



Technical Memorandum

Subject: Filtration Facility Land Use Application Pipeline Drawings **A.2 A Site Plans**

PWB Project #s: W02229

Date: September 23, 2022

To: Dan Hogan, P.E., Project Manager
Portland Water Bureau

From: Brad Phelps, P.E., Project Manager
Jacobs



EXPIRES: 12/31/2022

Jacobs

The drawings attached to this technical memorandum (TM) were prepared in support of the City of Portland Water Bureau’s Bull Run Facility Pipelines land use applications in Multnomah County. These drawings were prepared under the direction of a registered professional engineer. These drawings reflect the current status of the Facility Pipelines design, which is approximately 60% complete as of the date of this TM and are considered preliminary and are not for final construction. The drawings are subject to change have been prepared and compiled for the specific purpose of addressing conformance of the project to Multnomah County land use requirements as expressed in the Multnomah County Code.

The contents of each set of drawings are listed in the tables below.

Table 1. Site Plan Drawings		
Drawing Number	Drawing Name	Description
LU-000	COVER SHEET	COVER SHEET
LU-001	KEY MAP	KEY MAP OF SHEETS
LU-002	ZONING MAP	ZONING MAP
LU-100	RAW WATER PIPELINE EXISTING CONDITIONS GRID 1, GRID 2, GRID 3	RAW WATER PIPELINE EXISTING CONDITIONS
LU-102	FINISHED WATER PIPELINE EXISTING CONDITIONS GRID 4, GRID 5	FINISHED WATER PIPELINE EXISTING CONDITIONS AT DODGE PARK
LU-103	FINISHED WATER PIPELINE EXISTING CONDITIONS GRID 6, GRID 7	FINISHED WATER PIPELINE EXISTING CONDITIONS AT DODGE PARK
LU-104	FINISHED WATER PIPELINE EXISTING CONDITIONS GRID 8, GRID 9	FINISHED WATER PIPELINE EXISTING CONDITIONS AT INTERTIE
LU-105	FINISHED WATER PIPELINE EXISTING CONDITIONS GRID 10, GRID 11	FINISHED WATER PIPELINE EXISTING CONDITIONS AT LUSTED AND ALTMAN
LU-106	FINISHED WATER PIPELINE EXISTING CONDITIONS GRID 12, GRID 13	FINISHED WATER PIPELINE EXISTING CONDITIONS AT ALTMAN
LU-107	FINISHED WATER PIPELINE EXISTING CONDITIONS GRID 14, GRID 15	FINISHED WATER PIPELINE EXISTING CONDITIONS AT COTTRELL
LU-108	FINISHED WATER PIPELINE EXISTING CONDITIONS GRID 16	FINISHED WATER PIPELINE EXISTING CONDITIONS EAST OF LUSTED HILL TREATMENT FACILITY
LU-200	RAW WATER PIPELINE PROPOSED CONDITIONS GRID 1, GRID 2, GRID 3	RAW WATER PIPELINE PROPOSED CONDITIONS
LU-201	FINISHED WATER PIPELINE PROPOSED CONDITIONS GRID 4, GRID 5	FINISHED WATER PIPELINE PROPOSED CONDITIONS AT DODGE PARK

Table 1. Site Plan Drawings

Drawing Number	Drawing Name	Description
LU-202	FINISHED WATER PIPELINE PROPOSED CONDITIONS GRID 6, GRID 7	FINISHED WATER PIPELINE PROPOSED CONDITIONS AT DODGE PARK
LU-203	FINISHED WATER PIPELINE PROPOSED CONDITIONS GRID 8, GRID 9	FINISHED WATER PIPELINE PROPOSED CONDITIONS AT INTERTIE
LU-204	FINISHED WATER PIPELINE PROPOSED CONDITIONS GRID 10, GRID 11	FINISHED WATER PIPELINE PROPOSED CONDITIONS AT LUSTED AND ALTMAN
LU-205	FINISHED WATER PIPELINE PROPOSED CONDITIONS GRID 12, GRID 13	FINISHED WATER PIPELINE PROPOSED CONDITIONS AT ALTMAN
LU-206	FINISHED WATER PIPELINE PROPOSED CONDITIONS GRID 14, GRID 15	FINISHED WATER PIPELINE PROPOSED CONDITIONS AT COTTRELL
LU-207	FINISHED WATER PIPELINE PROPOSED CONDITIONS GRID 16	FINISHED WATER PIPELINE PROPOSED CONDITIONS EAST OF LUSTED HILL TREATMENT FACILITY
LU-500	FINISHED WATER INTERTIE CIVIL SITE PLAN	FINISHED WATER INTERTIE CIVIL SITE PLAN
LU-501	FINISHED WATER INTERTIE LANDSCAPE PLAN	FINISHED WATER INTERTIE LANDSCAPE PLAN
LU-502	FINISHED WATER INTERTIE VISUALIZATIONS	FINISHED WATER INTERTIE VISUALIZATIONS

