



ONSITE SANITATION City of Portland – Bureau of Development Services
1900 SW 4th Avenue, Portland, Oregon 97201 – 503-823-6892 – TTY 503-823-6868 – www.portlandoregon.gov/bds
SEPTIC REVIEW CERTIFICATION (Land Use/Planning)

Land Use/Planning and Zoning approval involving new construction or addition to any building(s), any change in use, and the creation of a new parcel or property line adjustment requires approval by the Sanitarian.

STEP 1- Complete the following:

Address of Proposed Work: 31520 E Woodard Rd, Troutdale, OR 97060

Property Map & Tax Lot #: 1S4E05AB-00200 Alternate Acct #: R R994050530

Description of proposed work for this Septic Planning Review Septic system upgrade with more primary tank volume, new treatment system, and drainfield expansion.

Change in number of bedrooms? Yes No # of existing bedrooms 0 # of bedrooms at completion 0

Applicant's Name Matt Alexander

Applicant E-mail matt@lowercolumbiaengr.com

Mailing Address 58640 McNulty Way Phone _____

City St. Helens State Oregon ZIP 97051

Permit No. 21-05-8812-SE
Date 8/3/2021

STEP 2- Submit with current **Sanitation Evaluation application**, for each lot affected along with all required checklist items listed on the application. Refer to the current Sanitation Evaluation application for current fee for Septic Planning Review "with site visit".

Sanitation Evaluation Application available for download at www.portlandoregon.gov/bds/ Septic – Sanitation Evaluation Application or Multnomah County Land Use Planning Office**

Mail or deliver completed Sanitation Evaluation Submittal package to:
City of Portland, Bureau of Development Services, Trade Permits
1900 SW 4th Ave., First Floor, Portland, OR 97201
For questions please call 503-823-6892

STEP 3- Review: After submittal, allow up to 20 business days for submittal application package review

STEP 4- Site Visit: Sanitarian will contact you with any questions and/or time of site visit

STEP 5- Sign Off: Based on present knowledge of the area, and current regulations of the State of Oregon Department of Environmental Quality (DEQ), the Sanitarian hereby finds that the above proposal is:

- Approved – will not impact the existing system. The following is **REQUIRED** prior to Building Permit issuance:
 - Septic Installation Permit
 - Authorization Notice

Conditions/Comments:

Proposed Woodard School with a maximum occupancy of 175 total occupants (150 students + 25 staff) poses no concern to septic. No showers, gymnasium, or cafeteria are proposed. Primary + replacement drainfield areas must be fenced + protected from demolition + construction activities.

