted as a deferred submittal on GC001. Items are clouded as delta 4.</p>
A3	GC001	<p>Please justify the B occupancy for the woodshop. What is the amount of combustible dust and combustible fiber in this area?</p>	<p>Existing use is a B and the new use is similar w/ different equipment. Combustible dust is not stored in the space. Dust will be contained outside and removed using a dust collection system to be issued as a deferred submittal. Fiber storage is limited to the two closet locations shown on AC116 and AC115.</p>
A4	GC001	<p>Please provide details of the dust collection system and dust collection components; hood, ducting exhaust, termination and</p>	<p>The dust collector enclosure/trash/bike parking structure has been included as part of AB 4. Finalized details for the dust collection unit and installation will be provided as a deferred</p>

		make-up air.	submittal to address comment F1.
A5		Installation manuals for craft center equipment shall be on site for inspection.	Manuals will be on site for inspection.
A6		Controls for equipment being used in the craft center shall be at accessible heights and within reach ranges.	Controls to be mounted at accessible heights within reach ranges.
A7		*Per State of Oregon Interpretation No: 2007 OSSC Section 1613.1 new ceiling prescriptive construction of suspended ceiling systems is allowed as provided in this interpretation. If an existing ceiling system does not have seismic bracing to this requirement, see section VI of the interpretation for upgrade requirements. The interpretation can be found by clicking on <i>Suspended Ceiling Installation</i> found at http://www.cbs.state.or.us/bcd/programs/structural_interps_by_date.html	Comment is noted.

GC003

A8	GC003	The Mechanical room shows an occupant load of 2 yet the cumulative load is shown as 12. Please clarify.	GC003 has been revised and clouded delta 4.
A9	GC003	Please clarify the building analysis for the type 1A type of construction. (OSSC table 503)	In previous meetings with the city, the existing building was discussed as being of Type I FR construction. Existing drawing sets over the years vary on this point. Type I A construction appears to be the current code equivalent and is conservative in terms of required ratings. The project will pursue a construction type change for the entire building as part of the larger renovation and addition, this has not yet been submitted to the City.
A10	GC003	The lobby and the north-south corridor in the area of work on the lower level of the EMU is currently part of the exit system. The proposed craft center eliminates the north-south exit corridor and changes the lobby exiting. Please show that the remainder of the lower level of the EMU has compliant exiting without this north-south corridor the changes to the lobby.	1/GC003 includes an updated exiting diagram for this phase of work

AC117

A12	AC117	The south wall, indicated as a non-rated corridor wall (01C) appears to a component of a stair enclosure requiring a 1-hour fire resistant rating. Please clarify or revise documents.	This has been revised; a 1 hour wall is indicated on 1/AC117 and the assembly is on sheet AC001.
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AC150

A13	AC150	Door S007 appears to be a door into a stair enclosure that is required to be 1-hour fire rated (OSSC 715 & 1022). The door schedule shows this door as non-rated. Please revise or clarify.	AC900 has been revised and clouded updating door S007 as 60 min.
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AC401

A14	AC150	Ship ladder details shall be submitted for	Clarified this item as a deferred submittal on GC001.
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		review for compliance with OSSC 1009.11. This can be submitted as a deferred submittal.	
A15	AC150	Please provide a detail of the connection of the 1-hour fire rated shaft to the roof deck above. The roof deck at this location is a fluted pan deck.	Additional detail has been provided on AC804.

EC200

A16	EC200	Please clarify that the exterior light at the discharge location of the south stair enclosure (OSSC 1006.1 & 1006.3) is connected to back-up power.	90 minute battery packs will be provided to power existing exterior canopy lights as requested.
A17	EC200	<p>There are exit signs above doors 030CA out of the jewelry room and a similar door out of the ceramics room (sheet AC110 is missing from the set being reviewed). This suggests an exiting system different than that shown on sheet GC003. Please revise plans for consistency.</p> <p>a) Where exiting out the jewelry and glass room is accumulated with the occupant load of the "outside glass" room, room 030B requires two exits. Please clarify and make any necessary revisions.</p> <p>Where room 030B requires two exits, the entire room 030B requires back up power for egress illumination. Please revise drawings.</p>	<p>a. Exit signs shown on EC200 will be relocated to exit doors shown on GC003 for Glass and Ceramics.</p> <p>b. Requirement for Outdoor Metal coverage will be reviewed. Egress lighting has been provided. Also see occupant load revisions on GC003.</p>