LEGEND

-  BASE ZONING
-  SEC ZONES
-  P/L PROPERTY
-  R/W RIGHT OF WAY
-  GEOLOGIC HAZARDS OVERLAY

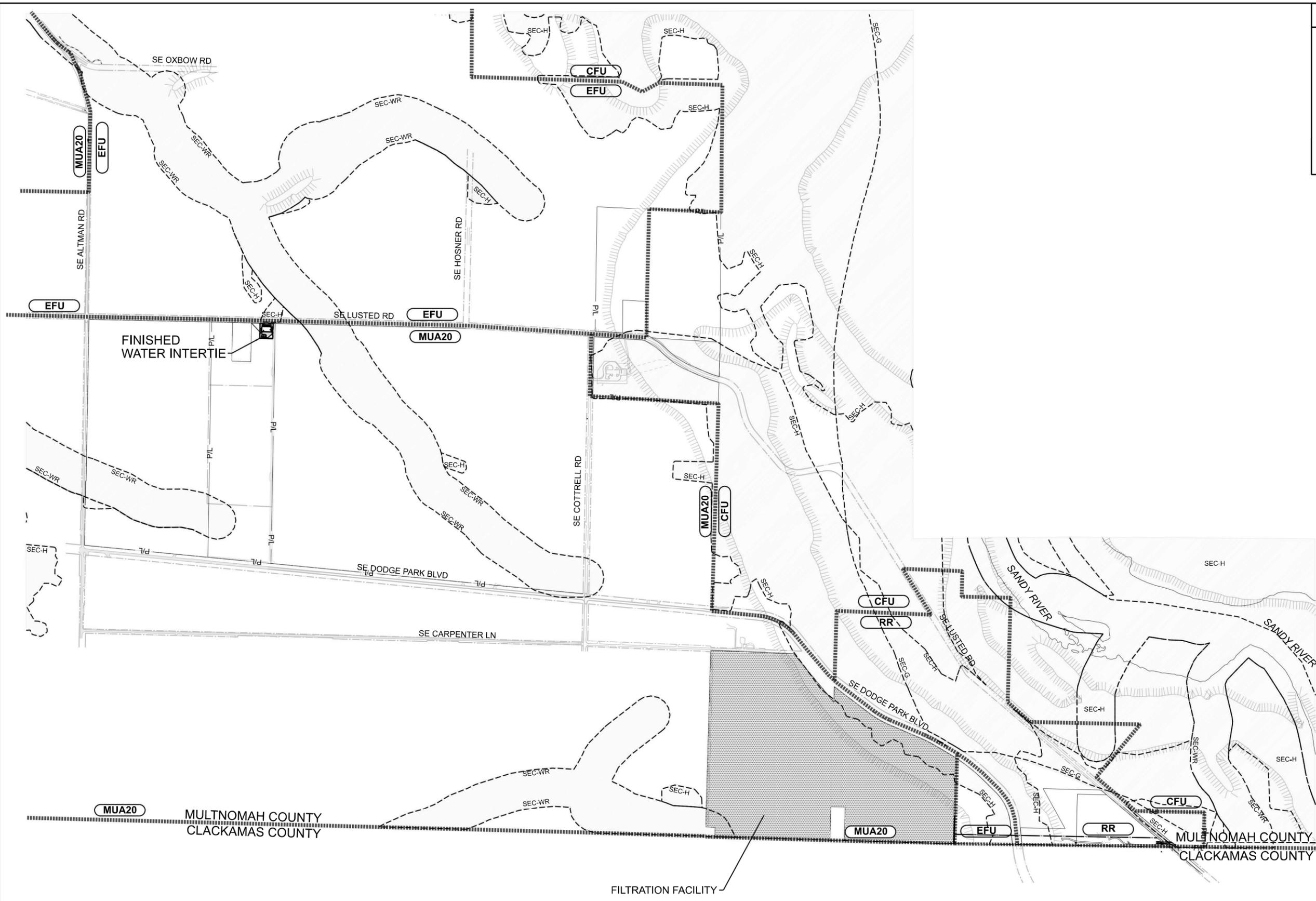
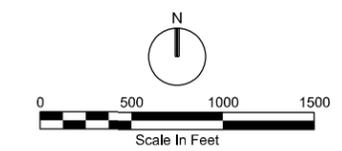


Exhibit A.19.c

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No	Date	Description	Appd

MULTNOMAH COUNTY
CLACKAMAS COUNTY

**PRELIMINARY
NOT FOR
CONSTRUCTION**

Designed By	DC	Program Mgr	XXX
Drawn By	DC	Const Mgr	XXX
Checked By	BN	Const Supvr	XXX
Project Mgr	XXX	Date	6/30/22

WARNING
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If this bar does not measure 1" then the drawing is not to scale



XXX XXX _____ Date _____
XXX XXX _____ Date _____

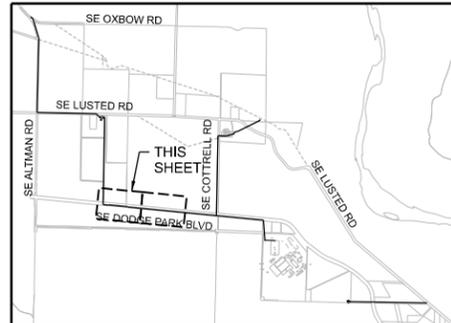
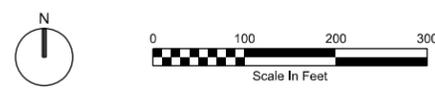
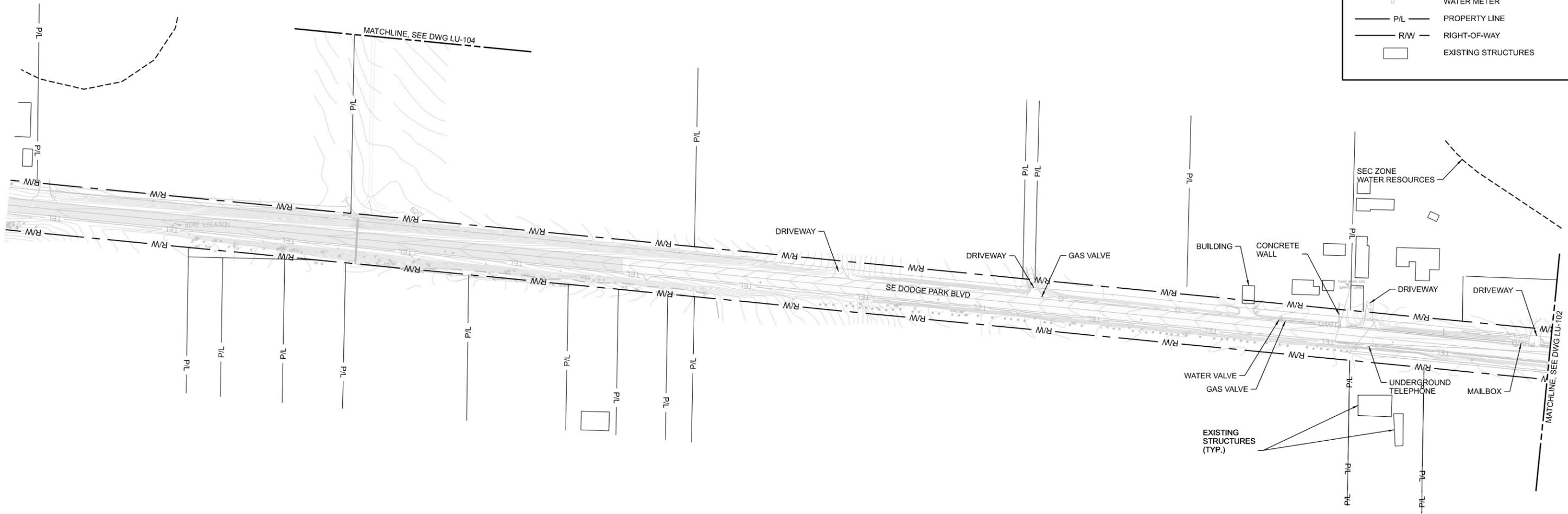