Lindsey Reschke
Multnomah County Sanitarian

8/3/2021
Date

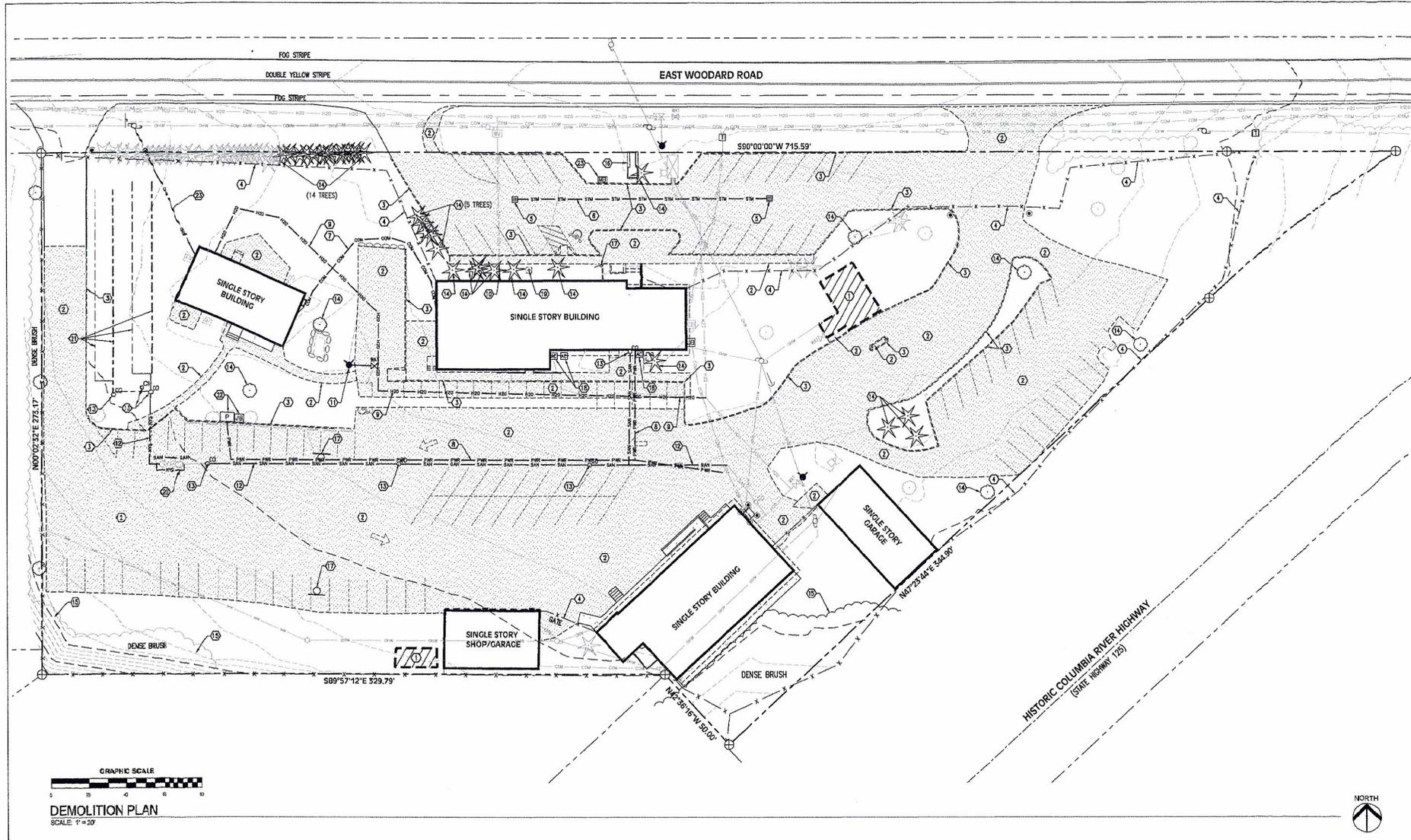
STEP 6- Return: to Multnomah County Land Use Office with this signed form and site plan (floor plans if applicable)

Corbett School District
Woodard Campus
31520 East Woodard Road,
Troutdale, OR 97060



Consulted:
LOWER COLUMBIA
ENGINEERING
58840 McNulty Way
St. Helens, OR 97031
503-566-0399
lowercolumbiaenr.com

Revised	Description	Date



GRAPHIC SCALE
0 2 4 6 8 10
DEMOLITION PLAN
SCALE: 1"=20'

