



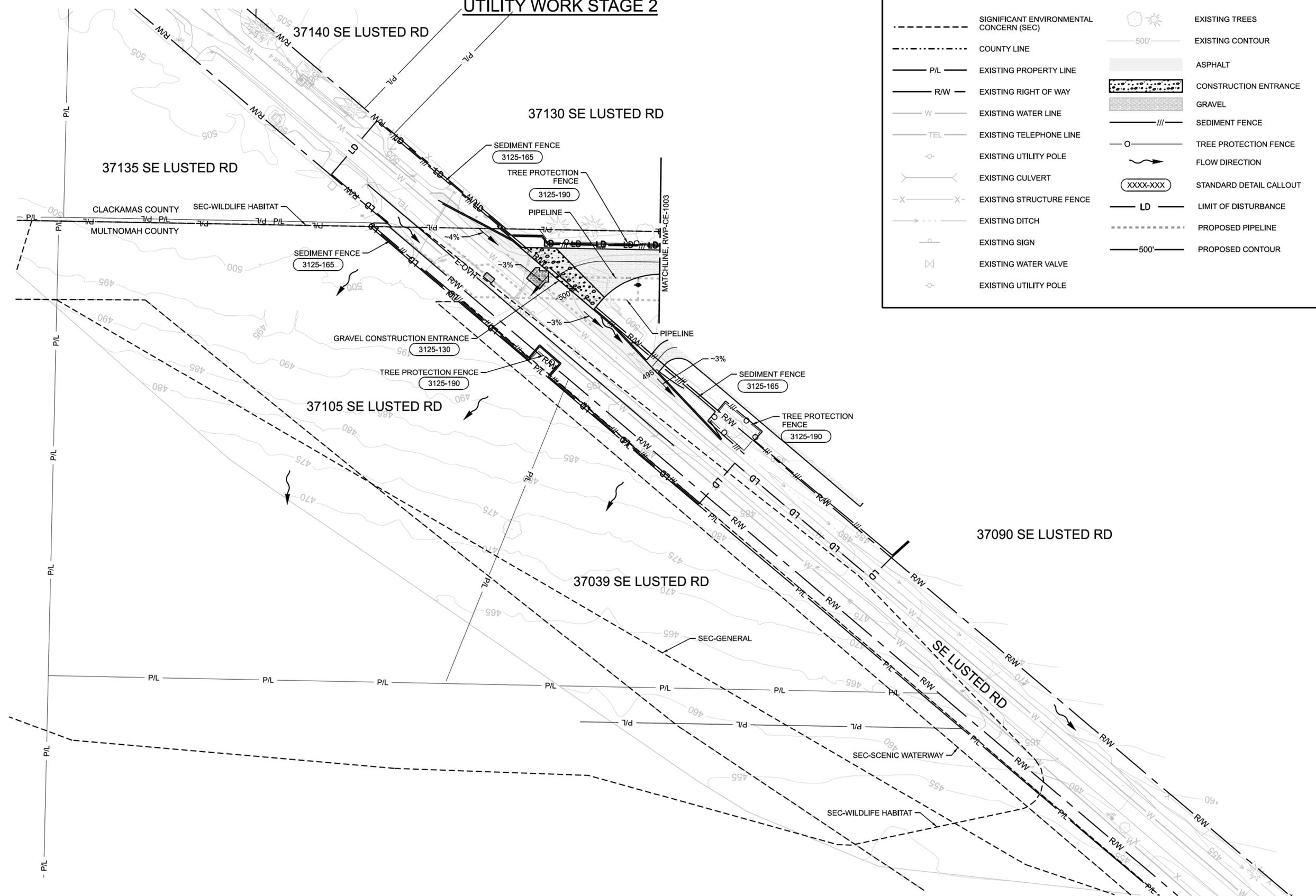




**UTILITY WORK STAGE 2**

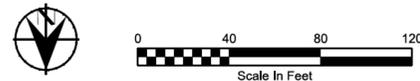
**LEGEND**

**GENERAL SHEET NOTES**



---	SIGNIFICANT ENVIRONMENTAL CONCERN (SEC)		EXISTING TREES
- - - - -	COUNTY LINE		EXISTING CONTOUR
— P/L —	EXISTING PROPERTY LINE		ASPHALT
— R/W —	EXISTING RIGHT OF WAY		CONSTRUCTION ENTRANCE
— W —	EXISTING WATER LINE		GRAVEL
— TEL —	EXISTING TELEPHONE LINE		SEDIMENT FENCE
	EXISTING UTILITY POLE		TREE PROTECTION FENCE
	EXISTING CULVERT		FLOW DIRECTION
	EXISTING STRUCTURE FENCE		STANDARD DETAIL CALLOUT
	EXISTING DITCH		LIMIT OF DISTURBANCE
	EXISTING SIGN		PROPOSED PIPELINE
	EXISTING WATER VALVE		PROPOSED CONTOUR
	EXISTING UTILITY POLE		

- REFER TO EROSION AND SEDIMENT CONTROLS NOTES, SHEET ESC-004.
- PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
- REMOVE AND REPLACE ROADWAY PAVEMENT WITHIN LIMITS OF DISTURBANCE TO MATCH EXISTING LINE AND GRADE.
- CONTRACTOR TO RE-GRADE DISTURBANCE AREA FROM PIPELINE CONSTRUCTION TO MATCH EXISTING GRADE, WHERE NOT OTHERWISE SHOWN ON DRAWINGS.
- ALL DISTURBANCE AREA NOT RECEIVING PAVEMENT OR GRAVEL, UNLESS OTHERWISE SHOWN, SHALL BE RESTORED WITH GRASS SEEDING. SLOPES STEEPER THAN 3:1 SHALL BE RESTORED WITH GRASS SEEDING AND PERMANENT EROSION CONTROL BLANKETS AS SPECIFIED AND PER DETAIL 3125-152, SHEET ESC-201.
- CONTOURS DISPLAYED AND LABELED EVERY 5FT.



**KEYPLAN**

27-APR-2023 00:41 8.W02563\_MUL-CE-1003.dgn

No	Date	Description	Appd
Revision			
Survey			

Designed By	Program Mgr
Drawn By	Const Mgr
Checked By	Const Supvr
Project Mgr	Date
	04/27/2023

