



**ONSITE SANITATION** City of Portland – Bureau of Development Services  
1900 SW 4<sup>th</sup> 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: Across from 35319 SE Carpenter Lane

Property Map & Tax Lot #: SECTION 22 1S 4E, TL 400, Alternate Acct #: R R994220980, R994220820  
SECTION 22 1S 4E, TL 100

Description of proposed work for this Septic Planning Review Construct a water filtration facility including administration and maintenance buildings, treatment process structures such as filters, basins, and clearwell, as well as general, chemical, and equipment storage.

Change in number of bedrooms?  Yes  No # of existing bedrooms N/A # of bedrooms at completion N/A

Applicant's Name City of Portland Water Bureau - Attn: Christopher Bowker

Applicant E-mail Christopher.Bowker@PortlandOregon.gov

Mailing Address 1120 SW 5th Avenue Rm 40 Phone 503.823.7464

City Portland State Oregon ZIP 97027

Permit No.

22-160016-SE

**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](http://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 4<sup>th</sup> Ave., First Floor, Portland, OR 97201  
For questions please call 503-823-6892

Date

9/20/22

**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 water filtration facility with a projected daily sewage flow of 594 gallons per day poses no concern to septic. Ten max employees per day (7 8hr shift, 3 12hr shift), 30 max visitors per day. Wastes associated with drinking water quality analysis laboratory must be containerized and not enter the septic system.

Only domestic strength wastewater is allowed. Site visit during Site Evaluation Report SER 24-21.

Lindsay Reschke  
Multnomah County Sanitarian

9/20/2022  
Date

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



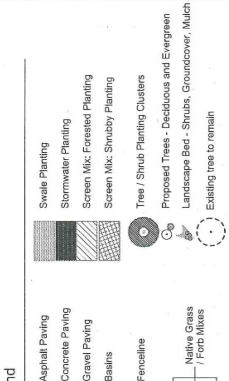
22-160016-SE



KEY PLAN  
Rev 2  
LR

- Sheet Keynotes**
1. Carpenter Lane Entry
  2. Main Facility Entry Gates
  3. Fire Pump Station Enclosure
  4. Rain Water Harvesting Well (Below Grade)
  5. Sump Structure (At Grade)
  6. Sump Structure (At Grade)
  7. Sump Structure (At Grade)
  8. Sump Structure (At Grade)
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  21. Sump Structure (At Grade)
  22. Sump Structure (At Grade)
  23. Sump Structure (At Grade)
  24. Pump Station
  25. Fire Pump Station Enclosure
  26. Rain Water Harvesting Well (Below Grade)
  27. Sump Structure (At Grade)
  28. Sump Structure (At Grade)
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  41. Sump Structure (At Grade)
  42. Sump Structure (At Grade)
  43. Sump Structure (At Grade)

- General Sheet Notes**
1. Site is Zoned MUA-20
  2. No development or construction activity proposed within SEC zones on Filtration Site. Native plant species only allowed for revegetation in these zones.
  3. No development or construction activity proposed within Geohazard Area on Filtration Site.

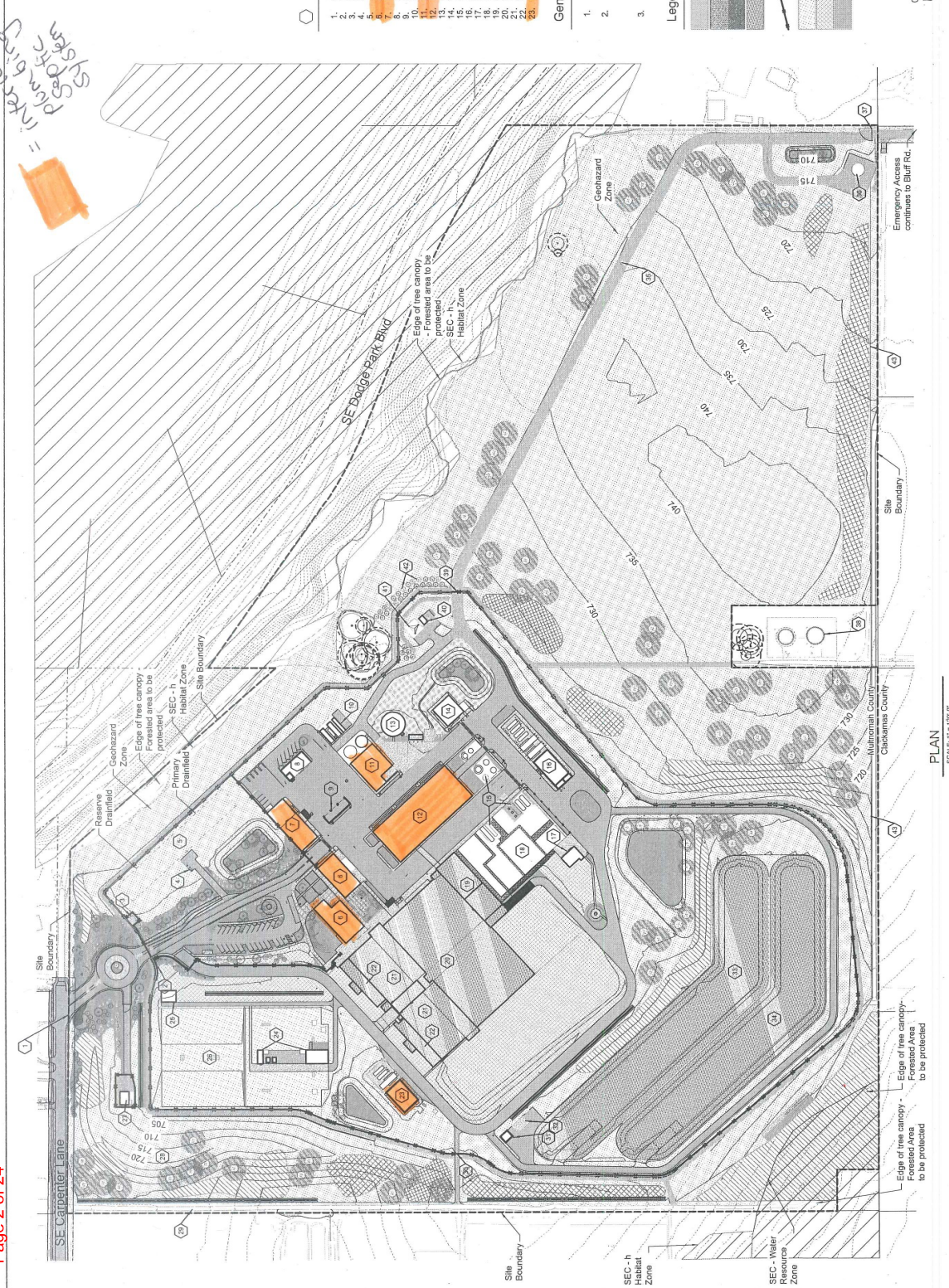


Scale: 1" = 100'

Warranty: 1 Year

Program: 09/08/02

Stantec logo



**PORTLAND WATER BUREAU**

FROM FOREST TO FAUCET

Stantec logo

Scale: 1" = 100'

Warranty: 1 Year

Program: 09/08/02

Stantec logo



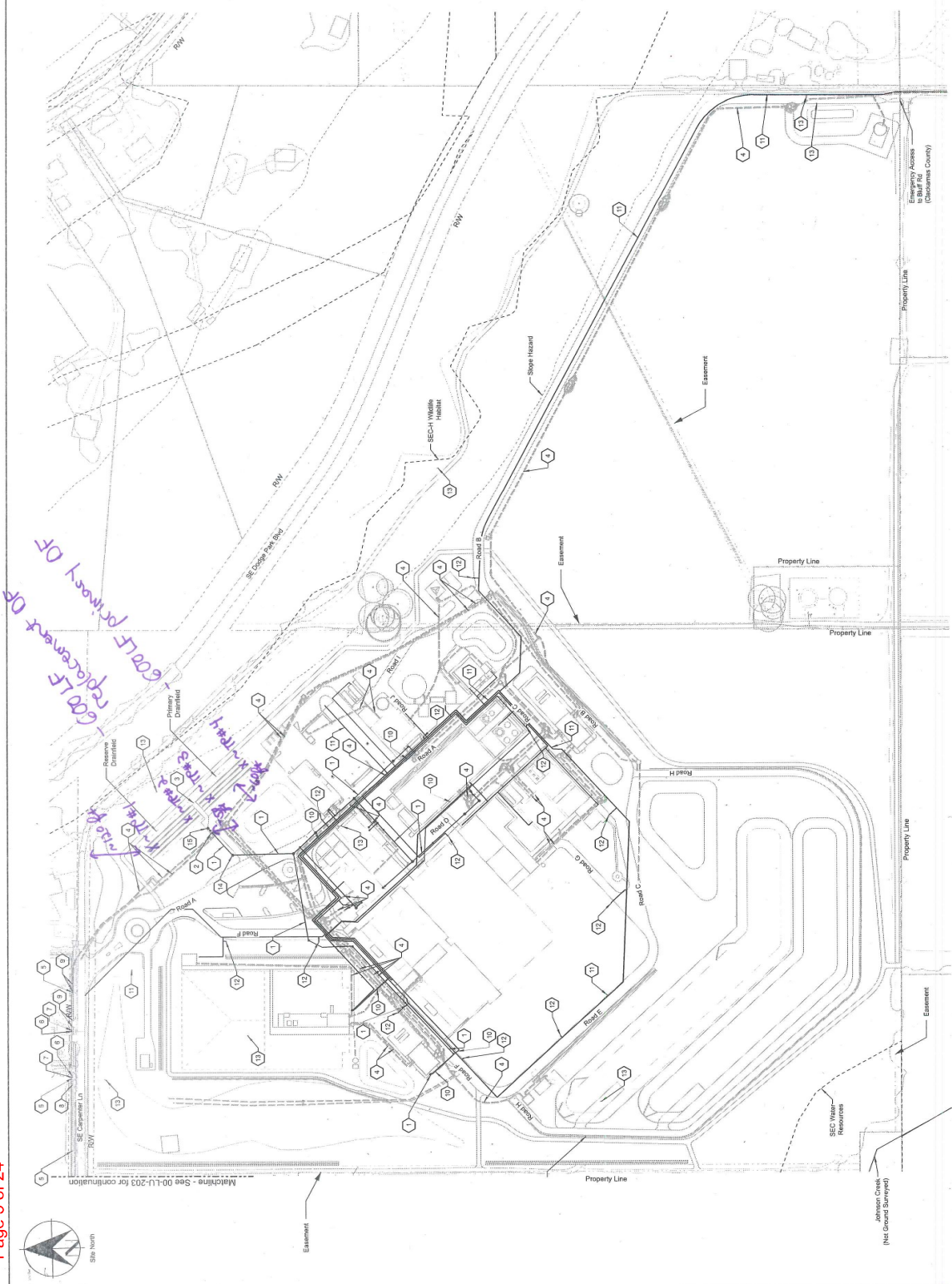
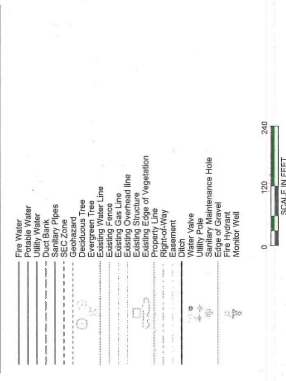
22-160016-SE  
Res 2 *JK*



**General Sheet Notes**

- All existing utilities to remain in place and protected during construction unless otherwise shown on plans.
- See Sheet 00-LU-207 for Stormwater features and pipes.
- Contractor is responsible for the abandonment of the existing placometer (monitor well) in accordance with OAR 820-240. The abandonment shall be done by an Oregon State licensed well driller per OAR 890-005.

- Sheet Keynotes**
- 1. Sanitary Pipes
  - 2. Septic Tank
  - 3. Septic Chamber
  - 4. Duct banks
  - 5. Utility Pole
  - 6. Water Meter
  - 7. Mailbox
  - 8. Gas Valve
  - 9. Light Pole
  - 10. Potable Water
  - 11. Fire Water
  - 12. Fire Hydrant
  - 13. Monitor Well
  - 14. Septic Sewer Lift Station
  - 15. Septic Chasing Tank



Page 3 of 24

Prepared By: Drawn By: Checked By: Project No:	Program No: Civil No: Const No: Date:	09/02/22	Warning If this bar does not measure 1" it is not to scale	<b>Bull Run Filtration Facility</b>  Civil Utility Plan Filtration Facility	
SHEET No: <b>W02229</b> REV: 0001 SHEET No: 3785 / 3786 00-LU-203 3 of 10		David W. Pines, Engineering Manager, PE No. 10833 Date:			

22-16016-SE  
Rev 2-RP

Page 4 of 24



Dedicated ROW

Matchline - See 00-LU-205 for continuation

Discharge to Existing Storm Facility

Flow Spreader to discharge to Johnson Creek

Johnson Creek (Approximate)