PG 3 of 4

DEMOLITION KEYNOTES

- | | | |
|---|--|---|
| 1) DEMOLISH AND DISPOSE OF EXISTING STRUCTURES AND FOUNDATIONS. REMOVE ALL EXISTING CONSTRUCTION MATERIALS TO A POINT SUITABLE FOR SITE AND/OR NEW STRUCTURE FOUNDATION CONSTRUCTION. | 10) REMOVE AND DISPOSE OF EXISTING WATER LINE. | 20) EXISTING SEPTIC TANK TO BE ABANDONED. |
| 2) DEMOLISH AND DISPOSE OF EXISTING CONCRETE AND ASPHALT SIDEWALKS, PAVEMENT, GRAVEL PATHS AND SIMILAR SITE FEATURES WITH SHARED DEMOLITION ZONES. | 11) REMOVE AND DISPOSE OF EXISTING HYDRANT. | 21) PRESERVE EXISTING DRAINFIELD LATERALS FOR USE WITH NEW SEPTIC SYSTEM. |
| 3) REMOVE AND DISPOSE OF EXISTING CONCRETE CURBS. | 12) ABANDON EXISTING SANITARY SEWER LINE. REMOVE PORTIONS OF LINE IN CONFLICT WITH NEW CONSTRUCTION. WHERE REMOVAL TERMINATES, PLUG END OF ABANDONED PIPE. | 22) COORDINATE REMOVAL OF EXISTING ELECTRICAL PANELS WITH PGE. |
| 4) REMOVE AND DISPOSE OF EXISTING CHAIN LINK FENCE, POSTS AND FOOTINGS. | 13) REMOVE EXISTING SANITARY OR STORM CLEANOUT. | 23) REMOVE EXISTING OVERHEAD POWER LINE. |
| 5) REMOVE AND DISPOSE OF EXISTING STORMWATER CATCH BASIN. | 14) REMOVE EXISTING TREE(S). | 24) REMOVE AND DISPOSE OF EXISTING MAIL BOX. |
| 6) ABANDON EXISTING STORM DRAIN PIPE. REMOVE LINES IN CONFLICT WITH NEW CONSTRUCTION. WHERE REMOVAL TERMINATES, PLUG END OF ABANDONED PIPE. | 15) REMOVE EXISTING SHRUBS/BRUSH. | |
| 7) REMOVE AND DISPOSE OF EXISTING COMMUNICATIONS LINE. | 16) EXISTING CONCRETE/ROCK SIGNAGE BASE TO REMAIN (NEW SIGNAGE TO BE ADDED). | |
| 8) REMOVE AND DISPOSE OF EXISTING POWER LINE. | 17) REMOVE AND DISPOSE OF EXISTING SIGN, SIGN POLE AND FOOTING. | |
| 9) ABANDON EXISTING WATER LINE. REMOVE LINES IN CONFLICT WITH NEW CONSTRUCTION. | 18) REMOVE AND DISPOSE OF EXISTING HANG UNIT. | |
| | 19) REMOVE AND RELOCATE OR REPLACE EXISTING FLAG POLE. | |

LEGEND

EDG	EDGE OF GRAVEL	---	SUBJECT PROPERTY LINE
EPF	EDGE OF PAVEMENT	---	ADJACENT PROPERTY LINE
EOC	EDGE OF CONCRETE	---STW---STW---	STORM LINE
TOP	TOP OF PAVEMENT	---SAN---SAN---	SANITARY SEWER LINE
TOC	TOP OF CONCRETE	---H20---H20---	SEPTIC DRAINFIELD LINE
TO/CURB	TOP OF CURB	---COM---COM---	WATER LINE
(E)	EXISTING	---PGE---PGE---	COMMUNICATIONS LINE
(N)	NEW	---BUREL---	BURIED POWER LINE
CO	CLEAN OUT	---X---X---	OVERHEAD POWER LINE
SM	STORM SEWER MANHOLE	---100---	FENCE
SM	SANITARY SEWER MANHOLE	---103---	MAJOR CONTOUR (EXISTING)
TH	FIRE HYDRANT	---105---	MAJOR CONTOUR (NEW)
FD	FIRE DEPARTMENT CONNECTION	---105---	MINOR CONTOUR (NEW)
WT	WATER VALVE	---	CONCRETE
UP	UTILITY POLE	---	AC PAVING
WM	WATER METER	---	PAVING TO BE REMOVED
TP	TELECO PEDESTAL/RISER	---	