**WARNING**

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

KENNETH M. ACKERMAN, PRINCIPAL ENGINEER, PE #19424

Date \_\_\_\_\_

**Bull Run Filtration Pipelines**

**MULTNOMAH CONNECTION**

**EROSION AND SED CONTROL**

UTILITY WORK STAGE 2  
GRID 1

SAP Project No  
**W02563**

1/4 Section  
3664 / 3764

Sheet No  
MUL-CE-1003

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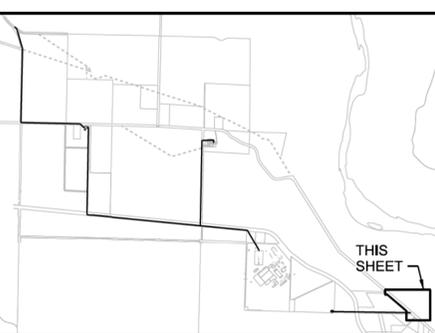
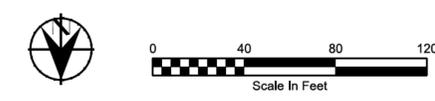
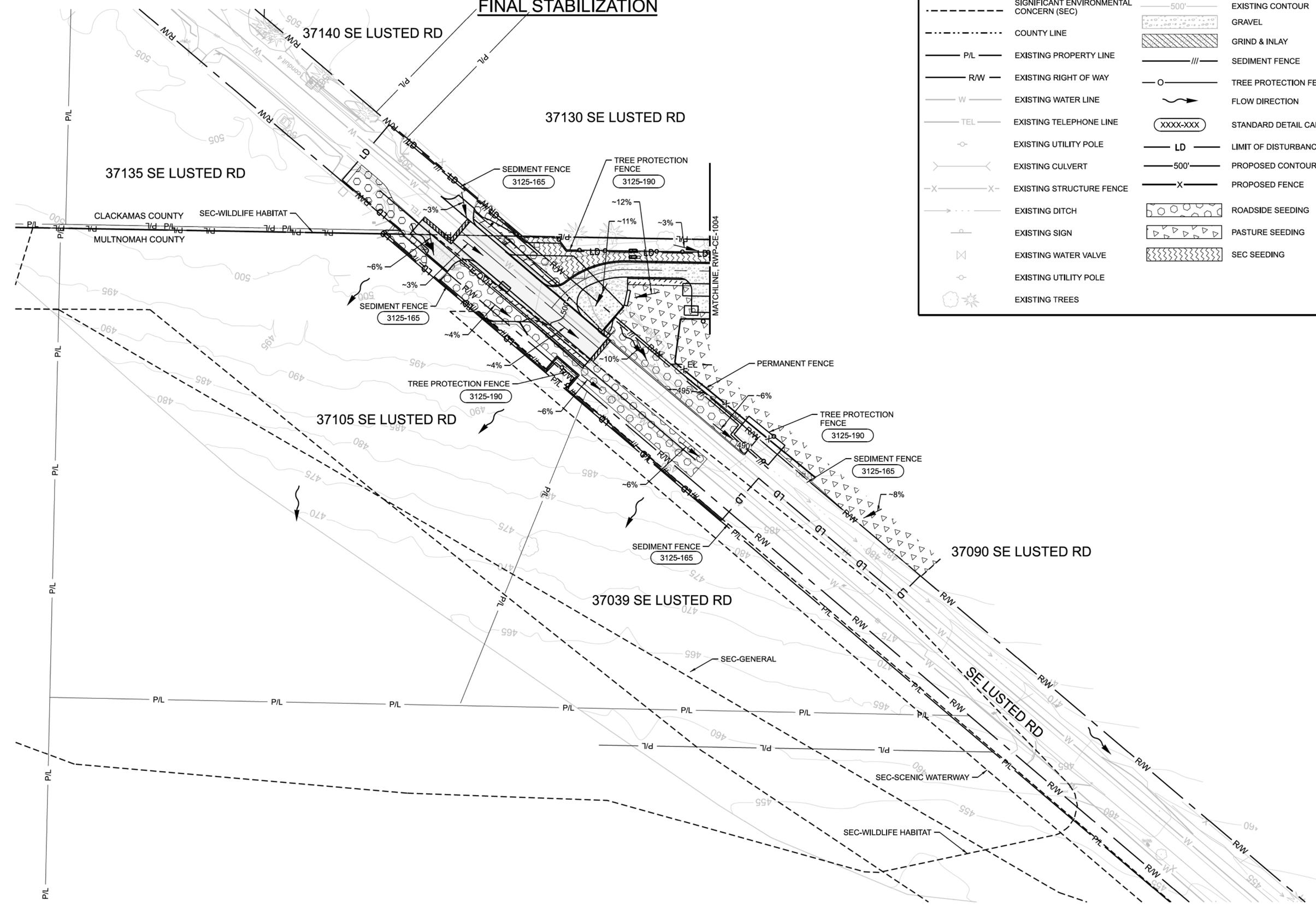
**FINAL STABILIZATION**

**LEGEND**

--- SEC ---	SIGNIFICANT ENVIRONMENTAL CONCERN (SEC)	500'	EXISTING CONTOUR
-----	COUNTY LINE	[Pattern]	GRAVEL
— P/L —	EXISTING PROPERTY LINE	[Pattern]	GRIND & INLAY
— R/W —	EXISTING RIGHT OF WAY		SEDIMENT FENCE
— W —	EXISTING WATER LINE	— O —	TREE PROTECTION FENCE
— TEL —	EXISTING TELEPHONE LINE	~>	FLOW DIRECTION
○	EXISTING UTILITY POLE	(XXX-XXX)	STANDARD DETAIL CALLOUT
— X —	EXISTING CULVERT	— LD —	LIMIT OF DISTURBANCE
— X —	EXISTING STRUCTURE FENCE	500'	PROPOSED CONTOUR
—>—>—	EXISTING DITCH	— X —	PROPOSED FENCE
—	EXISTING SIGN	[Pattern]	ROADSIDE SEEDING
—	EXISTING WATER VALVE	[Pattern]	PASTURE SEEDING
○	EXISTING UTILITY POLE	[Pattern]	SEC SEEDING
☼	EXISTING TREES		