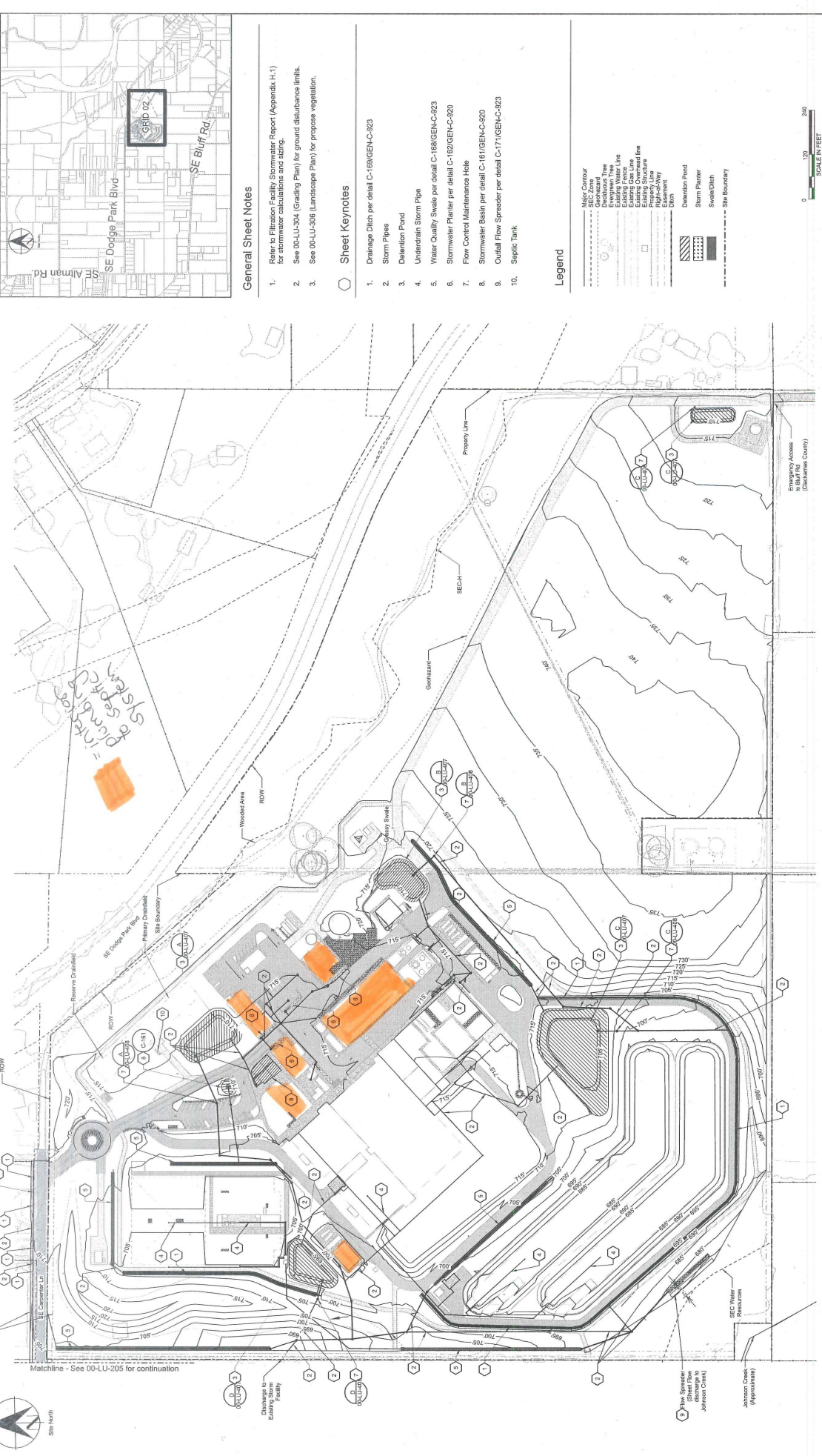
SEC Water Resources

Emergency Access (Bucklame County)

Property Line

Wooded Area

ROW



**KEY PLAN**



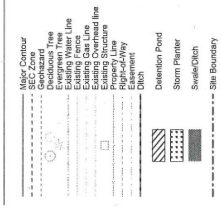
**General Sheet Notes**

1. Refer to Filtration Facility Stormwater Report (Appendix H.1) for stormwater calculations and sizing.
2. See 00-LU-304 (Grading Plan) for ground disturbance limits.
3. See 00-LU-306 (Landscape Plan) for propose vegetation.

**Sheet Keynotes**

1. Drainage Ditch per detail C-169/GEN-C-923
2. Storm Pipes
3. Detention Pond
4. Underdrain Storm Pipe
5. Water Quality Swale per detail C-168/GEN-C-923
6. Stormwater Planter per detail C-162/GEN-C-920
7. Flow Control Maintenance Hole
8. Stormwater Basin per detail C-161/GEN-C-920
9. Outfall Flow Spreader per detail C-171/GEN-C-923
10. Septic Tank

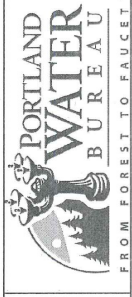
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No.	Date	Description	Revision



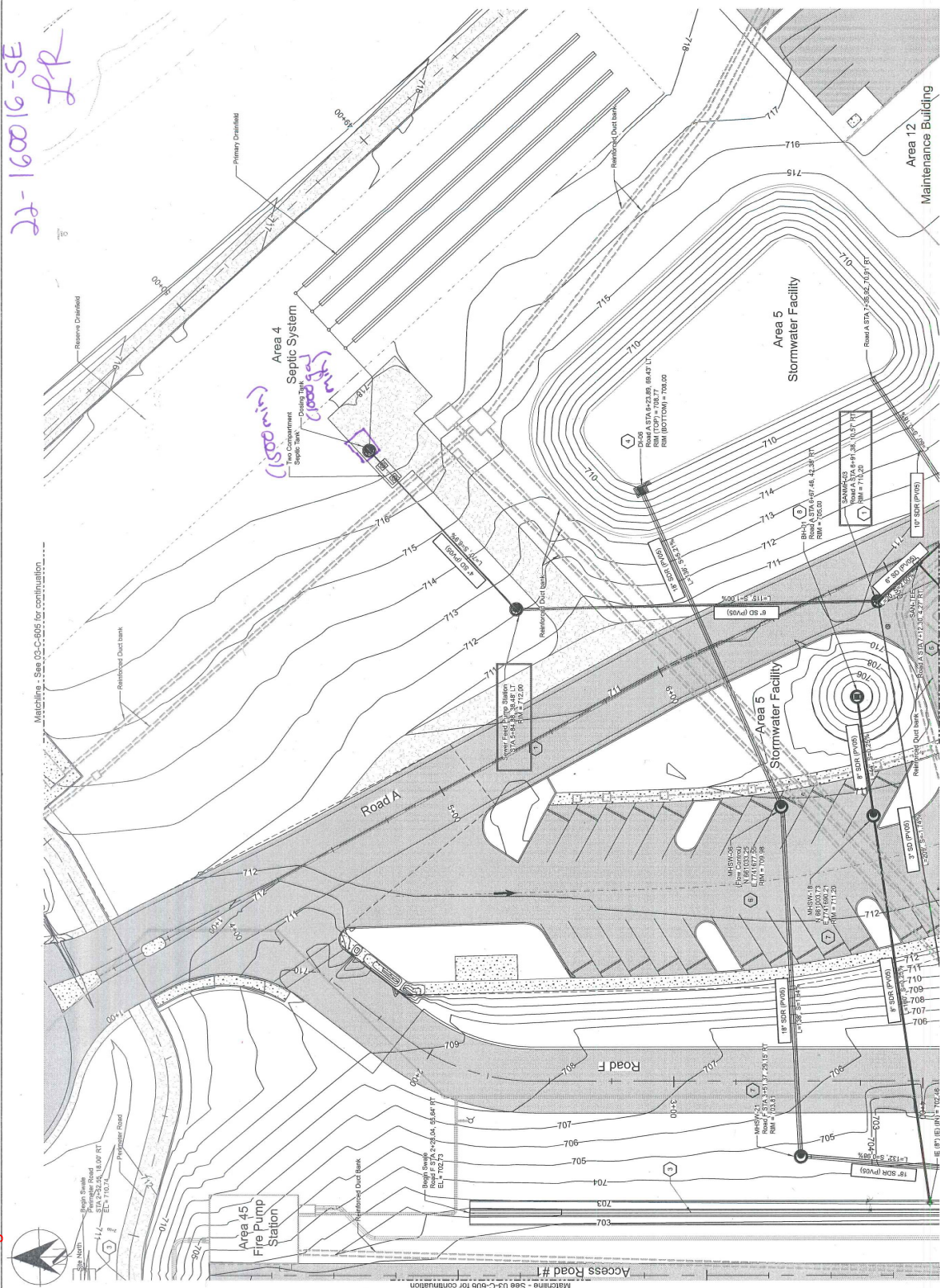
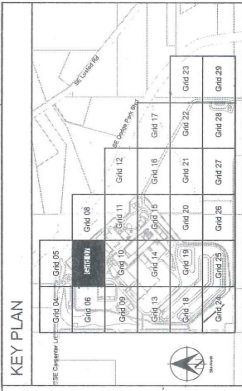
Designed By	Program Mgr
Drawn By	Client Mgr
Checked By	Client Super
Project Mgr	Date
	09/02/22



**Bull Run Filtration Facility**  
Civil  
Stormwater Management Plan  
Filtration Facility

Project No: W02229  
1st Section: 3785 / 3786  
00-LU-307  
3 of 10





- General Sheet Notes**
- Maintain 3' min cover for all piping. Concrete encase piping with less than 3' cover. Maintain 12' min clearances between piping to allow for compaction or backfill with CLSM.
  - See 05-C-300 series for process piping.
  - See 05-E-300 series for duct bank design.
  - See Sheet 05-C-802 for structure elevations.
- Sheet Keynotes**
- Standard sanitary sewer maintenance hole per detail C-183 on sheet GEN-C-822.
  - Stormwater pond per detail A/D3-C-911.
  - Stormwater swale per detail C-165 on sheet GEN-C-823.
  - Ditch inlet per detail C-173 on sheet GEN-C-824.
  - Tea per detail C-144 on sheet GEN-C-144.
  - Flow control maintenance hole per detail A/D3-C-912.
  - Standard storm sewer maintenance hole per detail C-182 on sheet GEN-C-822.
  - Beehive inlet per detail C-166 on sheet GEN-C-822.

Sewage compliance design submitted for review of connectivity and general arrangement only, and for approval of drainfield sizing and location.



**PORTLAND WATER BUREAU**  
FROM FOREST TO FAUCET

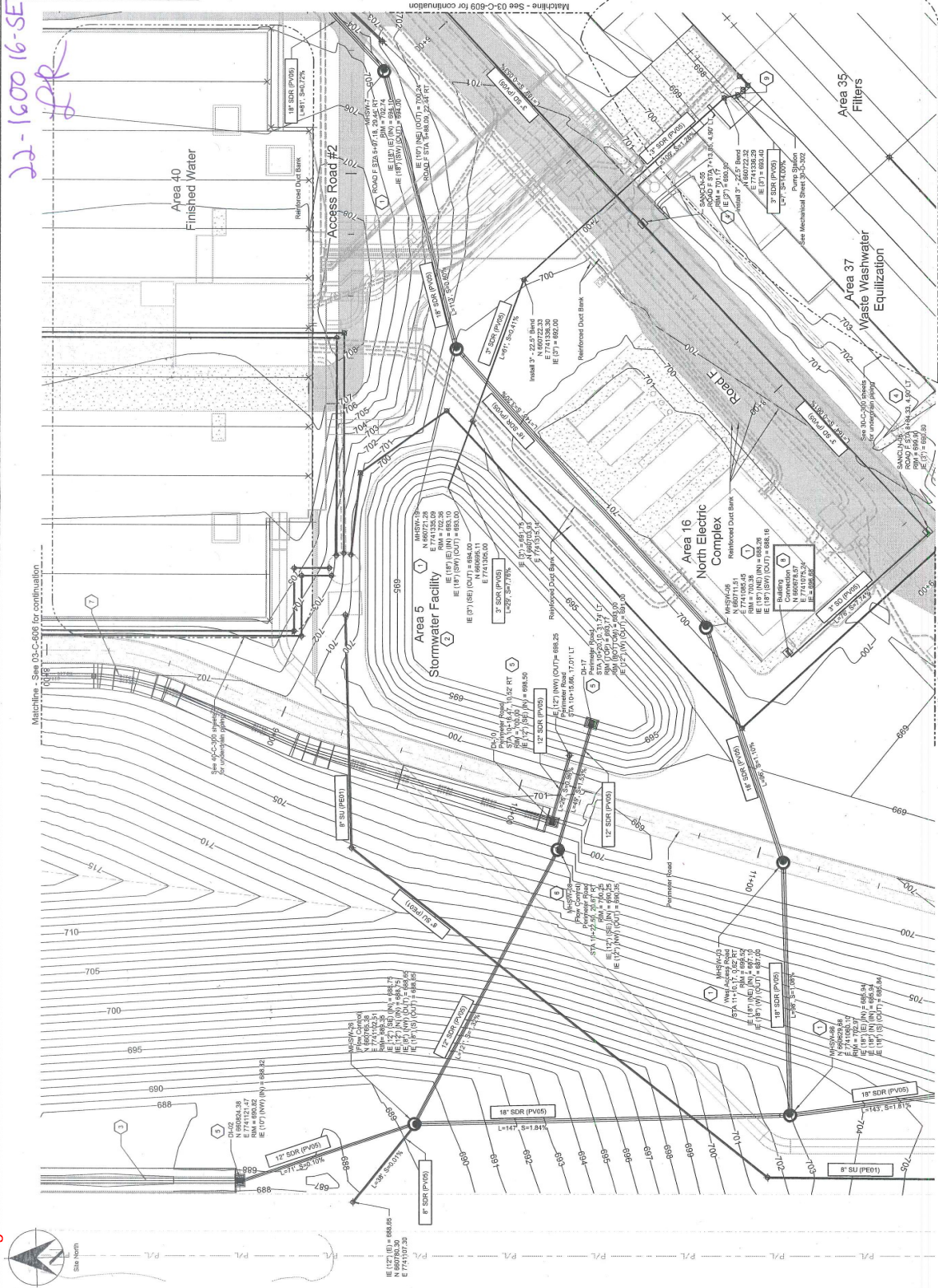
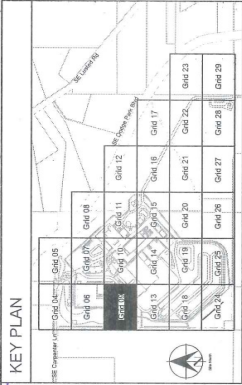
**Stantec**  
**EMERIO**  
ENGINEERING • SURVEYING • DESIGN

UNAPPROVED BY: [Signature]  
DRAWN BY: [Signature]  
CHECKED BY: [Signature]  
PROJECT NO: 09/02/22

DATE: 09/02/22

PROJECT: Bull Run Filtration Facility  
SHEET NO: 05-C-807  
GRID: 07





**General Sheet Notes**

- Maintain 3' min cover for all piping. Concrete encase piping with less than 3' cover. Minimum 12" min clearances between piping to allow for compaction of backfill with CLSH.
- See 03-C-300 series for process piping.
- See 03-E-300 series for duct bank design.
- See Sheet 03-C-802 for structure elevations.