Bull Run Filtration Pipelines

ZONING MAP

SAP Project No	W02563
Sheet No	LU-002

LEGEND	
---	SEC ZONE
☼	CONIFEROUS TREE
○	DECIDUOUS TREE
⊠	ELECTRICAL VAULT
⊕	UTILITY POLE
⊞	WATER METER
---	P/L
---	R/W
□	EXISTING STRUCTURES



KEYPLAN
Exhibit A.19.f

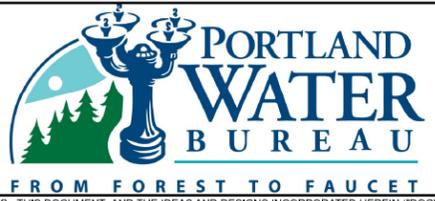
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No	Date	Description	Appd
Revisions			
Survey			

**PRELIMINARY
NOT FOR
CONSTRUCTION**

Designed By	RG	Program Mgr	XXX
Drawn By	JSL	Const Mgr	XXX
Checked By	RG	Const Supvr	XXX
Project Mgr	XXX	Date	6/30/22

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Date

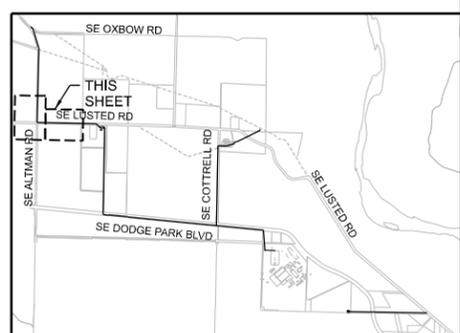
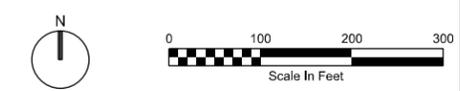
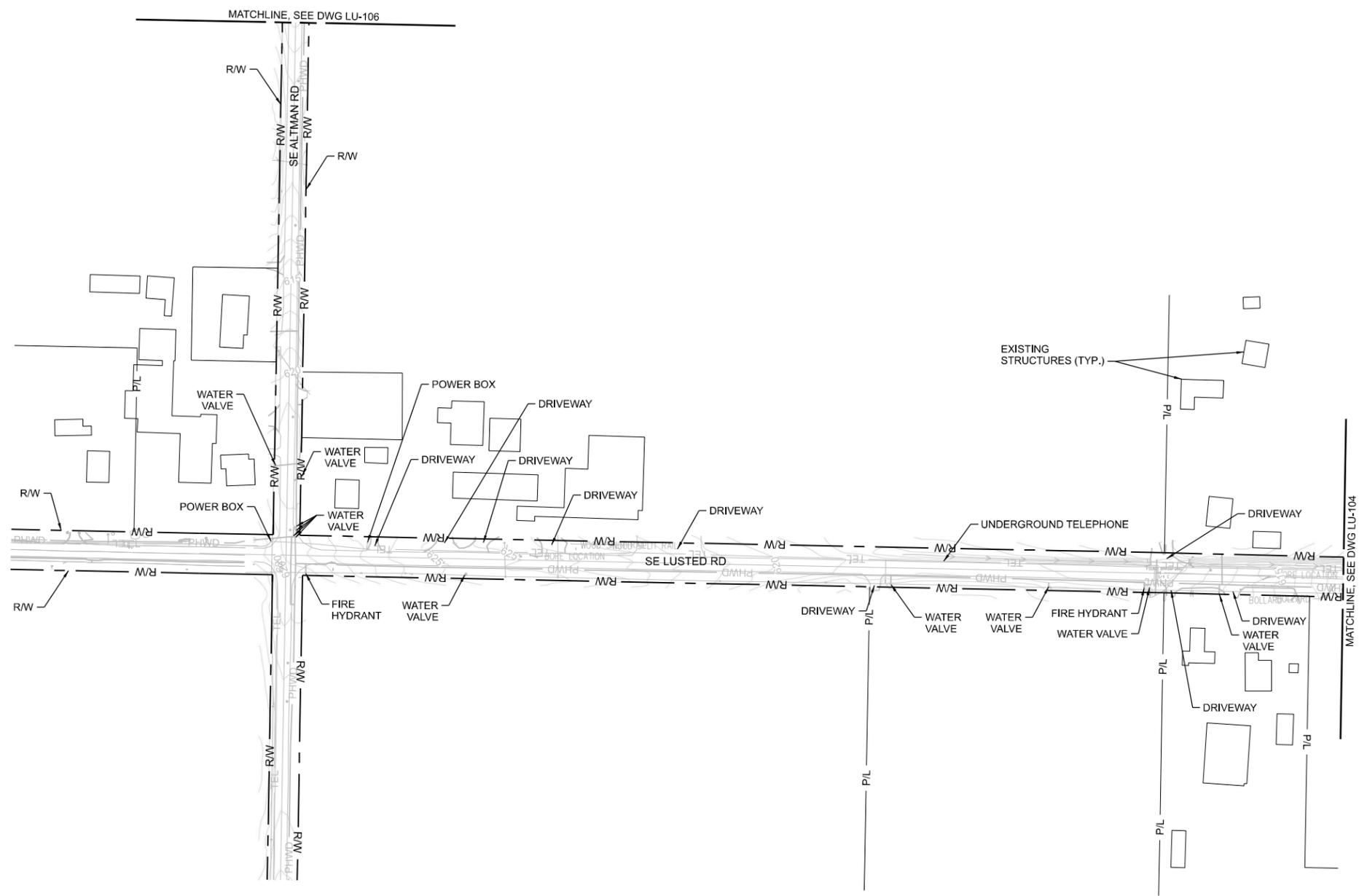
Date