**GENERAL SHEET NOTES**

- REFER TO EROSION AND SEDIMENT CONTROLS NOTES, SHEET ESC-004.
- PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
- REMOVE AND REPLACE ROADWAY PAVEMENT WITHIN LIMITS OF DISTURBANCE TO MATCH EXISTING LINE AND GRADE.
- CONTRACTOR TO RE-GRADE DISTURBANCE AREA FROM PIPELINE CONSTRUCTION TO MATCH EXISTING GRADE, WHERE NOT OTHERWISE SHOWN ON DRAWINGS.
- ALL DISTURBANCE AREA NOT RECEIVING PAVEMENT OR GRAVEL, UNLESS OTHERWISE SHOWN, SHALL BE RESTORED WITH GRASS SEEDING, SLOPES STEEPER THAN 3:1 SHALL BE RESTORED WITH GRASS SEEDING AND PERMANENT EROSION CONTROL BLANKETS AS SPECIFIED AND PER DETAIL 3125-152, SHEET ESC-201.
- UPON PROJECT COMPLETION REMOVE GRAVEL SURFACING FROM ALL STAGING AREAS AND RESTORE TOPSOIL AND SEED.
- CONTOURS DISPLAYED AND LABELED EVERY 5FT.
- REMOVE SEDIMENT FENCE AND TREE PROTECTION FENCE UPON FINAL SITE STABILIZATION.
- PERMANENT SEEDING MIXES SHOWN ON ESC-002 AND ESC-004.



**KEYPLAN**

28-APR-2023 16:51 9.W02563\_MUL-CE-1004.dgn

No	Date	Description	Appd

Designed By	Program Mgr
Drawn By	Const Mgr
Checked By	Const Supvr
Project Mgr	Date
	04/27/2023