**Sheet Keynotes**

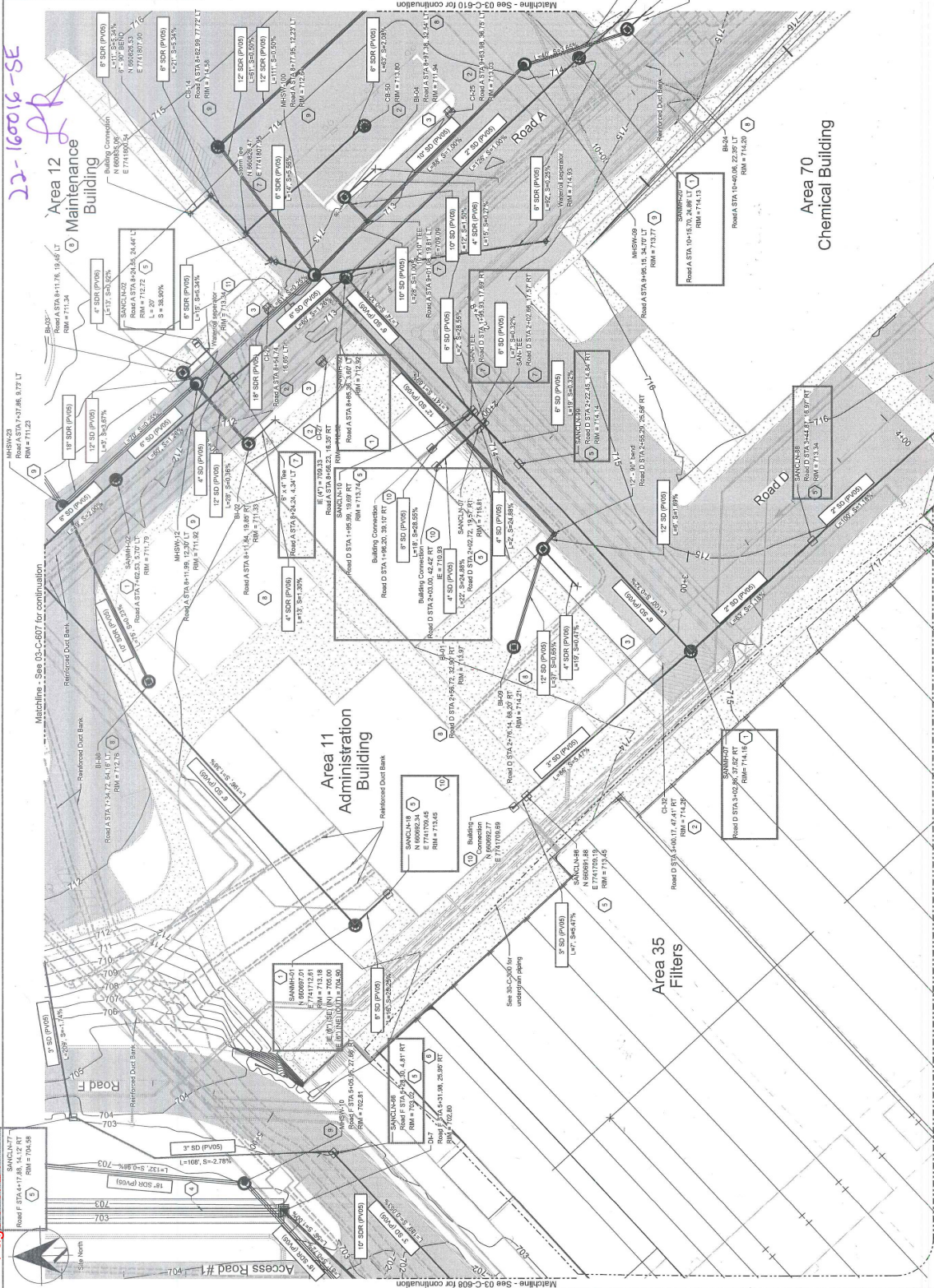
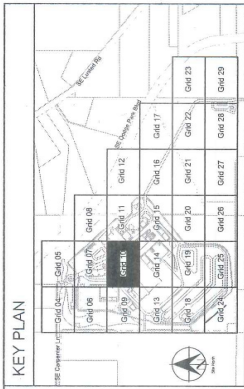
- Standard storm sewer maintenance hole per detail C-182 on sheet GEN-C-598.
- Stormwater basin per detail D103-C-911.
- Stormwater swale per detail C-168 on sheet GEN-C-823.
- Cleanout per detail C-174 on sheet GEN-C-925.
- Ditch inlet per detail C-173 on sheet GEN-C-824.
- Flow control maintenance hole per detail D103-C-912.
- Roadside ditch per detail C-169 on sheet GEN-C-923.
- Pipe to structure connections per detail C-177 on sheet GEN-C-826.
- Underdrain pump station per detail C-160 on sheet GEN-C-920.

Sewage conveyance design submitted for review. This design is preliminary and for approval of drainfield sizing and location.



Design by Drawn by Checked by Project Mgr	Program Mgr Coord. Mgr Comm. Supv Date	09/02/22	Warning If this bar does not fit on the drawing it is not to scale
		FROM FOREST TO FAUCET	
Bull Run Filtration Facility Civil Utilities Grid 09		Stantec Project No. W02229 3785 / 3786 03-C-006 XX XX	





- General Sheet Notes**
- Maintain 3' min cover for all piping. Concrete encase piping with less than 3' cover. Maintain 12' min clearance between piping to allow for compaction of manholes with C.S.N.
  - See 03-C-300 series for process piping.
  - See 03-E-300 series for duct bank design.
  - See Sheet 03-C-302 for structure elevations.
- Sheet Keynotes**
- Standard facility sewer maintenance hole per detail C-189 on sheet GEN-C-326.
  - Concrete inlet type manhole per detail C-179 on sheet GEN-C-327.
  - Stormwater planter per detail C-162 on sheet GEN-C-321.
  - Stormwater swale per detail C-168 on sheet GEN-C-323.
  - Cleanout per detail C-174 on sheet GEN-C-325.
  - Ditch inlet per detail C-173 on sheet GEN-C-324.
  - Tee per detail C-144 on sheet GEN-C-317.
  - Beehive inlet per detail C-166 on sheet GEN-C-322.
  - Standard storm sewer maintenance hole per detail C-182 on sheet GEN-C-328.
  - Pipe to structure connections per detail C-177 on sheet GEN-C-329.
  - Oil/water separator.

Sewage conveyance design submitted for review of connecting and general arrangement only, and for approval of draft field sizing and location.



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Project No. 09/02/22  
 Date 09/02/22

Designed By: [Name]  
 Drawn By: [Name]  
 Checked By: [Name]  
 Project Mgr: [Name]

Warning: If this bar does not measure 1" = 40' it is not to scale.

Program Mgr: [Name]  
 Cost Mgr: [Name]  
 Cost Supt: [Name]  
 Date: 09/02/22

Portland Water Bureau  
 FROM FOREST TO FAUCET

Portland, Oregon  
 Civil  
 Utilities  
 Grid 10

Scale: 1" = 40'

Sheet No. 03-C-809  
 Lot No. 3765 / 3786  
 SAMP Project No. W02229

Stantec  
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 ENGINEERING • SURVEYING • DESIGN

Project No. 09/02/22  
 Date 09/02/22

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 Checked By: [Name]  
 Project Mgr: [Name]

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 Cost Mgr: [Name]  
 Cost Supt: [Name]  
 Date: 09/02/22

Portland Water Bureau  
 FROM FOREST TO FAUCET

Portland, Oregon  
 Civil  
 Utilities  
 Grid 10

Scale: 1" = 40'

Sheet No. 03-C-809  
 Lot No. 3765 / 3786  
 SAMP Project No. W02229

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Project No. 09/02/22  
 Date 09/02/22

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 Project Mgr: [Name]

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 Cost Mgr: [Name]  
 Cost Supt: [Name]  
 Date: 09/02/22

Portland Water Bureau  
 FROM FOREST TO FAUCET

Portland, Oregon  
 Civil  
 Utilities  
 Grid 10

Scale: 1" = 40'

Sheet No. 03-C-809  
 Lot No. 3765 / 3786  
 SAMP Project No. W02229

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 ENGINEERING • SURVEYING • DESIGN

Project No. 09/02/22  
 Date 09/02/22

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 Project Mgr: [Name]

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 Cost Supt: [Name]  
 Date: 09/02/22

Portland Water Bureau  
 FROM FOREST TO FAUCET

Portland, Oregon  
 Civil  
 Utilities  
 Grid 10

Scale: 1" = 40'

Sheet No. 03-C-809  
 Lot No. 3765 / 3786  
 SAMP Project No. W02229

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 ENGINEERING • SURVEYING • DESIGN

Project No. 09/02/22  
 Date 09/02/22

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 Project Mgr: [Name]

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 Cost Supt: [Name]  
 Date: 09/02/22

Portland Water Bureau  
 FROM FOREST TO FAUCET

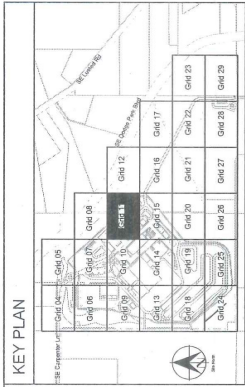
Portland, Oregon  
 Civil  
 Utilities  
 Grid 10

Scale: 1" = 40'

Sheet No. 03-C-809  
 Lot No. 3765 / 3786  
 SAMP Project No. W02229



22-160016-SE  
 LR



**General Sheet Notes**

1. Maintain 3' min cover for all piping. Concrete encase piping with less than 3' cover. Maintain 12" min clearance between piping to allow for compaction or install with CLSM.
  2. See DS-C-300 for process piping.
  3. See DS-E-300 sheets for ductbank design.
  4. See Sheet DS-C-302 for structure elevations.
- Sheet Keynotes**
1. Standard sanitary sewer maintenance hole per detail C-168 on sheet GEN-C-332.
  2. Concrete inlet type metal per detail C-165 on sheet GEN-C-322.
  3. Stormwater planter per detail C-162 on sheet GEN-C-320.
  4. Cleanout per detail C-174 on sheet GEN-C-325.
  5. Catch basin per detail.
  6. Pipe to structure connections per detail C-177 on sheet GEN-C-326.

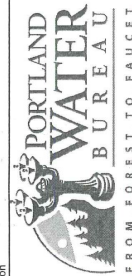
Sewage conveyance design submitted for review of connectivity and general arrangement only, and for approval of granted staging and location.



SAP Project No	W02229
1st Section	3765 / 3766
Sheet No	03-C-610
	XX XX



**Bull Run Filtration Facility**  
 Civil  
 Utilities  
 Grid 11

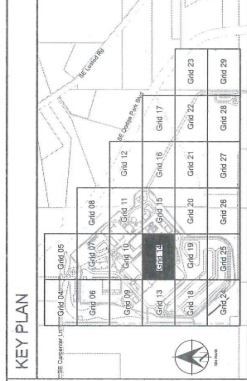
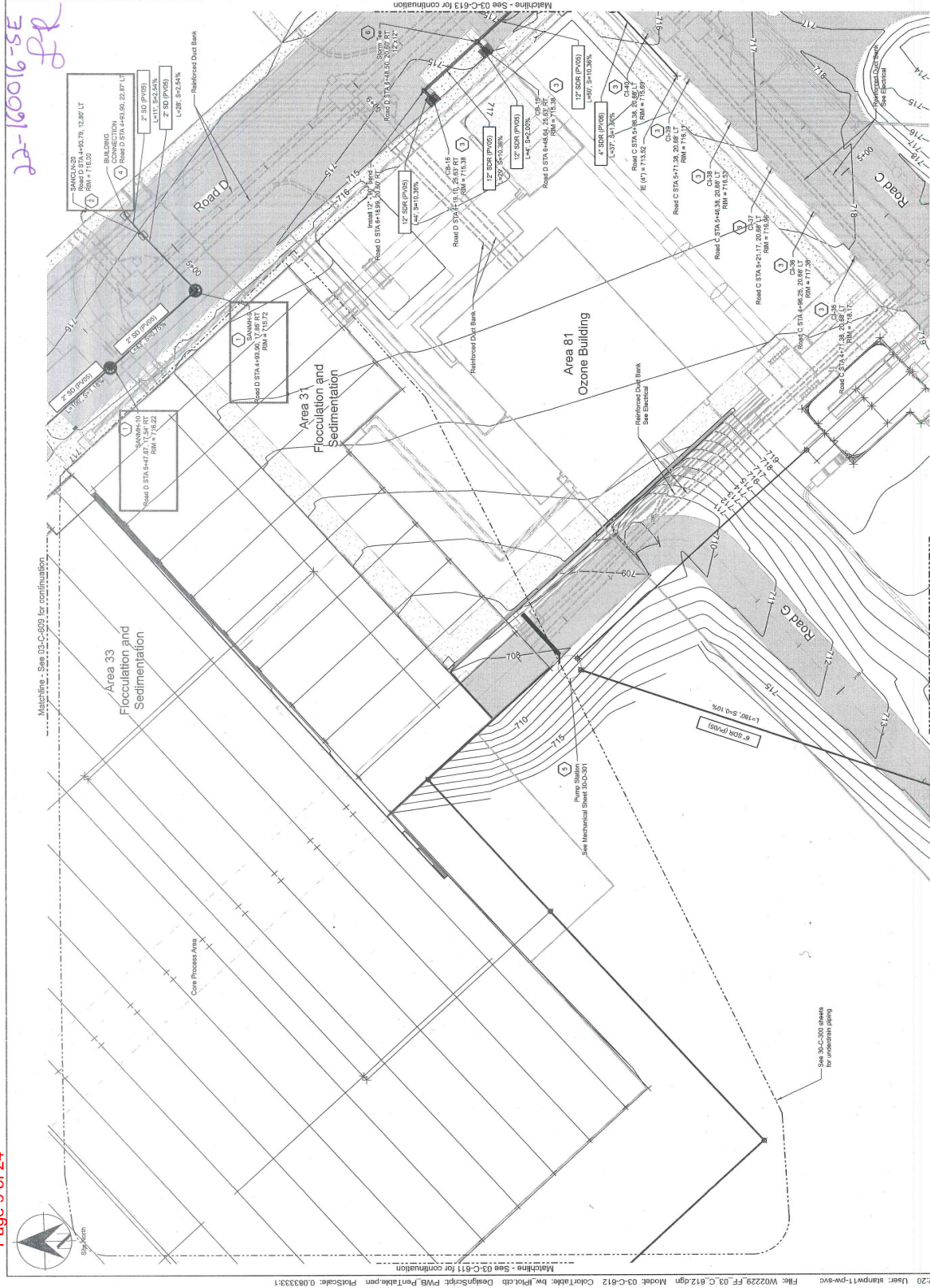