**Bull Run Filtration Pipelines
FINISHED WATER PIPELINE
EXISTING CONDITIONS**
GRID 6, GRID 7

SAP Project No	W02563
1/4 Section	3764
Sheet No	LU-103

LEGEND	
	CONIFEROUS TREE
	DECIDUOUS TREE
	ELECTRICAL VAULT
	UTILITY POLE
	WATER METER
	SIGN
	COUNTY LINE
	PROPERTY LINE
	RIGHT-OF-WAY
	EXISTING STRUCTURES



KEYPLAN
Exhibit A.19.h

No	Date	Description	Appd
Revisions			
Survey			

**PRELIMINARY
NOT FOR
CONSTRUCTION**

Designed By	Program Mgr
Drawn By	Const Mgr
Checked By	Const Supvr
Project Mgr	Date
	6/30/22

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If this bar does not measure 1" then the drawing is not to scale



Date

Date



**Bull Run Filtration Pipelines
FINISHED WATER PIPELINE**
EXISTING CONDITIONS
GRID 10, GRID 11

SAP Project No	W02563
1/4 Section	3763
Sheet No	LU-105

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LEGEND	
---	SEC ZONE
☼	CONIFEROUS TREE
○	DECIDUOUS TREE
⊠	ELECTRICAL VAULT
⊕	UTILITY POLE
⊞	WATER METER
- · - · -	COUNTY LINE
— PL —	PROPERTY LINE
— R/W —	RIGHT-OF-WAY
- - - EL - - -	EASEMENT
□	EXISTING STRUCTURES

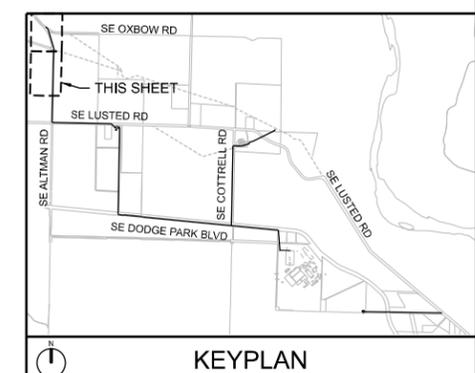
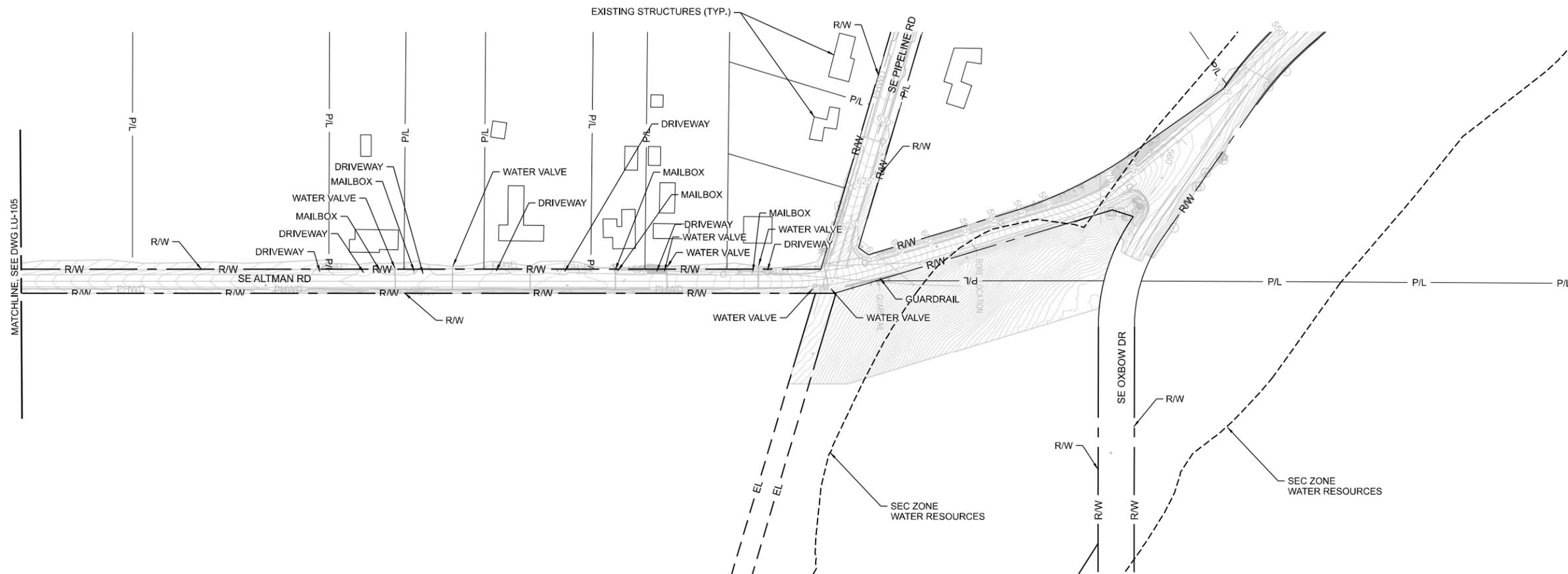


Exhibit A.19.i

No	Date	Description	Appd
Revisions			
Survey			

**PRELIMINARY
NOT FOR
CONSTRUCTION**

Designed By	Program Mgr
Drawn By	Const Mgr
Checked By	Const Supvr
Project Mgr	Date
	6/30/22

WARNING
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If this bar does not measure 1" then the drawing is not to scale