**WARNING**

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



KENNETH M. ACKERMAN, PRINCIPAL ENGINEER, PE #19424

Date \_\_\_\_\_



**Bull Run Filtration Pipelines**

**MULTNOMAH CONNECTION**

**EROSION AND SED CONTROL**

FINAL STABILIZATION AND LANDSCAPE GRID 1

SAP Project No  
**W02563**

1/4 Section  
3664 / 3764

Sheet No  
MUL-CE-1004

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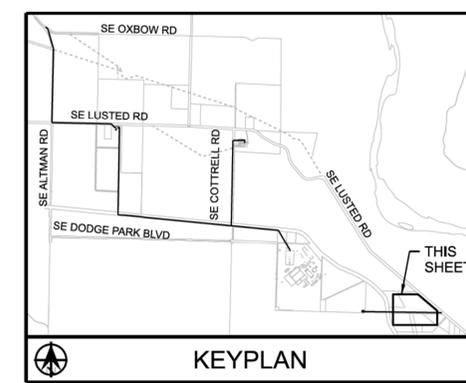
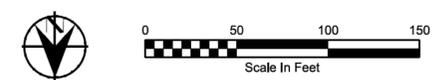
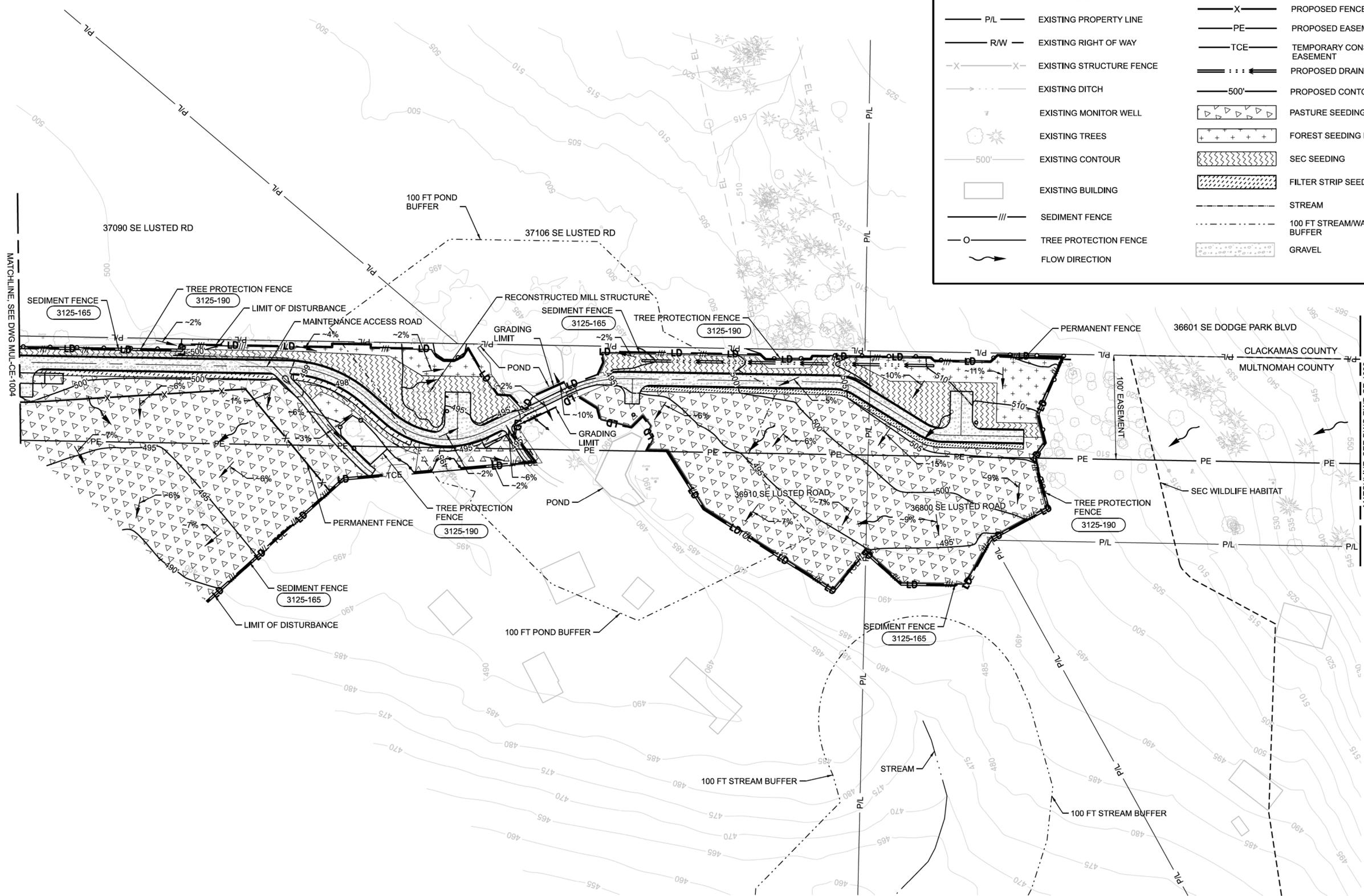
# FINAL STABILIZATION AND LANDSCAPE

## LEGEND

-----	SIGNIFICANT ENVIRONMENTAL CONCERN (SEC)	XXXX-XXX	STANDARD DETAIL CALLOUT
-----	COUNTY LINE	LD	LIMIT OF DISTURBANCE
— P/L —	EXISTING PROPERTY LINE	X	PROPOSED FENCE
— R/W —	EXISTING RIGHT OF WAY	PE	PROPOSED EASEMENT
-X-X-	EXISTING STRUCTURE FENCE	TCE	TEMPORARY CONSTRUCTION EASEMENT
→	EXISTING DITCH	---	PROPOSED DRAINAGE DITCH
○	EXISTING MONITOR WELL	500'	PROPOSED CONTOUR
○	EXISTING TREES	▽	PASTURE SEEDING
500'	EXISTING CONTOUR	+	FOREST SEEDING MIX
□	EXISTING BUILDING	▨	SEC SEEDING
///	SEDIMENT FENCE	▩	FILTER STRIP SEEDING
○	TREE PROTECTION FENCE	—	STREAM
~	FLOW DIRECTION	---	100 FT STREAM/WATER BODY BUFFER
		▨	GRAVEL