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Design Mgr	09/02/22	09/02/22	09/02/22
Drawn By	09/02/22	09/02/22	09/02/22
Checked By	09/02/22	09/02/22	09/02/22
Project Mgr	09/02/22	09/02/22	09/02/22



Revision	
01	Issue
02	Initial Design - 50% Schematic
03	Second Intermediate Design - 80% Schematic
04	Final Design - 90% Schematic
05	Final Design - 95% Schematic
06	Final Design - 100% Schematic





**General Sheet Notes**

1. Maintain 3' min cover for all piping. Concrete encase piping with less than 3' cover. Maintain 12" min clearance between piping to allow for compaction of backfill with CLSN.
  2. See 03-C-300 series for process piping.
  3. See 03-E-300 series for ductbank design.
  4. See Sheet 03-C-802 for structure elevations.
- Sheet Keynotes**
1. Standard sanitary sewer maintenance hole per detail C-182 on sheet GEN-C-928.
  2. Cleanout per detail C-174 on sheet GEN-C-925.
  3. Concrete inlet type metal per detail C-165 on sheet GEN-C-922.
  4. Pipe to structure connections per detail C-177 on sheet GEN-C-928.
  5. Underdrain pump station per detail C-160 on sheet GEN-C-920.
  6. Tee per detail C-144 on sheet GEN-C-917.

Sewage conveyance design submitted for review of connectivity and general arrangement only, and for approval of drainfield sizing and location.



SHEET No	W02229
USE SECTION	3785 / 3786
SHEET No	03-C-612
DATE	XX XX



**PORTLAND WATER BUREAU**  
FROM FOREST TO FAUCET

**Stantec**  
**EMERIO**  
ENGINEERING - SURVEYING - DESIGN

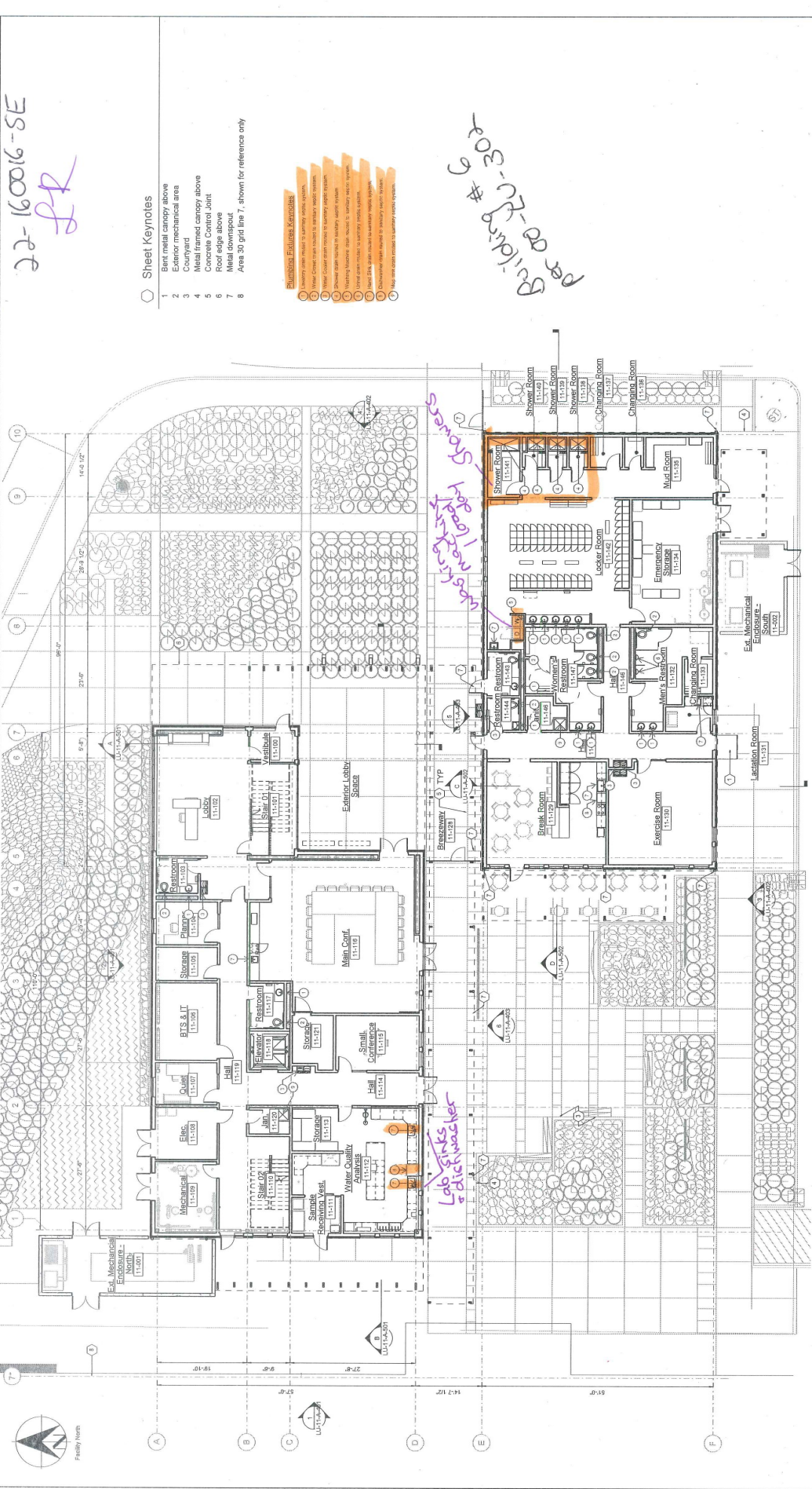
Client By	Program Mgr
Drawn By	Client Mgr
Checked By	Client Supt
Project Mgr	09/02/22

Warranty	1
Column	0
Row	0
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Revised	

Client	Bull Run Filtration Facility
Discipline	Civil
Location	Utilities
Sheet	Grid 14





1 Overall - First Floor Plan  
 SCALE: 1/4" = 1'-0"

- Sheet Keynotes**
- 1 Best metal canopy above
  - 2 Exterior mechanical area
  - 3 Courtyard
  - 4 Metal framed canopy above
  - 5 Concrete Control Joint
  - 6 Roof edge above
  - 7 Metal downspout
  - 8 Area 30 grid line 7, shown for reference only
- Piping - Exposed Keynotes**
- 1 Sewer main (shown in sanitary symbol system)
  - 2 Storm sewer (shown in sanitary symbol system)
  - 3 Water supply main (shown in sanitary symbol system)
  - 4 Cooling water main (shown in sanitary symbol system)
  - 5 Hot water main (shown in sanitary symbol system)
  - 6 Cold water main (shown in sanitary symbol system)
  - 7 Chilled water main (shown in sanitary symbol system)
  - 8 Hot water main (shown in sanitary symbol system)

LAND USE

Overall First Floor Plan

DATE: 11/14/17  
 PROJECT: W02229  
 SHEET: 3765 / 3766  
 SHEET NO: LU-11-A-302

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**PORTLAND WATER BUREAU**

FROM FOREST TO FAUCET

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NO.	DATE	DESCRIPTION	REVISION

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Designed By	Program Mgr	Warning	Date
Drawn By	Coord Mgr	0 1 2 If this bar does not measure 1" then the scale is not to scale	
Checked By	Coord Supt		
Project Mgr			

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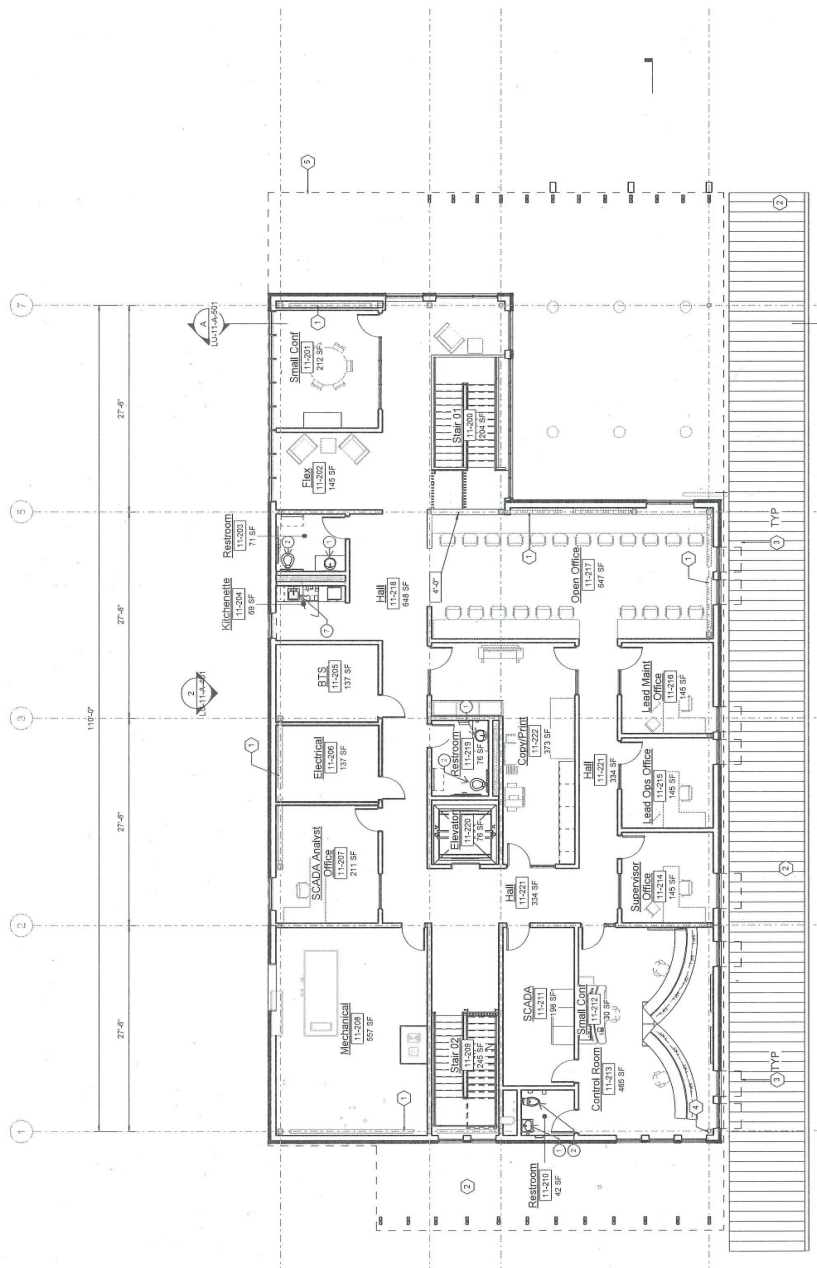
Sheet Keynotes

- 1 Brace frame - see structural drawings
- 2 Metal framed canopy below
- 3 Fixed aluminum storefront sunshade above
- 4 Steel post - see structural drawings
- 5 Roof edge above

Punching Through Keynotes

1. Structural members to secondary structure system
2. Metal framed canopy below
3. Fixed aluminum storefront sunshade above
4. Steel post - see structural drawings
5. Roof edge above
6. Primary structure to secondary structure system
7. Secondary structure to primary structure system
8. Structural members to secondary structure system
9. Structural members to primary structure system
10. Structural members to secondary structure system
11. Structural members to primary structure system
12. Structural members to secondary structure system
13. Structural members to primary structure system
14. Structural members to secondary structure system
15. Structural members to primary structure system
16. Structural members to secondary structure system
17. Structural members to primary structure system
18. Structural members to secondary structure system
19. Structural members to primary structure system
20. Structural members to secondary structure system

All Plumbing fixtures  
 this floor office visit  
 case



Second Floor - Offices/Lab  
 SCALE: 1/8" = 1'-0"

				Bull Run Filtration Facility Architectural Administration Building Second Floor Plan - Offices/Lab
Program: Offices/Lab Design: 11-14-10 Scale: 1/8" = 1'-0"		Warming If this bar does not measure, 1" = 1'-0" shall prevail.		
Designed By: [Blank] Drawn By: [Blank] Checked By: [Blank] Project No: [Blank]	Program Mgr: [Blank] Concept Mgr: [Blank] Check: [Blank] Date: [Blank]	Bull Run Filtration Facility W02229 3765 / 3766 LU-11-A-305		
Survey: XXXX Revision: [Blank] Description: [Blank] App'd: [Blank]		David W. Patten, Engineering Manager, PE No. 19881 Date: [Blank]		