Date

Date

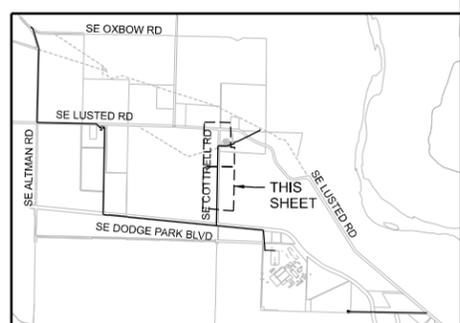
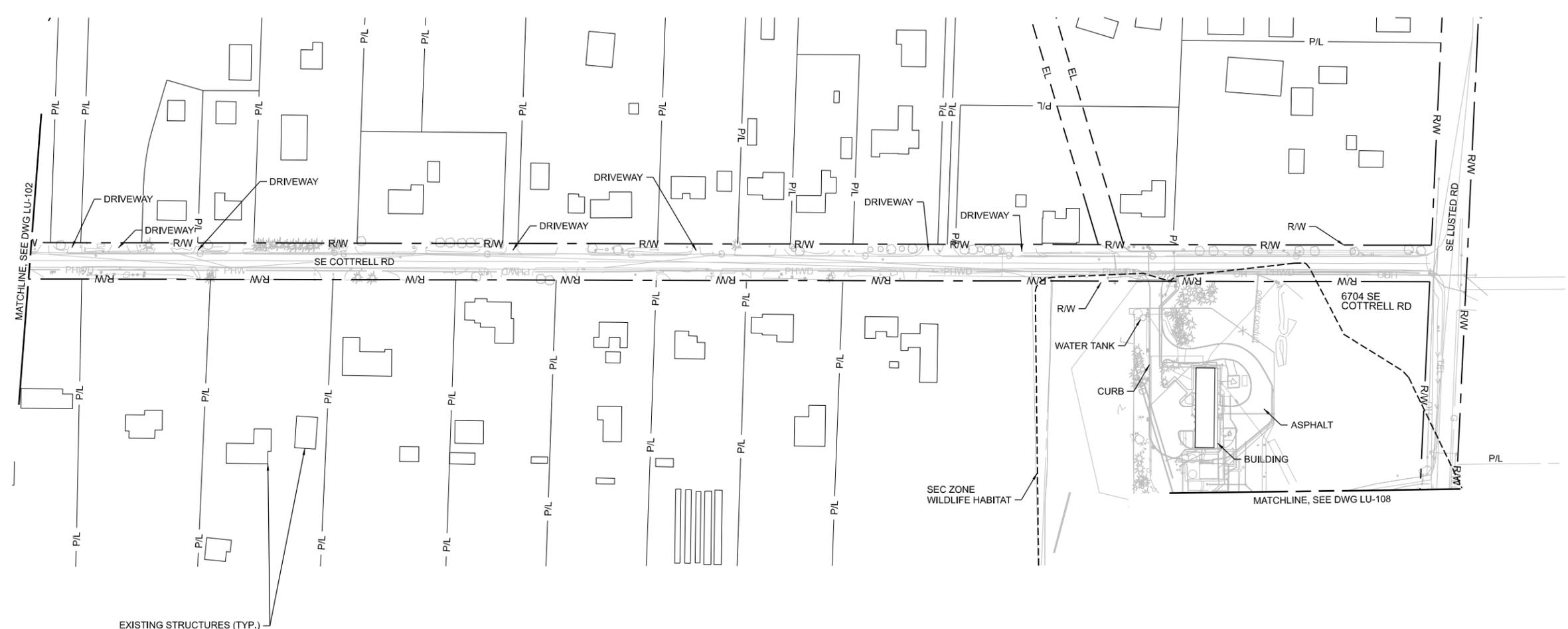


**Bull Run Filtration Pipelines
FINISHED WATER PIPELINE**
EXISTING CONDITIONS
GRID 12, GRID 13

SAP Project No	W02563
1/4 Section	3763
Sheet No	LU-106

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LEGEND	
-----	SEC ZONE
☼	CONIFEROUS TREE
○	DECIDUOUS TREE
■	STORM INLET
□	ELECTRICAL VAULT
+	UTILITY POLE
○	WATER METER
-----	COUNTY LINE
— P/L —	PROPERTY LINE
— R/W —	RIGHT-OF-WAY
- - - - - EL - - - - -	EASEMENT
□	EXISTING STRUCTURES



KEYPLAN

Exhibit A.19.j

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No	Date	Description	Appd
Revisions			
Survey			

**PRELIMINARY
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CONSTRUCTION**

Designed By	Program Mgr
Drawn By	Const Mgr
Checked By	Const Supvr
Project Mgr	Date
	6/30/22

WARNING
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If this bar does not measure 1" then the drawing is not to scale



Date

Date

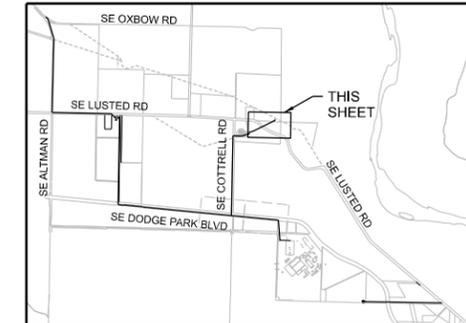
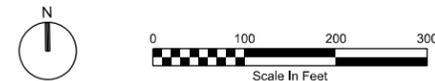
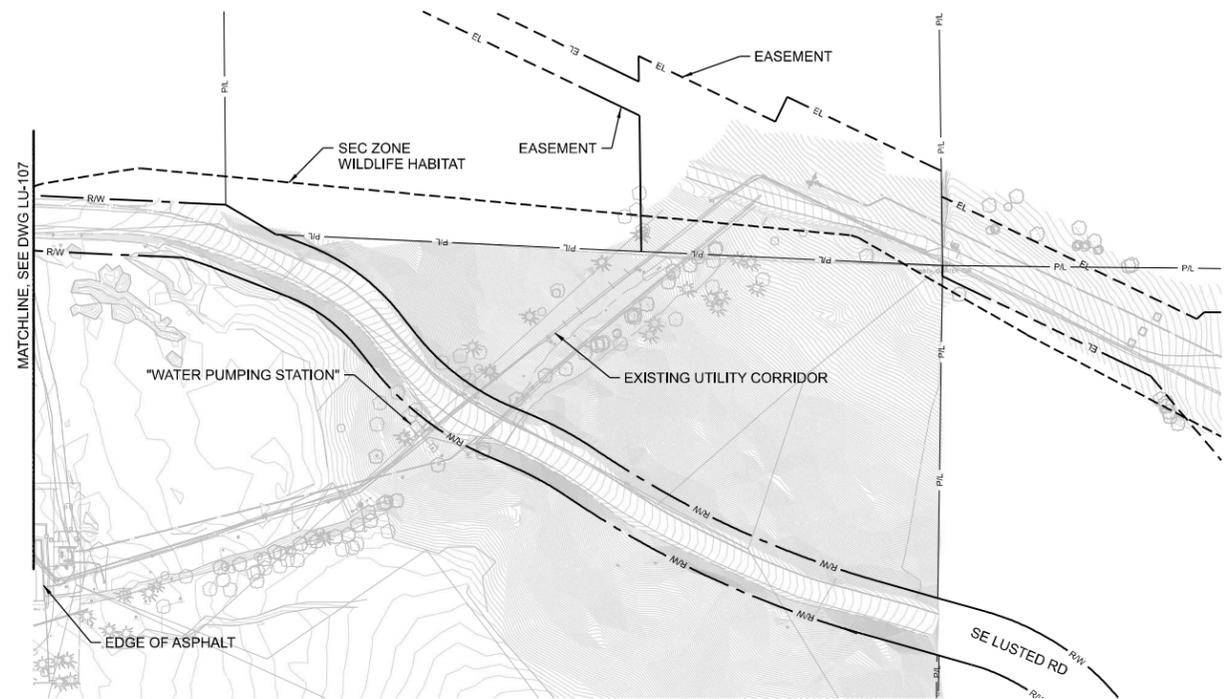