## GENERAL SHEET NOTES

- REFER TO EROSION AND SEDIMENT CONTROLS NOTES, SHEET ESC-004.
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- CONTRACTOR TO RE-GRADE DISTURBANCE AREA FROM PIPELINE CONSTRUCTION TO MATCH EXISTING GRADE, WHERE NOT OTHERWISE SHOWN ON DRAWINGS.
- ALL DISTURBANCE AREA NOT RECEIVING PAVEMENT OR GRAVEL, UNLESS OTHERWISE SHOWN, SHALL BE RESTORED WITH GRASS SEEDING, SLOPES STEEPER THAN 3:1 SHALL BE RESTORED WITH GRASS SEEDING AND PERMANENT EROSION CONTROL BLANKETS AS SPECIFIED AND PER DETAIL 3125-152, SHEET ESC-201.
- UPON PROJECT COMPLETION REMOVE GRAVEL SURFACING FROM ALL STAGING AREAS AND RESTORE TOPSOIL AND SEED.
- CONTOURS DISPLAYED AND LABELED EVERY 5 FT.
- REMOVE SEDIMENT FENCE AND TREE PROTECTION FENCE UPON FINAL SITE STABILIZATION.
- PERMANENT SEED MIXES SHOWN ON ESC-002 AND ESC-004.



12.W02563\_RWP-CE-1005.dgn

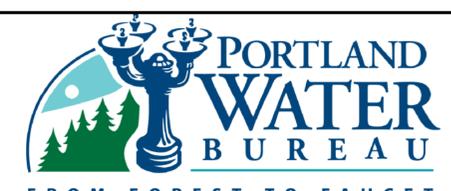
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No	Date	Description	Appd

Designed By	Program Mgr
Drawn By	Const Mgr
Checked By	Const Supvr
Project Mgr	Date
	04/27/2023

**WARNING**

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KENNETH M. ACKERMAN, PRINCIPAL ENGINEER, PE #19424