### General Sheet Notes

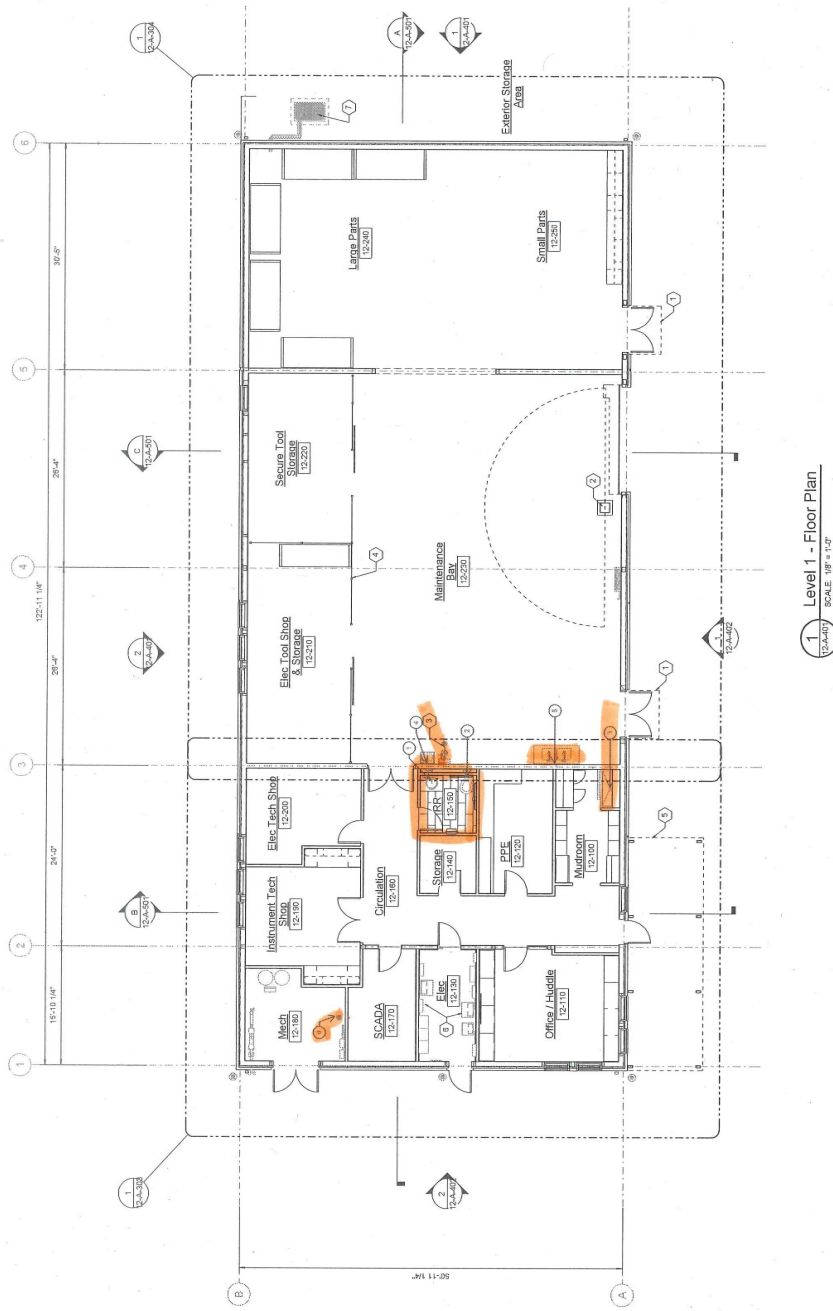
- Dimensions are to the face of stud or concrete as shown (UNO). Vary all dimensions in the field before the start of work. Alert the Superintendent if dimensions vary from those shown.
- See specification Section 090000 for interior room finish schedule. Exposed structural elements are intended to be painted (UNO). See enlarged floor plans (as applicable) for dimensions, wall assembly types and interior elevations for interior window types.
- Fire blocking will be provided per Oregon Structural Specialty Code, Section 718.

### Sheet Keynotes

- Bent metal canopy
- Jib Crane
- Emergency Eyewash Shower
- Charlisk Fence and Gate
- Meat Freezer/Canopy
- Electric Equipment
- HVAC Equipment

- Staircase Features Markers**
1. Landing (Floor finish to be installed on this level)
  2. Stair Flight (Floor finish to be installed on this level)
  3. Staircase Structure (Floor finish to be installed on this level)
  4. Staircase Handrail (Floor finish to be installed on this level)
  5. Staircase Door (Floor finish to be installed on this level)
  6. Staircase Wall (Floor finish to be installed on this level)
  7. Staircase Ceiling (Floor finish to be installed on this level)

*Building # 7-U-302*  
*Per [Signature]*



1 Level 1 - Floor Plan  
 SCALE: 1/8" = 1'-0"

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mwb architects

Portland Water Bureau  
 FROM FOREST TO FAUCET

Program Mgr	Date Mgr	Design Mgr	Date	Project Mgr	Date

Wiring

If this bar does not measure 1/8" to 3/16" in height, it is not to scale.

No.	Date	Description	App'd

City of Portland, Oregon

Bull Run Filtration Facility  
 Architectural  
 Maintenance Building  
 First Floor Plan - Maintenance Building

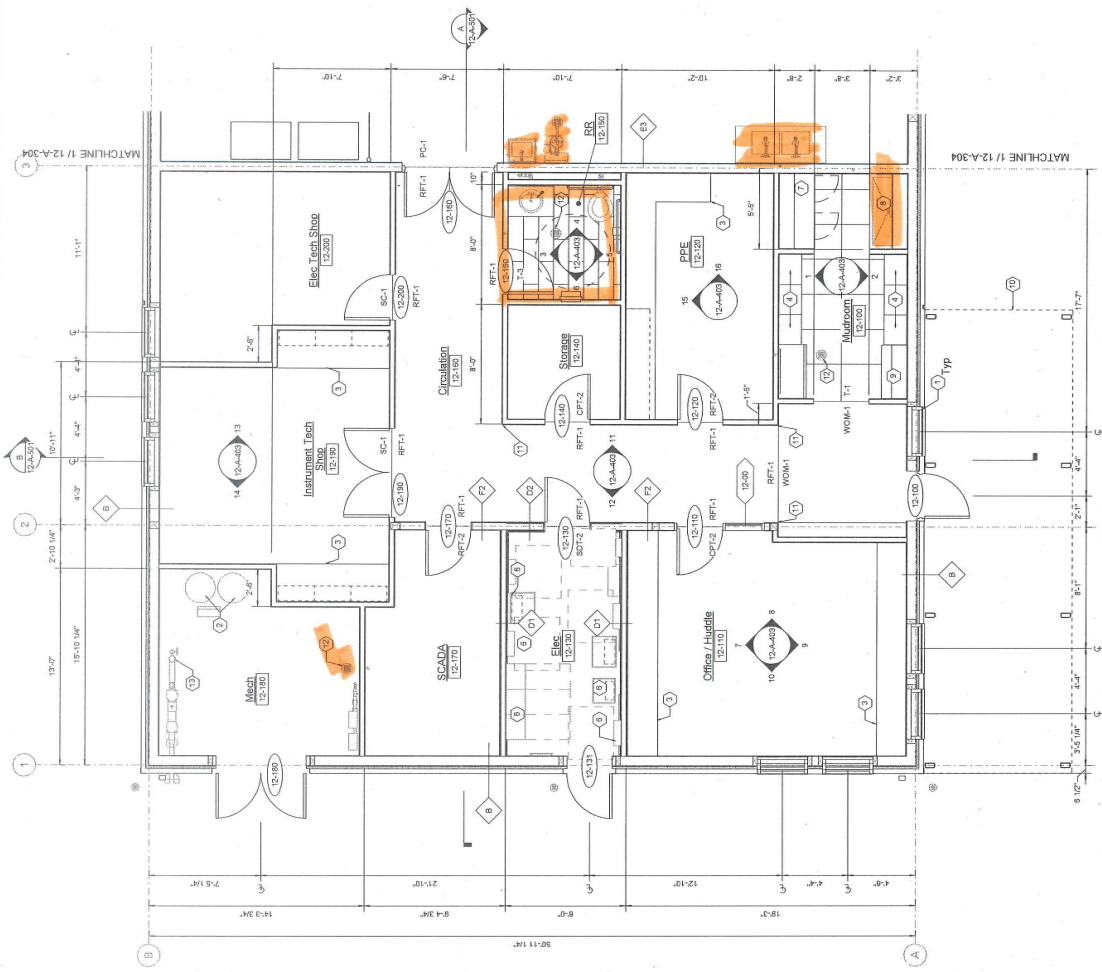
Sheet No. 12-A-302 of



22-160016-SE

- General Sheet Notes**
1. Typical interior wall type FT (UNO). Dimensions are to face of stud, concrete, CMU, and centerline of walls, columns, doors and windows (UNO). All openings are centered on wall or 5" from edge of framed wall (UNO).
  2. See code plans for locations of fire rated wall assemblies. See sheet A-104 for wall types.
  3. See A-107 for interior finish schedule.
  4. All exterior opening dimensions are rough openings. See sheet A-105 for door and window schedule and types.
  5. See A-108 for mechanical and plumbing elements shown for reference only.

- Sheet Keynotes**
- 1 Aluminum storefront system, see elevations
  - 2 Water heaters
  - 3 Casework
  - 4 Lockers
  - 5 Electrical equipment
  - 6 Counter top and shelves over dishwasher
  - 7 Mop sink
  - 8 Built-in-bench
  - 9 Metal framed canopy
  - 10 Corner guard
  - 11 Floor drain, see plumbing
  - 12 Fire riser
  - 13



1 Enlarged Plan - West  
SCALE: 1/4" = 1'-0"



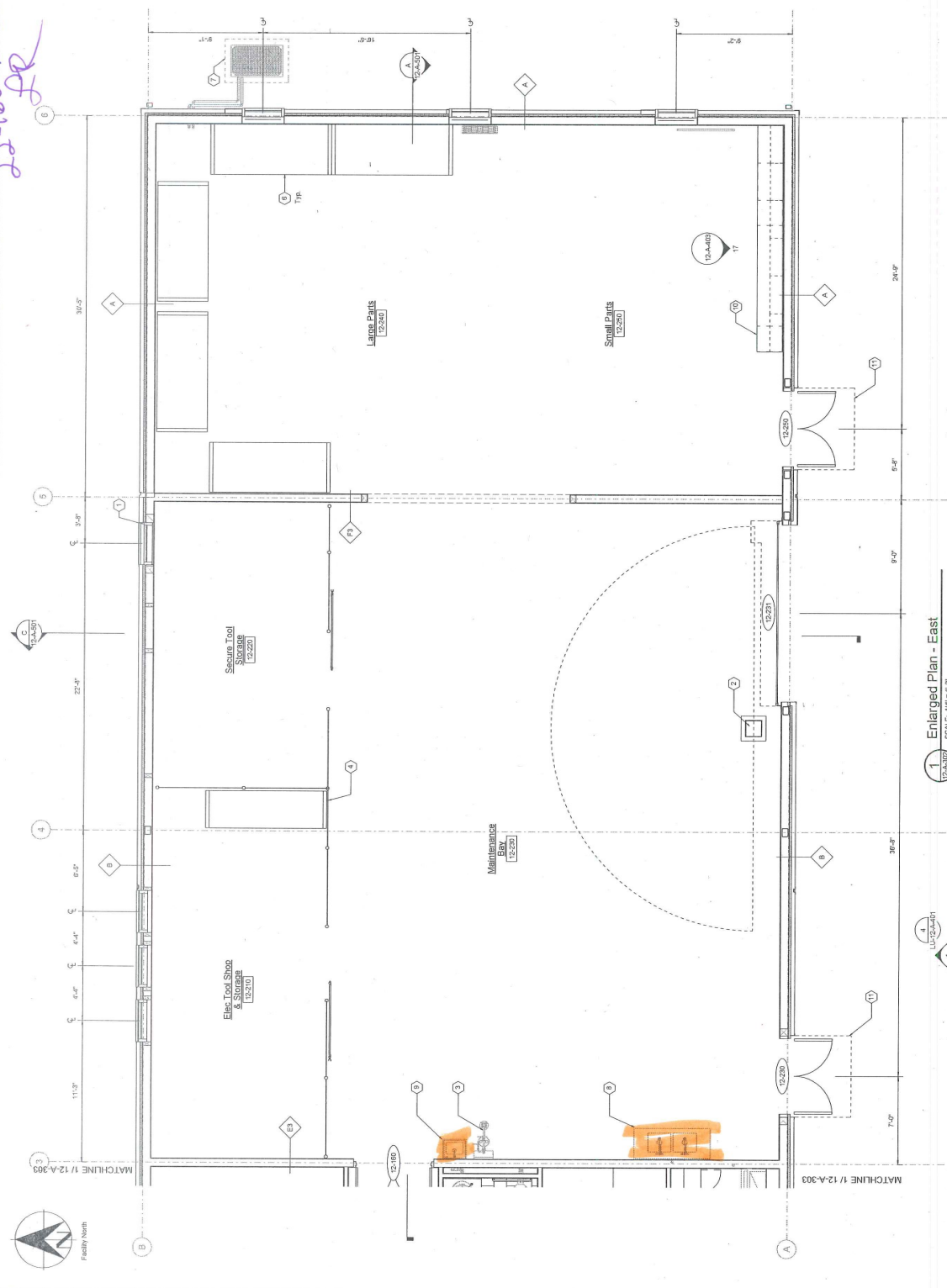
<p><b>Stantec</b> Copyright Reserved STANTONWORK ARCHITECTURE mua architects</p>		<p><b>Portland Water Bureau</b> FROM FOREST TO FAUCET</p>		<p><b>Bull Run Filtration Facility</b> Architectural Maintenance Building Enlarged Plan - Maintenance Building - West</p>	
<p>Designed By: [Blank] Drawn By: [Blank] Checked By: [Blank] Project No: [Blank]</p>		<p>Program Mgr: [Blank] Coord Mgr: [Blank] Coord Supv: [Blank] Date: [Blank]</p>		<p>Scale: 1/4" = 1'-0" Drawing No: 22-160016-SE-13 Revision: XXXX</p>	
<p>7/8/2022 2:15:24 PM BMA 300/Bull Run Filtration Facility/W02229 FF_12_A.M</p>		<p>Don't V. Patel, Principal Engineer, PE No. 1883</p>		<p>DATE: [Blank]</p>	



22-60016-SE  
DR

- General Sheet Notes**
1. Dimensions are to face of stud, concrete, CHU, and cantilever of walls, columns, doors and windows, unless noted.
  2. Door rough openings are centered on wall or 5" from edge of framed wall, unless noted.
  3. See code plans for locations of fire rated wall assemblies. See sheet A-104 for wall types.
  4. Fire-stop penetrations at all rated wall assemblies.
  5. All exterior opening dimensions are rough openings. See sheet A-105 & A-106 for door and window schedule and types.
  6. See equipment plan for more information.
  7. See electrical, mechanical, and plumbing elements shown for reference only.