Structural

A18		Please provide a copy of the geo-technical report referenced on page 1 section 00-31-00 of the Package 1 Project Manual.	A copy of the geotechnical report will be provided by SERA
A19		Snow load Calculation sheet TR-1 shows Pg = to 11 psf. OSSC section 1608 indicates that PG shall be determined using "Snow Load Analysis for Oregon", 2207 edition. In no case shall pg be less than 20 psf. Please revise calculations and plans for the 20 psf loading and drift snow load.	<p>With regard to the ground snow load, section 1608.2 of the 2010 OSSC states that "The ground snow loads to be used in determining the design snow loads for buildings and other structures shall be as shown in the <i>Snow Load Analysis for Oregon</i>, as published by the Structural Engineers Association of Oregon, December 2007, sections:</p> <ul style="list-style-type: none"> • The Oregon map contained in the manual • Part I, Section, "Use of Map." <p>Part I directs the user to Appendix B where ground snow loads for individual stations can be obtained. ABHT obtained the ground snow load of 11 psf from Appendix B in accordance with the instructions in Part I. The 20 psf minimum ground snow load is referenced under the Exception in section 1608.2. ABHT's design does not utilize the adjustments described under the Exception. Therefore, the use of the 11 psf ground snow load is warranted.</p>
A20		Sheet TR-7 shows that the lateral loads are calculated for an enclosed structure which is a reasonable approach. It would seem important to consider the building as an open or partially enclosed building as well for increased uplift forces and outward forces at connections. Please clarify if this the building addition meets the definition of an enclosed structure ASCE 7-05 section 6.2.	Please reference the attached calculation which verifies that the enclosure meets the classification as an enclosed structure.
A21		Sheet SC150 reference the addition and renovation package for the outside dust	The additional structural plans and details will be provided in a later submittal as noted. See Architectural for location of

		collection structure. Please provide the engineering and construction documents as part of the craft center. The dust collection is integral to the wood working operation and shall be installed and approved as part the woodworking relocation and improvements.	temporary dust collection facilities in conjunction with manufacturers standard cut sheet and details as requested by comments A4 & A5.
A22		Sheet SC150 note 12: Micro-pile design and shop drawings shall be submitted for review and approval prior to installation. Since the micro piles are part of the foundation system, this information needs to be submitted, reviewed and approved prior to permit issuance.	Contractor to submit bidder design micro pile calculations and drawings for approval.
A23		Sheet SC152 indicates that the maximum mechanical unit weight is 18,000 pounds. The weight of MUA-M is shown as 20000 pounds on sheet MC001. Please resolve this inconsistency and revise drawings/calculations as necessary.	The unit weight on the Mechanical drawings was incorrect. It will be revised to not exceed 18,000-lbs.

Mechanical

M1		<p>Please provide a separate plan showing the dust collection system in the wood shop, identifying equipment connected to the dust collection system. Please provide technical data sheets on all equipment being installed. Please provide information on the construction of the hoods in this area.</p> <p>a) Please provide the technical data for the dust collector filters W21</p> <p>b) Please provide construction details of hoods over wood working equipment.</p> <p>c) Please provide information showing that the dust collection system is in compliance with OMSC section 511.</p>	<p>a) Technical manuals for all equipment will be on site for inspection.</p> <p>b) Separate dust collection plan provided, refer to MC100a. To clarify, woodworking equipment is connected via dust collection hoses to the dust collection ducting. Typical equipment hoods are not used in the woodshop.</p> <p>The Owner has compiled all of the technical data on equipment being installed. This will be provided as supplementation documentation.</p> <p>Hoods are to be furnished by the owner. Location on plans and approximate dimensions have been shown for coordination and documentation of adequate face velocities.</p> <p>c) Refer to sheet notes on MC100a</p>
M2		Please provide anchoring details of hoods and equipment. Equipment weighing more than 400 pounds and not supported on the floor shall have engineering calculations for anchoring details.	Anchoring details are a deferred submittal, refer to 230548 - vibration and seismic. Refer to 230500 - Supports and Anchors for all non seismic support systems.
M3		Please provide support and bracing details for UH-1.	Anchoring details are a deferred submittal, refer to 230548 - vibration and seismic. Refer to 230500 - Supports and Anchors for all non seismic support systems.
M4	MC100	Sheet MC100 grid line 5.7: There is an 8" rd. duct between area A and area B. What is this duct for and where does it terminate?	Notes added to MC100 for clarification.
M5	MC901	Detail 9/MC901 shows all thread rods connecting to structure above. What is the connection of the rod to the structure above? What is the seismic bracing associated with the installation of this equipment?	Anchoring details are a deferred submittal, refer to 230548 - vibration and seismic. Refer to 230500 - Supports and Anchors for all non seismic support systems.
M6		Please provide details of the hood over the "pickler" in the jewelry room.	Refer to MC902 for hood details.
M7		The anticipated ventilation occupant load and occupancy ventilation design methods shall be documented on the plans (OSSC 403.3) Please provide this information on	Refer to MC300 for ventilation calculation

		the plans.	
M8		Please provide information on the location of condensate disposal (OMSC 307).	Refer to MC101m for condensate routing to floor sink.
M9		Please clarify the termination point of the exhaust for the ceramic kilns (sheet MC601 note 1). The termination shall be located where it will not cause a nuisance (OMSC 501.2)	Refer to MC601 for direction to terminate exhaust above roof line and 10' away from any building openings.
M10		Please provide information of the existing equipment being relocated. Such as the dust collector supply air and filters (sheet MC 601 note 6).	Technical manuals for all equipment will be on site for inspection. Additional detail for the dust collector installation will be provided via. Deferred submittal.