21-058812-SE

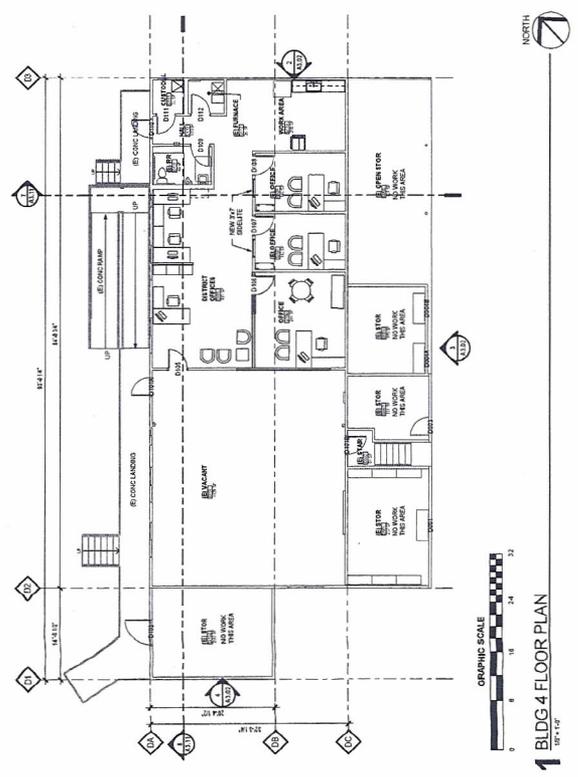
Soderstrom Architects
1100 NW Mississippi Hwy, Suite 610
Portland, OR 97228
Tel: 503.251.6667
Fax: 503.251.6664
www.soderstrom.com

Corbett School District
Woodard Campus
31520 East Woodard Road,
Troutdale, OR 97060



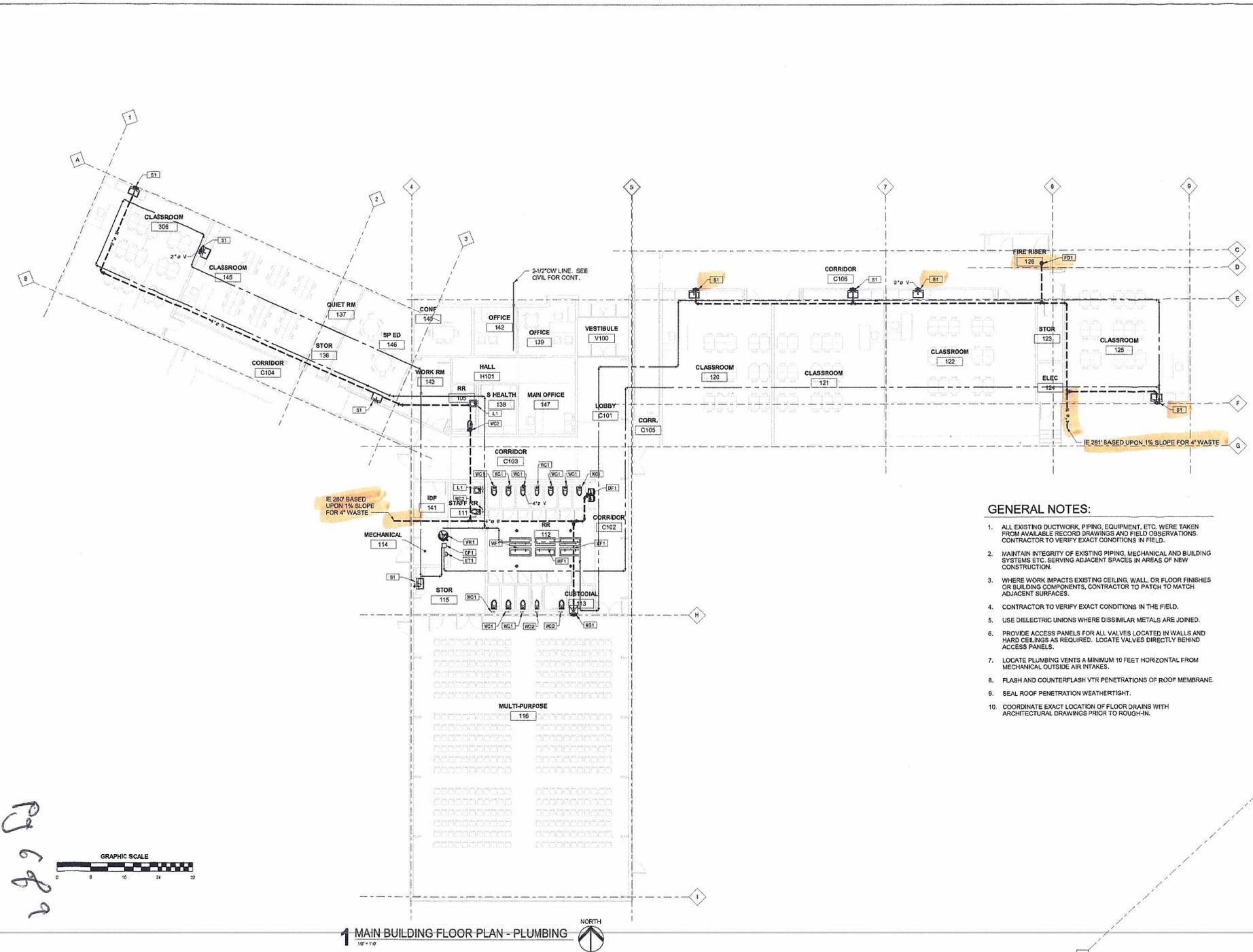
Project: _____
Consultant: _____
Revision: _____
No. Drawings: _____
Date: _____
Sheet No: _____
Project No: _____
20019
Project Name:
**BUILDING 4 FLOOR
PLAN**