- Sheet Keynotes**
1. Aluminum storefront system - see elevations
  2. Jib crane
  3. Emergency eyewash shower
  4. Chainlink fence and sliding gate
  5. Pallet rack
  6. HVAC equipment
  7. Stainless steel sink - see plumbing
  8. Stainless steel hand sink - see plumbing
  9. Casework
  10. Ben/metal canopy
  - 11.



**Enlarged Plan - East**  
SCALE: 1/8" = 1'-0"

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S.T. CROWNE & ASSOCIATES  
ARCHITECTS  
mwa architects

Designed By	Program Mgr
Drawn By	Coord. Mgr
Checked By	Coord. Spvr
Project Mgr	Date

**PORTLAND WATER BUREAU**  
FROM FOREST TO FAUCET

**City of Portland, Oregon**

**Bull Run Filtration Facility**  
Architectural  
Maintenance Building  
Enlarged Plan - Maintenance Building - East

W02229  
3/755 / 3/766  
12-A-304

No.	Date	Description	Author





22-160016-SE

Rev 2  
PR

General Sheet Notes

1. Dimensions are to the face of stud or concrete as shown (UNO).
2. All work is to be done in accordance with the current edition of the International Building Code, unless otherwise noted. Alert the Architect to any discrepancies before proceeding.
3. See specification Section 090000 for interior room finish schedule.
4. Exposed structural elements are intended to be painted (UNO).
5. All exterior doors and windows are to be provided with exterior assembly types, and door types. See exterior elevations for exterior window types and interior elevations for interior window types.
6. Fire blocking will be provided per Oregon Structural Specialty Code.
7. See structural for concrete wall thicknesses.
8. Electrical, mechanical, and plumbing elements shown for reference only. See electrical, mechanical, and plumbing sheets for more information.
9. Process equipment shown in screened linework for reference only. See elevations for more openings and metal panel information.

Sheet Keynotes

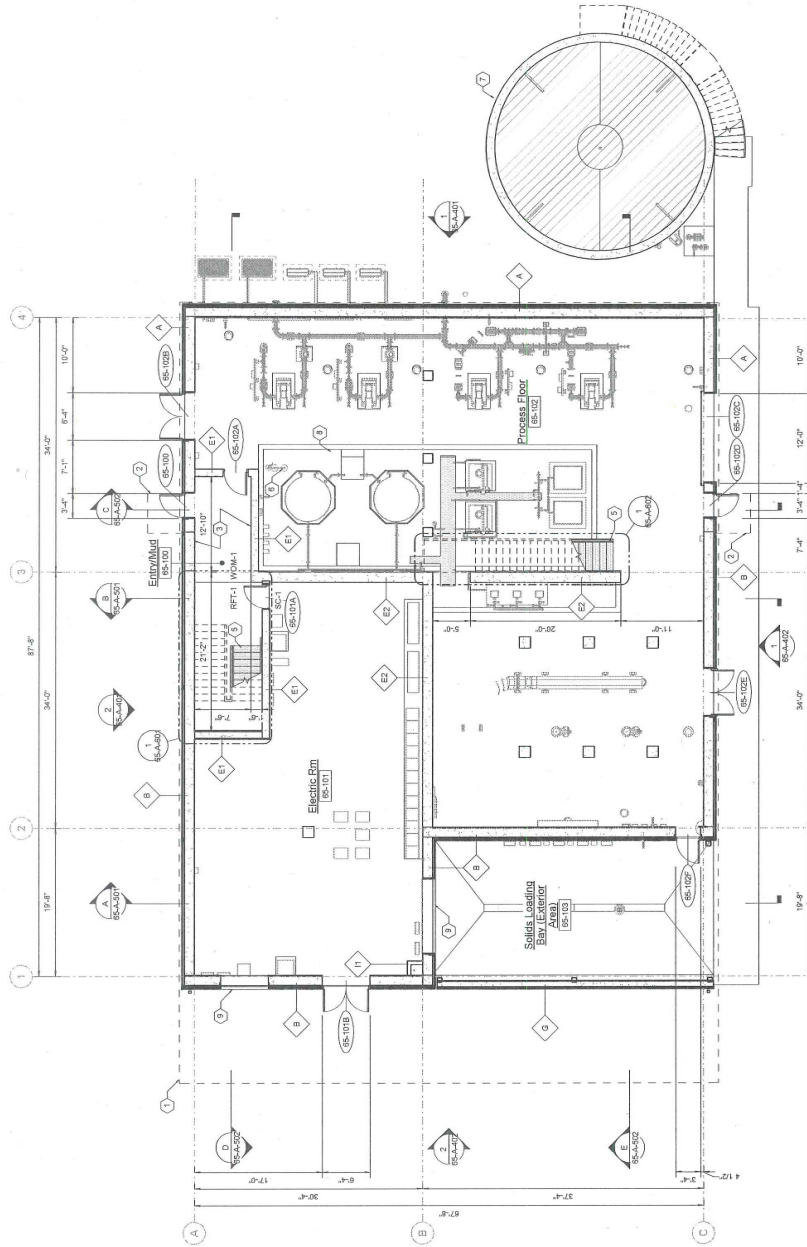
- 1 Line of roof above
- 2 Canopy above
- 3 Process mechanical equipment
- 4 Weld grate stair railing
- 5 Weld grate
- 6 Sludge tank see structural
- 7 Containment curb, see structural
- 8 Metal louver

Legend

Unoccupied Area



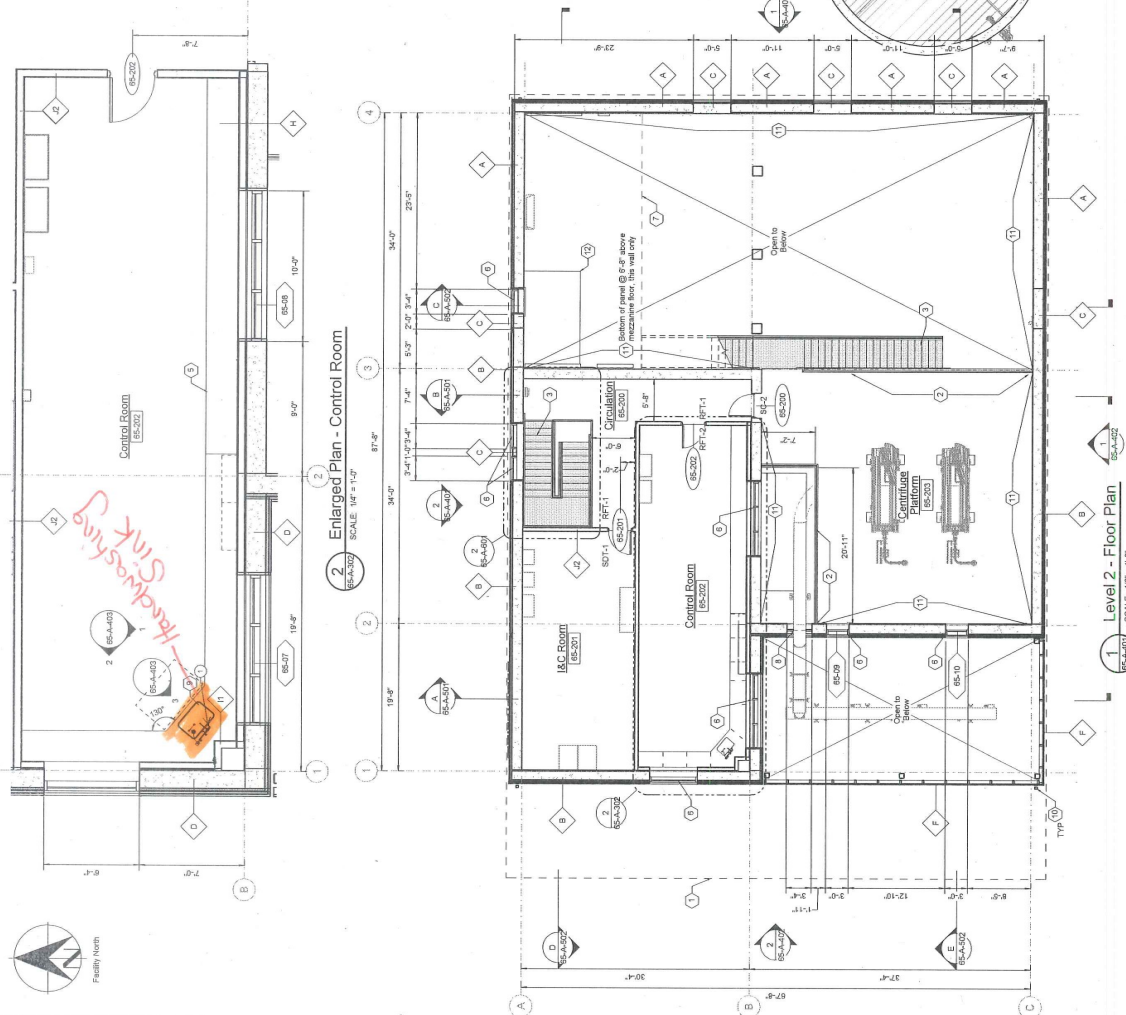
No painting/semi disposal  
Level 1 per  
20-LU-302  
Building # 11 per



1 Level 1 Floor Plan  
SCALE: 1/8" = 1'-0"

		Stantec Copyright Reserved ATTANMARK ARCHITECTURE mwb architects		Copyright Reserved ATTANMARK ARCHITECTURE mwb architects	
SAIF Project No. <b>W02229</b>		Bull Run Filtration Facility Architectural Mechanical Dewatering Level 1 Floor Plan		Design By: [Blank] Drawn By: [Blank] Checked By: [Blank] Project Mgr: [Blank]	
1st Session 3/7/15 / 3/7/16		FROM FOREST TO FAUCET 		Program Mgr: [Blank] Client Mgr: [Blank] Control Supt: [Blank] Date: [Blank]	
Sheet No. 65-A-301		PORTLAND WATER BUREAU		Warning If this bar does not measure 1" on the drawing, it is not to scale.	
Date: [Blank]		FROM FOREST TO FAUCET		Designer: [Blank] Checker: [Blank]	
7/02/2022 2:45:51 PM		BIA 390/Bull Run Filtration Facility/W02229 FF 65 A.M		Revision 330X	





General Sheet Notes

1. Dimensions are to the face of stud or concrete as shown (UNO).
2. Verify all dimensions in the field before the start of work. Alert the architect immediately if you find a discrepancy.
3. See Specification Section 090000 for interior room finish schedule. Exposed structural elements are intended to be painted (UNO).
4. All doors are to be swing out. See exterior elevations for exterior window types and door types. See exterior elevations for exterior window types and interior elevations for interior window types.
5. Fire blocking will be provided per Oregon Structural Specialty Code. See structural for concrete wall thicknesses.
6. See structural for concrete wall thicknesses.
7. Electrical, mechanical, and plumbing elements shown for reference only. See electrical, mechanical, and plumbing sheets for more information.
8. Process equipment shown in screened linework for reference only.
9. See elevations for more openings and metal panel information.