**Bull Run Filtration Pipelines
FINISHED WATER PIPELINE**

EXISTING CONDITIONS
GRID 14, GRID 15

SAP Project No W02563
1/4 Section
Sheet No LU-107

LEGEND	
-----	SEC ZONE
☎	CONIFEROUS TREE
○	DECIDUOUS TREE
-----	COUNTY LINE
— P/L —	PROPERTY LINE
— R/W —	RIGHT-OF-WAY
— EL —	EASEMENT



KEYPLAN
Exhibit A.19.k

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No	Date	Description	Appd
Revisions			
Survey			

**PRELIMINARY
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CONSTRUCTION**

Designed By	RG	Program Mgr	XXX
Drawn By	JSL	Const Mgr	XXX
Checked By	RG	Const Supvr	XXX
Project Mgr	XXX	Date	6/30/22

WARNING
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If this bar does not measure 1" then the drawing is not to scale



Date

Date



**Bull Run Filtration Pipelines
FINISHED WATER PIPELINE**
EXISTING CONDITIONS
GRID 16

SAP Project No	W02563
1/4 Section	3765
Sheet No	LU-108

GENERAL SHEET NOTES

1. ALL WORK AREAS RESTORED TO EXISTING GRADE
2. SEE SHEET GEN-L-061 FOR PLANT SCHEDULE AND SPEC 32 92 00 FOR SEEDING INFORMATION.
3. RESTORE EXISTING DRIVEWAYS IMPACTED DURING CONSTRUCTION.

LEGEND

-  ROADSIDE SEEDING
-  LAWN SEEDING
-  EXISTING STRUCTURES
-  CONTOURS
-  PIPELINE
-  SEC ZONE
-  CONIFEROUS TREE
-  DECIDUOUS TREE
-  EASEMENT
-  PROPERTY LINE
-  RIGHT OF WAY
-  IRRIGATION LINE

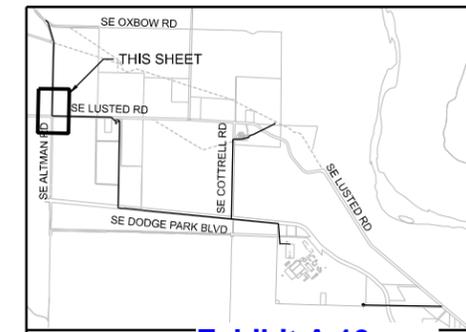
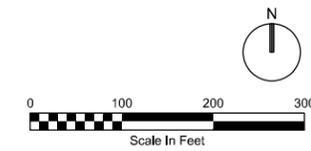
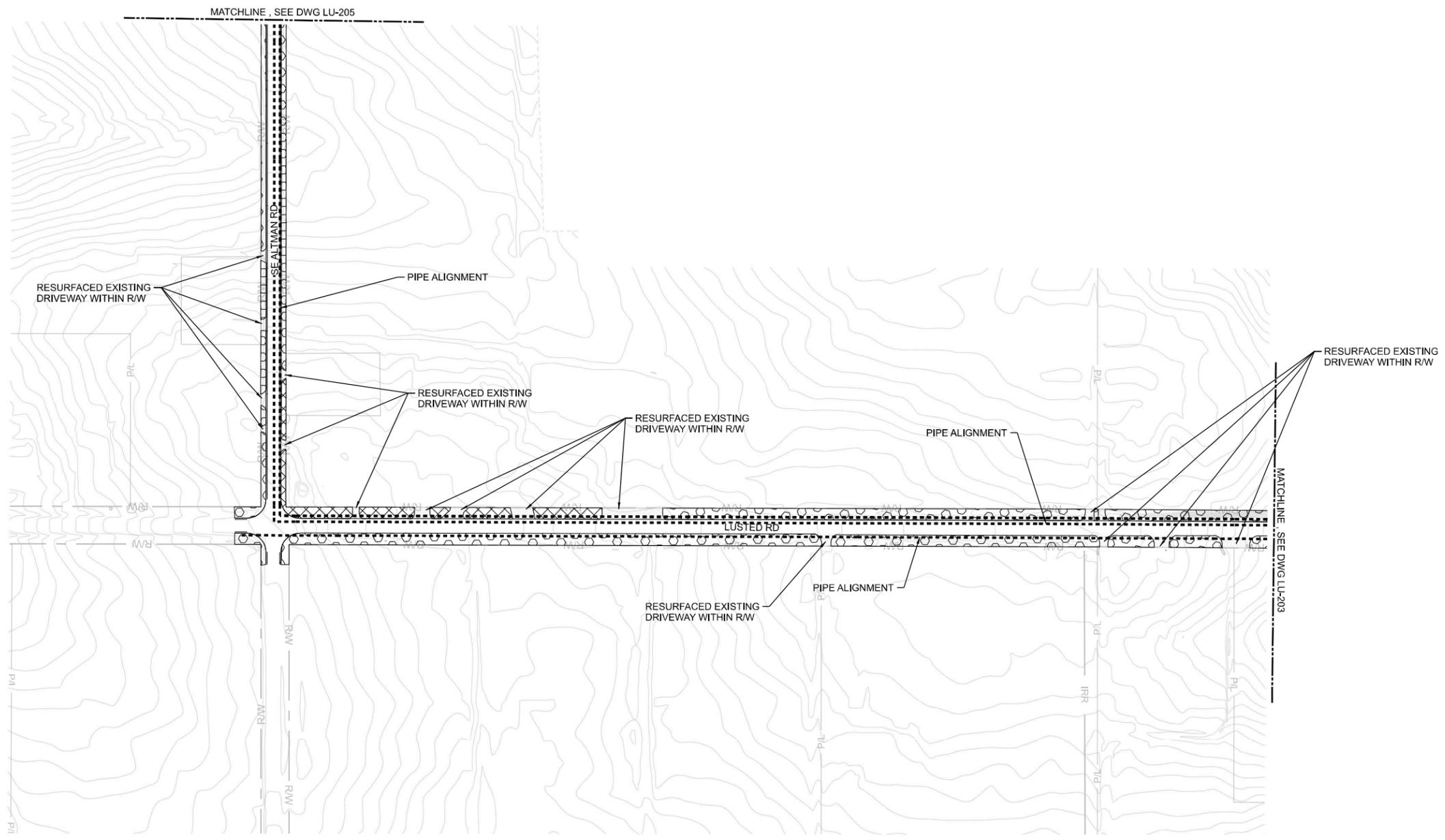