A2.02

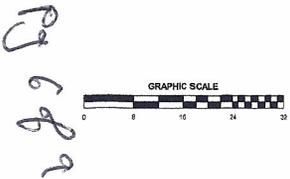


No showers or cafeteria

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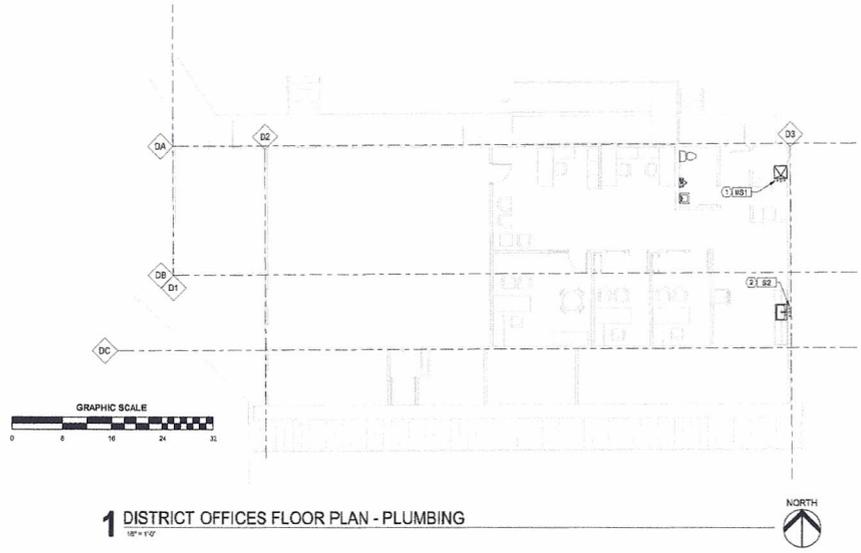
- GENERAL NOTES:**
1. ALL EXISTING DUCTWORK, PIPING, EQUIPMENT, ETC. WERE TAKEN FROM AVAILABLE RECORD DRAWINGS AND FIELD OBSERVATIONS. CONTRACTOR TO VERIFY EXACT CONDITIONS IN FIELD.
 2. MAINTAIN INTEGRITY OF EXISTING PIPING, MECHANICAL AND BUILDING SYSTEMS ETC. SERVING ADJACENT SPACES IN AREAS OF NEW CONSTRUCTION.
 3. WHERE WORK IMPACTS EXISTING CEILING, WALL, OR FLOOR FINISHES OR BUILDING COMPONENTS, CONTRACTOR TO PATCH TO MATCH ADJACENT SURFACES.
 4. CONTRACTOR TO VERIFY EXACT CONDITIONS IN THE FIELD.
 5. USE DIELECTRIC UNIONS WHERE DISSIMILAR METALS ARE JOINED.
 6. PROVIDE ACCESS PANELS FOR ALL VALVES LOCATED IN WALLS AND HARD CEILINGS AS REQUIRED. LOCATE VALVES DIRECTLY BEHIND ACCESS PANELS.
 7. LOCATE PLUMBING VENTS A MINIMUM 10 FEET HORIZONTAL FROM MECHANICAL OUTSIDE AIR INTAKES.
 8. FLASH AND COUNTERFLASH VTR PENETRATIONS OF ROOF MEMBRANE.
 9. SEAL ROOF PENETRATION WEATHERTIGHT.
 10. COORDINATE EXACT LOCATION OF FLOOR DRAINS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.