Sheet Keynotes

- 1 Line of roof above
- 2 Removable guardrail area, in 8'-0" sections
- 3 Metal grate stair / railing
- 4 Sludge tank, see structural
- 5 Casework
- 6 Aluminum storefront system
- 7 HVAC platform above
- 8 Downspout
- 9 Metal downspout
- 10 Sound-absorbing panels (AWP-4), 75% coverage of wall surface
- 11 Concrete ceiling below, see structural
- 12

Legend

Unoccupied Area

**EXISTING FEATURES KEYNOTES**  
 (Orange circle) Mark this room to identify existing features.

22-160016-SE  
 Rev 2  
 [Signature]



<p>PORTLAND WATER BUREAU          FROM FOREST TO FAUCET</p>		<p>Bull Run Filtration Facility          Architectural          Mechanical Dewatering          Level 2 Floor Plan</p>	
<p>Stantec          ARCHITECTURE          Copyright Reserved          No part of this document may be reproduced without the written permission of Stantec Architecture.</p>		<p>City of Portland          815</p>	
<p>SAF Project No: W02229          US Section: 3765 / 3766          Sheet No: 65-A-302</p>		<p>DAVID W. PEARS, Principal Engineer, P.E. No 18853          Date: _____</p>	
<p>Designed By: [Blank]          Drawn By: [Blank]          Checked By: [Blank]          Project Mgr: [Blank]</p>		<p>Warning: If this bar does not measure 1" in length, the drawing is not to scale.</p>	
<p>Revision: [Blank]          Description: [Blank]          Date: [Blank]</p>		<p>Scale: 1/8" = 1'-0"</p>	



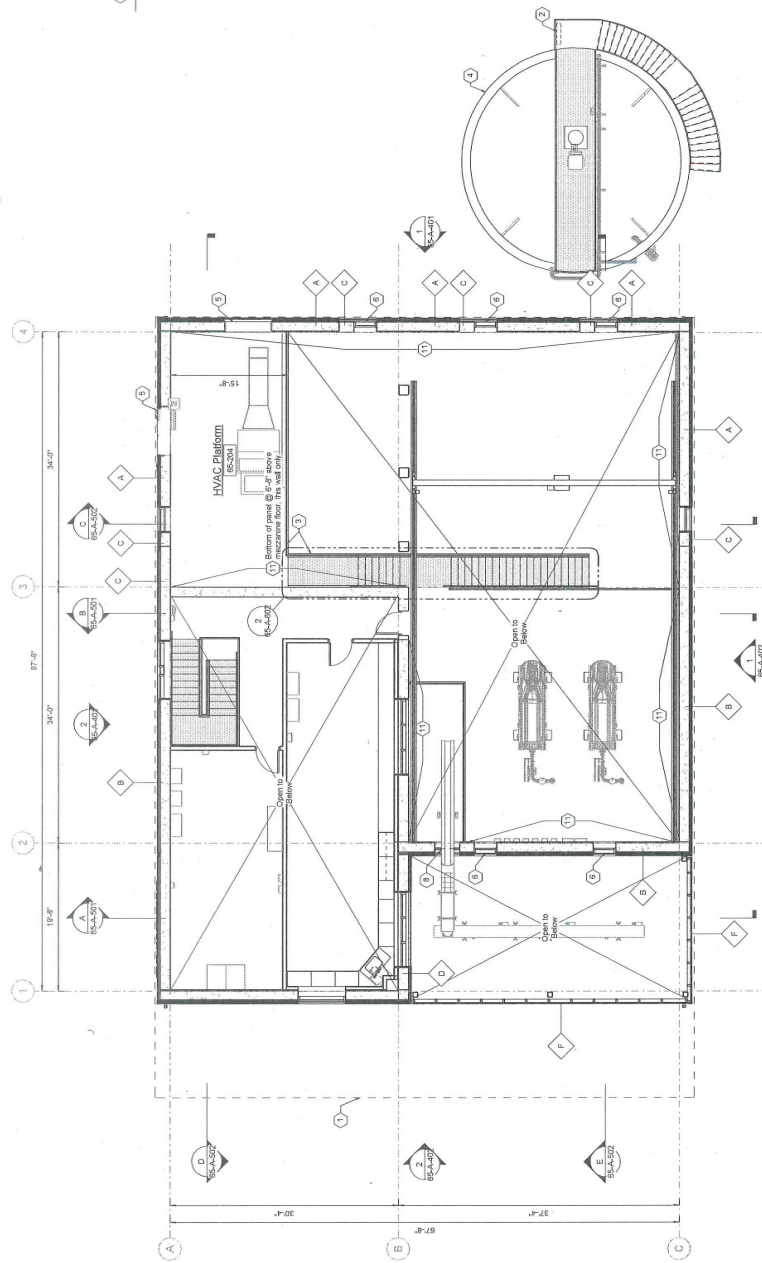
General Sheet Notes

1. Dimensions are to the face of stud or concrete as shown (UNO). Verify all dimensions in the field before the start of work. Alert the architect if there are any discrepancies.
2. See specification Section 090000 for interior room finish schedule. Exposed structural elements are intended to be painted (UNO).
3. See untagged floor plans (as applicable) for dimensions, wall thicknesses, and interior elevations for interior window types.
4. Fire blocking will be provided per Oregon Structural Specialty Code.
5. See structural for concrete wall thicknesses.
6. Electrical, mechanical, and plumbing elements shown for reference only. See electrical, mechanical, and plumbing sheets for more information.
7. Process equipment shown in screened linework for reference only. See elevations for more openings and metal panel information.

Sheet Keynotes

- 1 Line of roof above
- 2 Metal pipe/vent
- 3 Metal pipe/railing
- 4 Sludge tank, see structural
- 5 Metal lower
- 6 Aluminum storefront system
- 7 Sound-absorbing panels (AMP-A), 75% coverage of wall surface

22-160016-SE  
REV 2  
JR



1 HVAC Mezzanine  
SCALE: 1/8" = 1'-0"

No Plumbing/Sanitary  
Level 3

SAP Project No: W02229  
US Section: 3765 / 3766  
Sheet No: 65-A-003

Bull Run Filtration Facility  
Architectural  
Mechanical Dewatering  
Level 3 Floor Plan



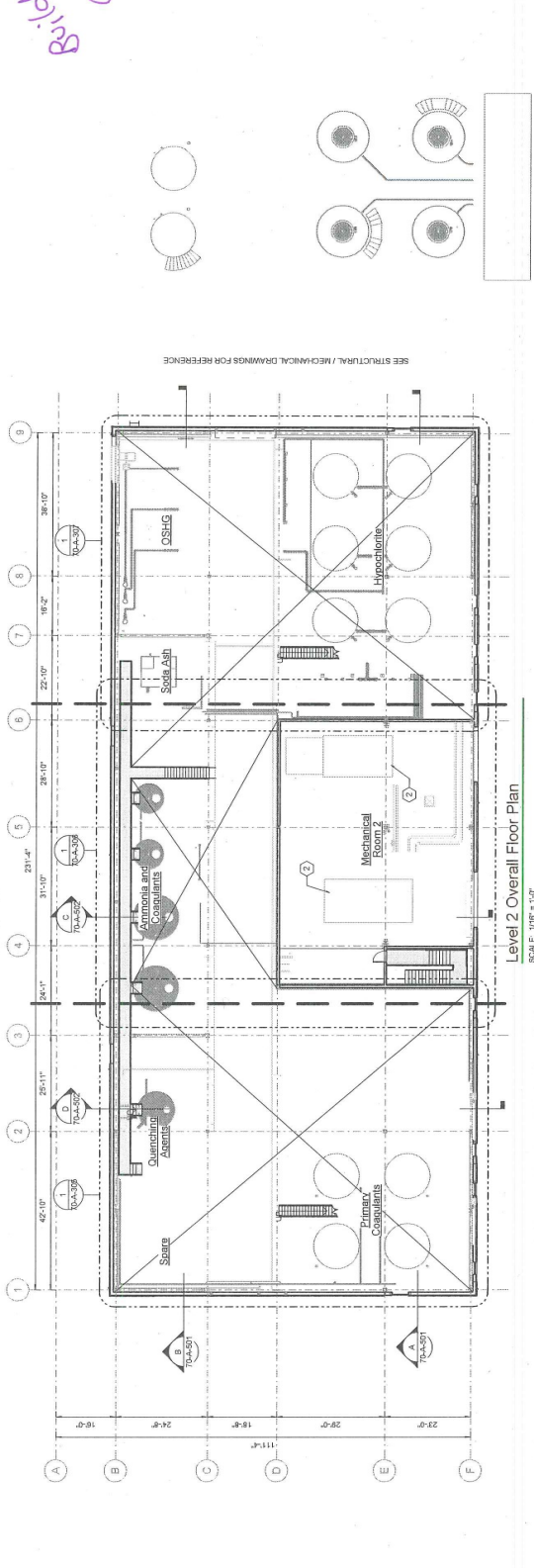
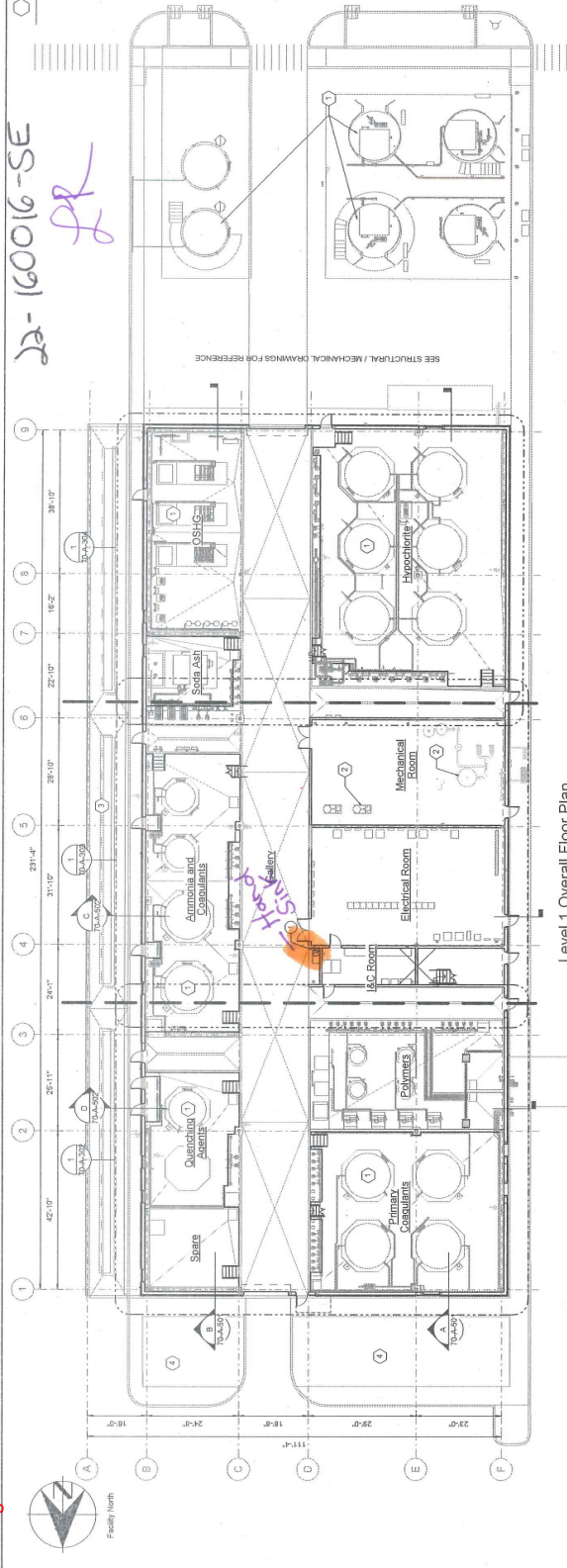
Warning  
If the bar above  
does not measure 1"  
then the scale is  
not to scale

Prepared By	Checked By	Project No.	Date
MA	SP	160016	

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mva architects

No.	Date	Revision	Appr.





- Sheet Keynotes
- 1 Process mechanical equipment, see process mechanical
  - 2 HVAC equipment, see building mechanical drawings
  - 3 Chemical delivery containment area
  - 4 Landscaped area

PUMPING EQUIPMENT KEYNOTES  
 (See keynotes for location of pumps and piping)

Building # 12 per  
 00-LC-301-17-00

				Bull Run Filtration Facility Architectural Chemical Building Overall Floor Plans	
Copyright © 2022 Stantec All rights reserved. No part of this document may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without the prior written permission of Stantec.		FROM FOREST TO FAUCET 		Date: _____ Drawn By: _____ Checked By: _____ Project Mgr: _____	
Project No: W02229 1st Section: 3765 / 3766 Sheet No: 70-A-301		Warning: If this has data not measure 1" not to scale		Date: _____ Drawn By: _____ Checked By: _____ Project Mgr: _____	
Survey: XXXX		Revision: _____ Description: _____ Area: _____		Date: _____ Drawn By: _____ Checked By: _____ Project Mgr: _____	

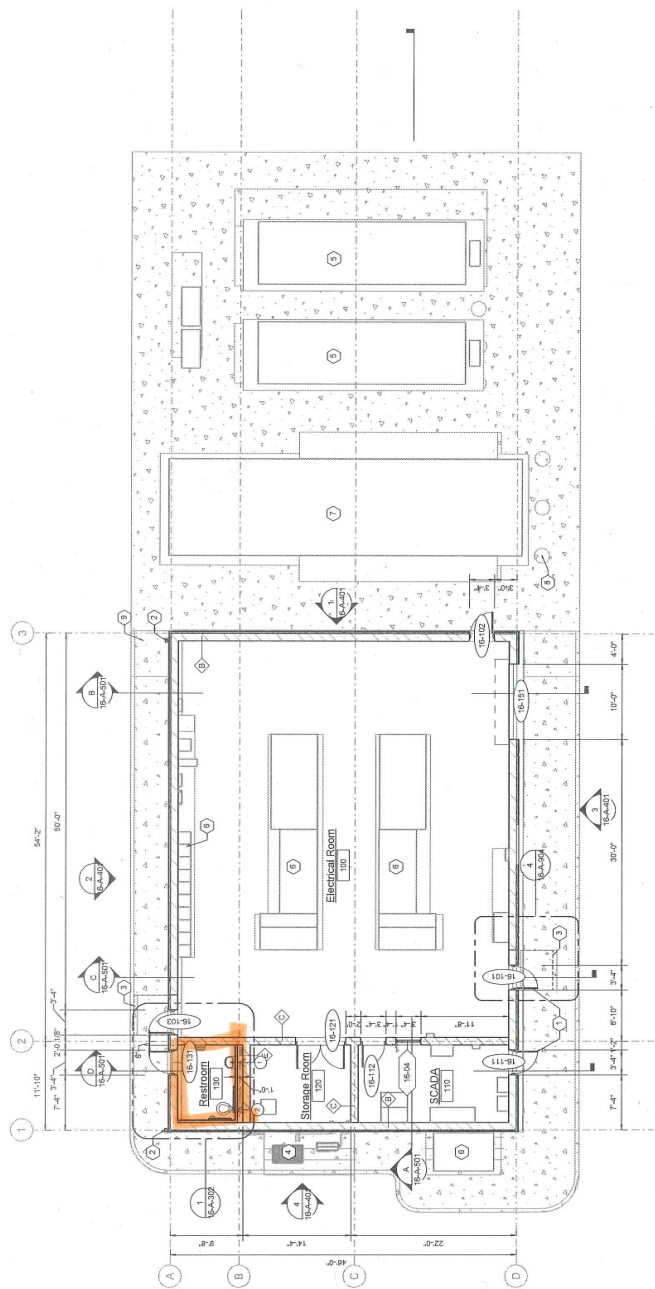


**SHEET KEYNOTE**

- 1. Indicate which floor level is shown.
- 2. Refer to the notes on this sheet for information.
- 3. Refer to the notes on this sheet for information.
- 4. Refer to the notes on this sheet for information.
- 5. Refer to the notes on this sheet for information.
- 6. Refer to the notes on this sheet for information.
- 7. Refer to the notes on this sheet for information.
- 8. Refer to the notes on this sheet for information.
- 9. Refer to the notes on this sheet for information.