Exhibit A.19.p

No	Date	Description	Appd
Revisions			
Survey			

PRELIMINARY
NOT FOR
CONSTRUCTION

Designed By	DG	Program Mgr	XXX
Drawn By	DG	Const Mgr	XXX
Checked By	BN	Const Supvr	XXX
Project Mgr	XXX	Date	6/30/22

WARNING



If this bar does not measure 1" then the drawing is not to scale



Date

Date



**Bull Run Filtration Pipelines
FINISH WATER PIPELINE**

PROPOSED CONDITIONS PLAN
GRID 10, GRID 11

SAP Project No	W02563
1/4 Section	3764
Sheet No	LU-204

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GENERAL SHEET NOTES

1. ALL WORK AREAS RESTORED TO EXISTING GRADE
2. REFER TO SEC LH-01 (APPENDIX A.3) FOR DETAILS SEC WORK.
3. SEE SHEET GEN-L-061 FOR LANDSCAPE PLANT SCHEDULE AND SPEC 32 92 00 FOR SEEDING INFORMATION
4. RESTORE EXISTING DRIVEWAYS IMPACTED DURING CONSTRUCTION

LEGEND

- SEC SEEDING
Native grasses and forbs
- ROADSIDE SEEDING
- EXISTING STRUCTURES
- CONTOURS
- PIPELINE
- SEC ZONE
- CONIFEROUS TREE
- DECIDUOUS TREE
- EASEMENT
- P/L PROPERTY LINE
- R/W RIGHT OF WAY

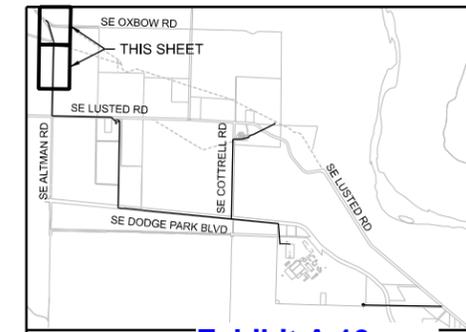
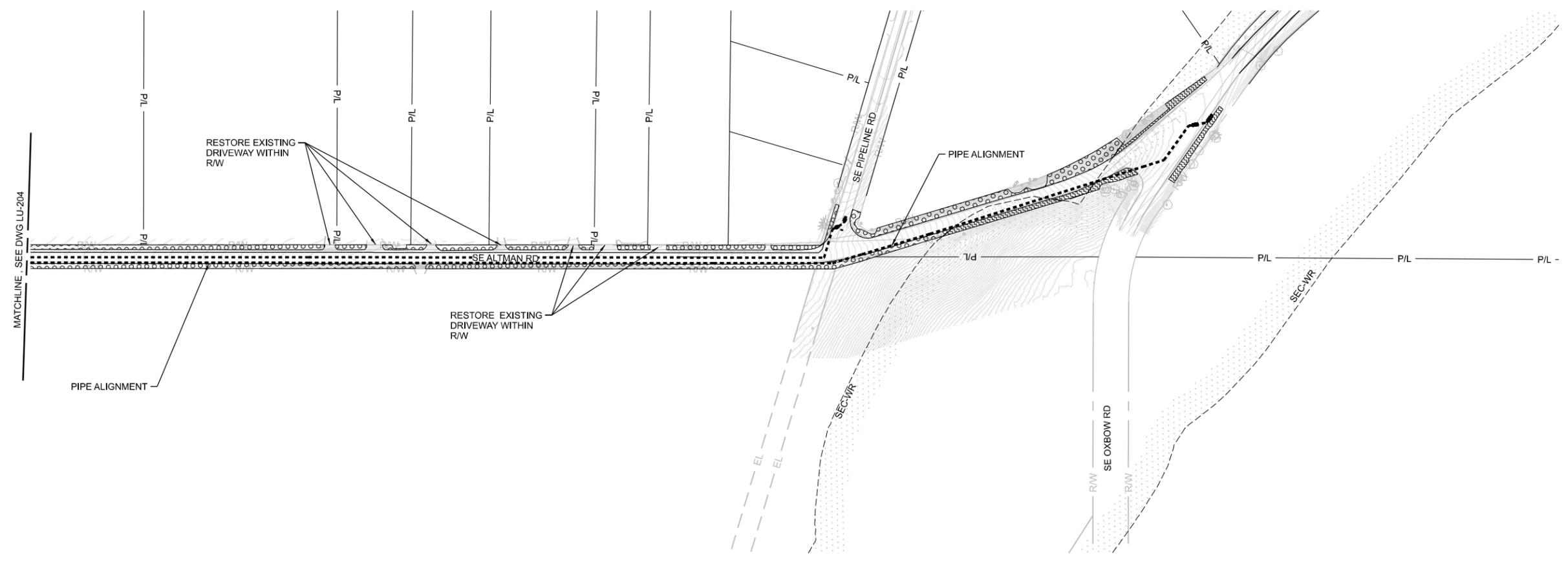