1 MAIN BUILDING FLOOR PLAN - PLUMBING
1/8" = 1'-0"



21-058812 SE



GENERAL NOTES:

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2. MAINTAIN INTEGRITY OF EXISTING PIPING, MECHANICAL AND BUILDING SYSTEMS ETC., SERVING ADJACENT SPACES IN AREAS OF NEW CONSTRUCTION.
3. WHERE WORK IMPACTS EXISTING CEILING, WALL, OR FLOOR FINISHES OR BUILDING COMPONENTS, CONTRACTOR TO PATCH TO MATCH ADJACENT SURFACES.
4. CONTRACTOR TO VERIFY EXACT CONDITIONS IN THE FIELD.
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9. SEAL ROOF PENETRATION WEATHERTIGHT.
10. COORDINATE EXACT LOCATION OF FLOOR DRAINS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.

NOTES THIS SHEET:

- ① REMOVE EXISTING WATER CLOSET AND LAVATORY. REVISE EXISTING WASTE, VENT, HOT WATER AND COLD WATER AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW WCP SINK.
- ② REMOVE EXISTING UTILITY SINK AND REVISE EXISTING WASTE, VENT, HOT WATER AND COLD WATER TO ACCOMMODATE INSTALLATION OF NEW SINK.

Corbett School District
Woodard Campus
31520 East Woodard Road,
Troutdale, OR 97000



Contractor
GEI PROJECT NO: 21-006
CUNIFF
ENGINEERING, P.C. / CONSULTING ENGINEERS
707 3RD CARROLL LANE SUITE 102
PORTLAND, OREGON 97202
PH 503.551.7266 FX 503.571.7237

Revisions	No.	Description	Date

Stamp
**PRELIMINARY -
NOT FOR
CONSTRUCTION**

Issuance
**100% DESIGN
DEVELOPMENT**
Date
06/18/2021
Project Number
20019

Drawing Title
**DISTRICT OFFICES
FLOOR PLAN -
PLUMBING**

Sheet ID#
P2.1

Pg 7 of 9

21-058812-SE

Buildings 3+5: Open floor plan, no interior plumbing

Reschke, Lindsey

From: Matt <matt@lowercolumbiaenr.com>
Sent: Tuesday, June 29, 2021 12:11 PM
To: Reschke, Lindsey
Subject: RE: Woodard Middle School Septic

Hey Lindsey,

Those buildings are open floor plans and they do not have any interior plumbing. They are used for storage and maintenance equipment. The only thing that is underground in either of them is an existing trench drain outside of building 3 which drains (and will continue to drain) into the stormwater system (not septic).