**Plumbing Fixtures Keynotes**

- 1. Lavatory
- 2. Sink
- 3. Toilet
- 4. Shower
- 5. Bidet
- 6. Water closet
- 7. Urinal
- 8. Drinking fountain
- 9. Water cooler



**Floor Plan**  
SCALE: 1/8" = 1'-0"

				<p style="text-align: center;"><b>Bull Run Filtration Facility</b> <b>Architectural</b> North Electrical Complex Floor Plan</p>	<p>SWP Project No <b>W02229</b></p> <p>US Section 3765 / 3766</p> <p>Sheet No 16-A-301</p> <p>of</p>
<p>Designed By: [Blank] / [Blank] / [Blank] / [Blank]</p> <p>Drawn By: [Blank] / [Blank] / [Blank] / [Blank]</p> <p>Checked By: [Blank] / [Blank] / [Blank] / [Blank]</p> <p>Project No: [Blank] / [Blank] / [Blank] / [Blank]</p> <p>Date: [Blank] / [Blank] / [Blank] / [Blank]</p>		<p>Warning</p> <p>0 1 2 3</p> <p>If this bar does not measure 1" it is not to scale</p>		<p>David W. Patten, Principal Engineer, PE No. 18893</p> <p>Date: [Blank] / [Blank] / [Blank] / [Blank]</p>	
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22-160016-SE  
Rev 2

**Reschke, Lindsey**

**From:** Bowker, Christopher  
**Sent:** Thursday, August 25, 2022 5:17 PM  
**To:** Reschke, Lindsey  
**Subject:** RE: R342619 SE Carpenter Ln Checksheet  
**Attachments:** W02229\_FF\_00-LU-303-Sanitary Pipes.pdf; W02229\_FF\_SAN\_ELEVS.pdf; R342619 SE Carpenter Ln Checksheet\_Completed.pdf; Bull Run - Duplex Sewage Ejector Rev 1.pdf; Designer Septic System Sizing.pdf

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

I think based on our conversations the fixtures sizing can be challenging (like comparing apples to oranges). Our designers are identifying GPD based on their experience and LEED guidance (for PGD and usage) but I know you are using a table from DEQ, which I think means you're looking at that number and then adding in fixtures that aren't already built in to that.

I'm forwarding the complete usage table from our designers as well as (tried) to translate this information into the DEQ format. Most of the sinks are for hand washing, so it sounds like they would be built into DEQs numbers, but it would seem the WQ analysis room dishwasher, WQ analysis room sinks, mop sinks, clothes washers, and sinks in maintenance bay fall outside DEQs numbers as they are "extra" fixtures not normally accounted for since they are related to specific spaces/activities(?).

Designer estimates – attached. Includes visitors.

Sizing rationale using DEQ Tables plus loading not included in those DEQ assumptions:

Sizing Rationale				Characterized Frequency
	Quantity	GPD	Total	
employees (12 hr shift)	3	42.5	127.5	Daily 35gpd/8hr + 7.5gpd/4 hr
employees (8 hr shifts)	7	35	245	Daily
Locker washer	1 0.5	16	16	8 Every other day at most (used .5 days)
Maintenance washer	1 0.5	16	16	8 Every other day at most (used .5 days)
Water Analysis space - dishwasher	1	5	5	Per designer, a glassware dishwasher uses ~5 gals per wash
Water Analysis space - sinks	2	2.25	4.5	assumed 15 sec duration per use
Mop sink	2	10	20	assumed daily
Sink in Maintenance Bay	3	0.626	6 1.878	assumed daily (2 gal per sink x 3 sinks)
Visitors	30	5	150	Less than daily
	Grand	Total	569.878	
			594 gpd	
Table 2 minimum for "Factories (exclusive of industrial wastes — with shower facilities)"		300		Sink - mech dewater (1) = 2gpd Sink - chemical (1) = 2gpd Sink - maintenance bay (3) = 6gpd

**Reschke, Lindsey**

---

**From:** Bowker, Christopher  
**Sent:** Thursday, March 31, 2022 1:01 PM  
**To:** Reschke, Lindsey  
**Subject:** RE: R342619 SE Carpenter Ln SER 24-21

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Hi Lindsey,

Any wastes associated with drinking water quality analysis will be collected and stored appropriately (aka containerized) until they can be picked up and removed from the site. These wastes would *not* go to septic in any shape or form.

If I understand past conversations with you, we would still need to account for volumes of water that go to septic from fixtures (such as sinks, dishwashers, etc) not accounted for in the general staff shift numbers, for which I think you have values that you typically use.

**Christopher Bowker, P.E.**

Civil Engineer  
Portland Water Bureau  
Phone: 503.823.7464.

---

**From:** Reschke, Lindsey <Lindsey.Reschke@portlandoregon.gov>  
**Sent:** Thursday, March 31, 2022 12:44 PM  
**To:** Bowker, Christopher <Christopher.Bowker@portlandoregon.gov>  
**Subject:** RE: R342619 SE Carpenter Ln SER 24-21

Hi Christopher.

I am unclear what "containerization" means...can you help me out?

Thank you,

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

[lindsey.reschke@portlandoregon.gov](mailto: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>*



**Reschke, Lindsey**

---

**From:** YELTON-BRAM Tiffany \* DEQ <Tiffany.YELTON-BRAM@deq.oregon.gov>  
**Sent:** Wednesday, March 30, 2022 6:06 PM  
**To:** Bowker, Christopher; JOYE Jessica \* DEQ  
**Cc:** Wise, Douglas  
**Subject:** Re: For DEQ to determine permitting for wastewater from drinking water lab at the Filtration Plant

Hi Christopher

Sorry for the delay on our part. Jessica and I discussed this and are fine with the concept you describe where no wastewater from the drinking water lab and treatment will go to the septic.

Thanks

Tiffany Yelton-Bram

Sent via the Samsung Galaxy S20 FE 5G, an AT&T 5G smartphone  
Get [Outlook for Android](#)

---

**From:** Bowker, Christopher <Christopher.Bowker@portlandoregon.gov>  
**Sent:** Wednesday, March 30, 2022 4:06:24 PM  
**To:** YELTON-BRAM Tiffany \* DEQ <Tiffany.YELTON-BRAM@deq.oregon.gov>; JOYE Jessica \* DEQ <Jessica.JOYE@deq.oregon.gov>  
**Cc:** Wise, Douglas <Douglas.Wise@portlandoregon.gov>  
**Subject:** RE: For DEQ to determine permitting for wastewater from drinking water lab at the Filtration Plant

Hello Tiffany and Jessica,

I'm following up to see if you had a chance to review this – is what we've proposed an acceptable solution? If so, please let us know so we can forward confirmation of DEQ approval of this approach to BDS.

Thank you,

**Christopher Bowker, P.E.**

Civil Engineer  
Portland Water Bureau  
Phone: 503.823.7464.

---

**From:** Bowker, Christopher  
**Sent:** Friday, March 11, 2022 11:23 AM  
**To:** YELTON-BRAM Tiffany \* DEQ <Tiffany.YELTON-BRAM@deq.oregon.gov>; JOYE Jessica \* DEQ <Jessica.JOYE@deq.oregon.gov>  
**Cc:** Wise, Douglas <Douglas.Wise@portlandoregon.gov>  
**Subject:** RE: For DEQ to determine permitting for wastewater from drinking water lab at the Filtration Plant

Good Morning Tiffany and Jessica,

Apologies for the long wait time. I am writing to follow up on the conversation we were having regarding the septic system for the City of Portland Water Bureau's proposed Filtration Facility. The Portland Water Bureau has determined that the simplest way to address concerns with loading to the proposed septic system is to avoid sending any wastes

associated with drinking water quality analysis to the on-site septic. Our facility design will be refined to allow for adequate and appropriate containerization of this relatively small volume of material.

Traditional domestic-strength wastes commonly generated by commercial buildings, such as sanitary fixtures, sinks & dishwashers, would go to septic and those loads would be accounted for in septic sizing with the County (which defers to BDS). If this is an acceptable solution, please let us know so we can forward confirmation of DEQ approval of this approach to BDS.

Thank you,

**Christopher Bowker, P.E.**

Civil Engineer

Portland Water Bureau

Phone: 503.823.7464.

---

**From:** YELTON-BRAM Tiffany \* DEQ <[Tiffany.YELTON-BRAM@deq.oregon.gov](mailto:Tiffany.YELTON-BRAM@deq.oregon.gov)>

**Sent:** Tuesday, January 4, 2022 11:40 AM

**To:** Bowker, Christopher <[Christopher.Bowker@portlandoregon.gov](mailto:Christopher.Bowker@portlandoregon.gov)>; JOYE Jessica \* DEQ <[Jessica.JOYE@deq.oregon.gov](mailto:Jessica.JOYE@deq.oregon.gov)>

**Cc:** Wise, Douglas <[Douglas.Wise@portlandoregon.gov](mailto:Douglas.Wise@portlandoregon.gov)>

**Subject:** RE: For DEQ to determine permitting for wastewater from drinking water lab at the Filtration Plant

Thank you very much!

---

**From:** Bowker, Christopher <[Christopher.Bowker@portlandoregon.gov](mailto:Christopher.Bowker@portlandoregon.gov)>

**Sent:** Tuesday, January 4, 2022 11:38 AM

**To:** YELTON-BRAM Tiffany \* DEQ <[Tiffany.YELTON-BRAM@deq.oregon.gov](mailto:Tiffany.YELTON-BRAM@deq.oregon.gov)>; JOYE Jessica \* DEQ <[Jessica.JOYE@deq.oregon.gov](mailto:Jessica.JOYE@deq.oregon.gov)>

**Cc:** Wise, Douglas <[Douglas.Wise@portlandoregon.gov](mailto:Douglas.Wise@portlandoregon.gov)>

**Subject:** RE: For DEQ to determine permitting for wastewater from drinking water lab at the Filtration Plant

Hello Tiffany and Jessica,

Thank you for the follow-up email. PWB staff met this morning to walk through how to get you the information you need to make an assessment. I thought I'd confirm that I will be working with PWB staff to develop a list of anticipated chemicals/products, volumes, and flows associated with the proposed laboratory greywater (and will forward this information once we have it). I will also continue to keep Doug in the loop as we navigate this process.

Thank you,

**Christopher Bowker, P.E.**

Civil Engineer

Portland Water Bureau

Phone: 503.823.7464.

---

**From:** YELTON-BRAM Tiffany \* DEQ <[Tiffany.YELTON-BRAM@deq.oregon.gov](mailto:Tiffany.YELTON-BRAM@deq.oregon.gov)>

**Sent:** Monday, January 3, 2022 4:58 PM

**To:** Bowker, Christopher <[Christopher.Bowker@portlandoregon.gov](mailto:Christopher.Bowker@portlandoregon.gov)>; Wise, Douglas <[Douglas.Wise@portlandoregon.gov](mailto:Douglas.Wise@portlandoregon.gov)>



Cc: JOYE Jessica \* DEQ <Jessica.JOYE@deq.oregon.gov>

Subject: For DEQ to determine permitting for wastewater from drinking water lab at the Filtration Plant

Hello Christopher and Doug

I am writing to you both to make sure I am understanding the scope of the Filtration Plant project and to keep DEQ and PWB on the same page. Before the Christmas holiday, Christopher reached out to a staff person in my section at the request of Lindsey Reschke. The reason for the communication was to determine if wastewater from the lab that will be at the plant can go into the septic system that serves the plant. Lindsey had spoken with Jessica Joye in DEQ's Onsite Septic program so I've cc'd Jessica here. Onsite septic systems are governed by Oregon Administrative Rules 340-071. The definitions in the rules are applied by DEQ staff in the Onsite program and our local government agents. In this case, there is a question about whether the wastewaters from a lab fit the definitions in the rules that cover the wastewaters that can be discharged to the septic system. The alternative, if the wastewaters cannot be discharged to septic, are to either cover the discharge as a wastewater under the NPDES permit that will be issued to the filtration plant (which is a modification of the existing NPDES permit issued to PWB that I've discussed with Doug) or PWB can apply for a separate permit from DEQ to allow discharge to ground or surface water after treatment.

To make any sort of assessment, DEQ will need to know more about the wastewater from the lab. As I mentioned to Christopher last Thursday, this is information on about the chemicals and products used in the lab, the volume of those chemicals and products in the water to be discharged and the total volume of wastewater from the lab overall. We'd also like to see any Standard Operating Procedures for handling the wastewaters. I am making an assumption here but I suspect that the current Groundwater Pump Station or other sites in the PWB system have labs like the one proposed for the Filtration Plant. If so, any information from that lab would be a great place to start. Please send the information to me and I will work with the appropriate staff to determine the path forward. I am happy to schedule a meeting after we have an idea of wastewater that needs to be covered. Thank you.

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