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No	Date	Description	Appd
Revision			
Survey			

**PRELIMINARY
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CONSTRUCTION**

Designed By	DG	Program Mgr	XXX
Drawn By	DG	Const Mgr	XXX
Checked By	BN	Const Supvr	XXX
Project Mgr	XXX	Date	6/30/22

WARNING
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If this bar does not measure 1" then the drawing is not to scale



Date
XXX XXX

Date
XXX XXX



**Bull Run Filtration Pipelines
FINISH WATER PIPELINE**

PROPOSED CONDITIONS PLAN
GRID 12, GRID 13

SAP Project No
W02563

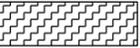
1/4 Section

Sheet No
LU-205

GENERAL SHEET NOTES

1. ALL WORK AREAS RESTORED TO EXISTING GRADE
2. REFER TO SEC LH-01 (APPENDIX A.3) FOR DETAILS SEC WORK.
3. SEE SHEET GEN-L-061 FOR LANDSCAPE PLANT SCHEDULE AND SPEC 32 92 00 FOR SEEDING INFORMATION

LEGEND

-  SEC SEEDING
Native grasses and forbs
-  EXISTING STRUCTURES
-  CONTOURS
-  PIPELINE
-  SEC ZONE
-  CONIFEROUS TREE
-  DECIDUOUS TREE
-  EL - EASEMENT
-  P/L - PROPERTY LINE
-  R/W - RIGHT OF WAY

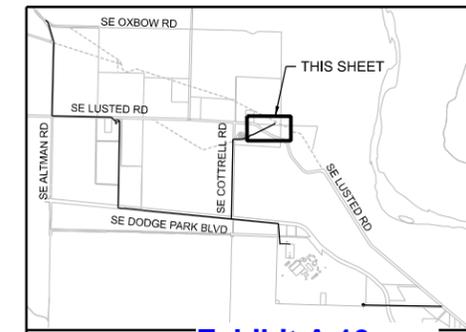
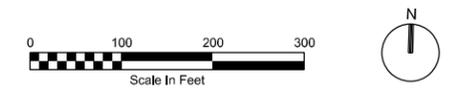
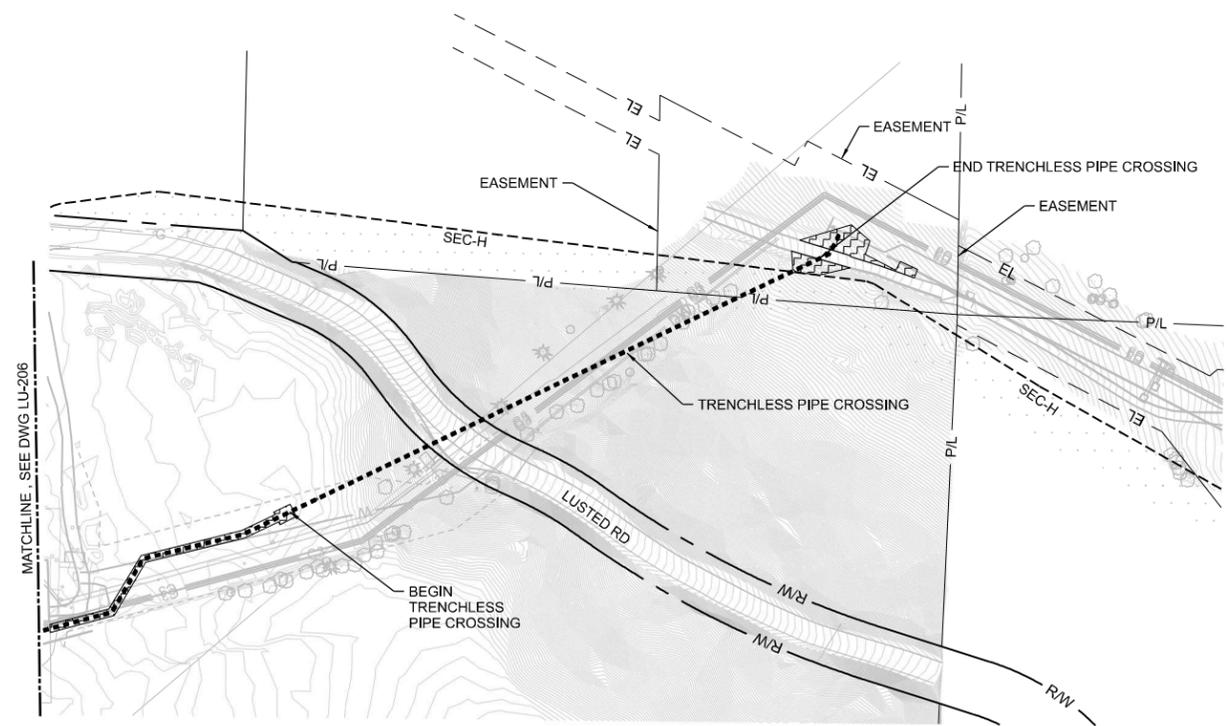


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No	Date	Description	Appd
Revisions			
Survey			

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CONSTRUCTION**

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Drawn By	DG	Const Mgr	XXX
Checked By	BN	Const Supvr	XXX
Project Mgr	XXX	Date	6/30/22

WARNING
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If this bar does not measure 1" then the drawing is not to scale



Date
XXX XXX

Date
XXX XXX



**Bull Run Filtration Pipelines
FINISH WATER PIPELINE**

PROPOSED CONDITIONS PLAN
GRID 16

SAP Project No	W02563
Sheet No	LU-207