Thanks,

Matt Alexander
Project Manager/Designer

LOWER COLUMBIA ENGINEERING, LLC
58640 McNulty Way
St. Helens, Oregon 97051
OFFICE 503.366.0399
MOBILE 971.404.4110
WEB www.lowercolumbiaenr.com
EMAIL matt@lowercolumbiaenr.com

From: Reschke, Lindsey <Lindsey.Reschke@portlandoregon.gov>
Sent: Tuesday, June 29, 2021 11:50 AM
To: Matt <matt@lowercolumbiaenr.com>
Subject: RE: Woodard Middle School Septic

Hi Matt,

Quick question – are buildings 3 and 5 open floor plan with no interior plumbing? If they will have rooms and interior plumbing, I will need floor plans for them.

More soon,

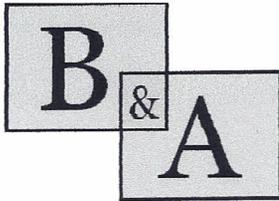
Lindsey Reschke, WWS | Senior Multnomah County Septic Sanitarian
City of Portland | Bureau of Development Services
Site Development Section | Plan Review Services Division
1900 SW 4th Ave., Suite 5000
Portland, OR 97201

lindsey.reschke@portlandoregon.gov
503-823-8786

Work Hours: Monday-Friday, 7:00AM - 3:30PM

Thank you for your patience during this State of Emergency. For the most current information on the Bureau of Development Services' operations during the COVID-19 pandemic, please visit: <https://www.portland.gov/bds>

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Boeger & Associates, LLC

Civil and Environmental - Engineering and Planning

DESIGN FLOW EVALUATION Woodard School – Corbett School District July 9, 2021

The peak design flow for the Woodard School septic system is based on a combination of the potential number of students/staff, the available area for drain field, and the loading rate of the soils. The evaluated area that meets all criteria for primary or replacement drain field will support a design flow is 1,500 gallons per day (gpd). The methodology for this value is presented below.

The maximum number of students was set at 150 for this project. Staff was set at 25, for a total of 175 occupancy. Due to limited area on site that meets the drain field criteria, an existing school in the Corbett School District was evaluated for flow and occupancy.

Springdale School

Springdale School is a middle school in the Corbett School District. It has no showers, gymnasium, or cafeteria. It is therefore a very close approximation to the proposed Woodard School. A discharge monitoring report (DMR) form was obtained for the most recent school year not impacted by Covid 19. The attached DMR form therefore shows average daily flows from January 30th through December 2nd.

A review of this form indicates a peak flow of 334 gpd in the month of November of 2019. The average daily flow over the 9 month school year (does not include 3 months of summer) is calculated to be 227 gpd. The school occupancy over the 2019 school season was 173 students and 13 staff, for a total of 186 people/day.

$227 \times 2 = 454 \text{ gpd max}$
 $(\text{avg} \times 2) = \frac{454}{186} = 2.44 \text{ gal per occupant per day}$

Flow Calculations

multiply peak design flow by 2

The most conservative approach to determine an average flow/person/day is to use the highest daily flow value of 334 gpd. This results in $334 \text{ people/day} / 186 \text{ people/day} = 1.8 \text{ gpd/person}$. This value is then doubled to arrive at a theoretical peak design flow value for new system sizing purposes. Therefore, $1.8 \text{ gpd} \times 2 = \underline{3.6 \text{ gpd peak design flow}}$.

Given a value of 3.6 gpd is lower than what Table 2 in the onsite rules would typically apply, it is proposed to raise this value up to a level that meets the proposed peak design flow of 1,500 gpd. We therefore divide the design flow by the proposed occupancy of the school, which yields:

$8.57 \times 175 = 1499.75$

$1,500 \text{ gpd} / 175 \text{ students/staff} = 8.6 \text{ gal/person/day}$. This value is more than twice what the calculated flow/person is by using the highest recorded average daily flows for any month in 2019, and is therefore proposed to be a conservative sizing for the new drain field system.

- Conservative
- Any possible proposed increases would have data from this facility

$\frac{1450 \text{ LF}}{1500 \text{ gpd}} = \frac{45 \text{ LF}}{150 \text{ gpd}}$
→ 1st + repair DF req'd LF