Date \_\_\_\_\_

**Bull Run Filtration Pipelines**

**RAW WATER PIPELINE**

**EROSION AND SED CONTROL**

FINAL STABILIZATION AND LANDSCAPE 1

GRID 2

SAP Project No  
**W02563**

1/4 Section  
3668

Sheet No  
RWP-CE-1005

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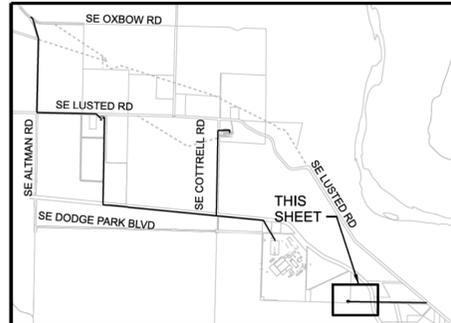
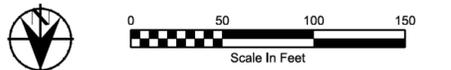
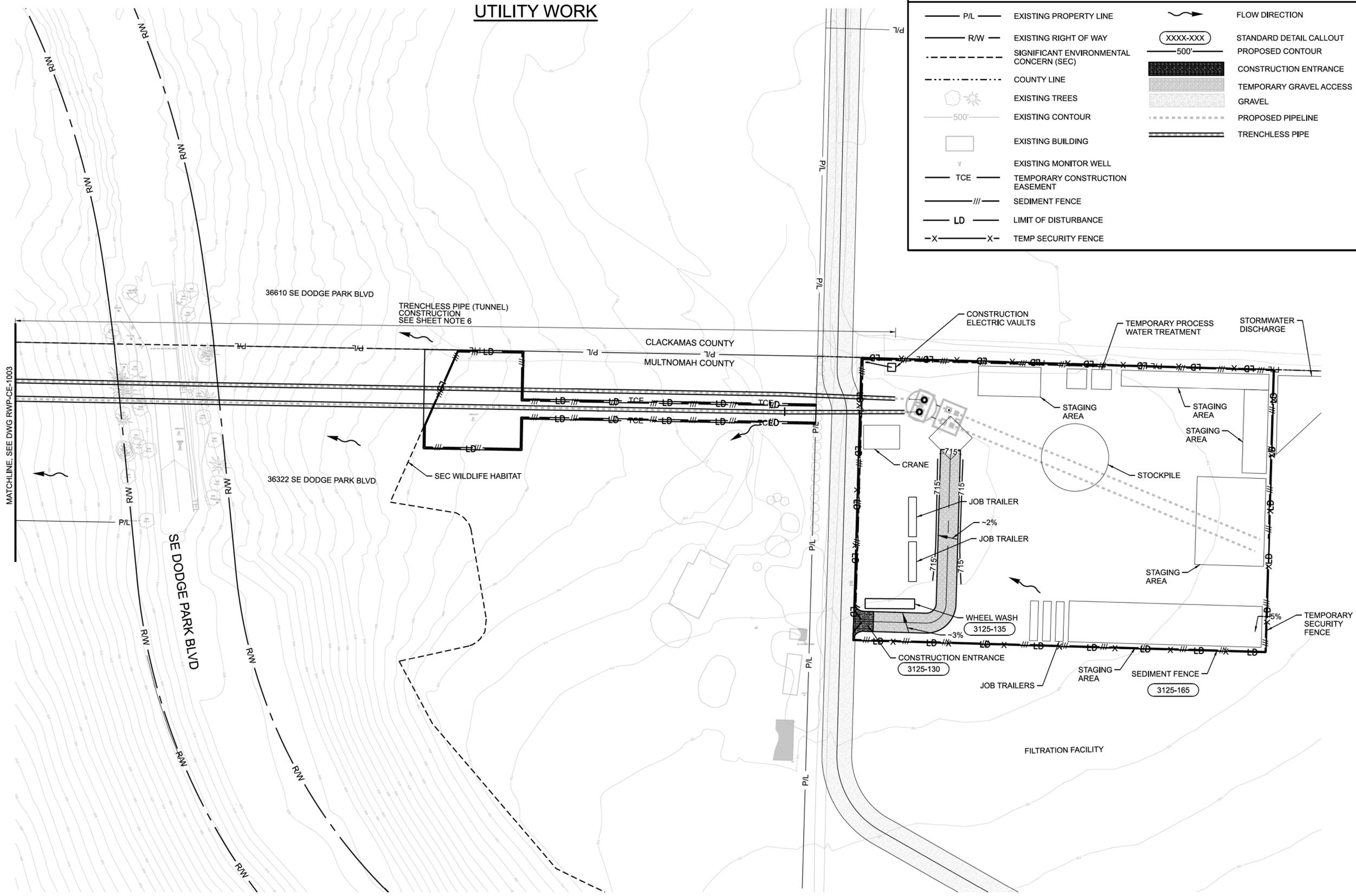
# UTILITY WORK

## LEGEND

	P/L	EXISTING PROPERTY LINE		FLOW DIRECTION
	R/W	EXISTING RIGHT OF WAY		STANDARD DETAIL CALLOUT
		SIGNIFICANT ENVIRONMENTAL CONCERN (SEC)		PROPOSED CONTOUR
		COUNTY LINE		CONSTRUCTION ENTRANCE
		EXISTING TREES		TEMPORARY GRAVEL ACCESS
		EXISTING CONTOUR		GRAVEL
		EXISTING BUILDING		PROPOSED PIPELINE
		EXISTING MONITOR WELL		TRENCHLESS PIPE
	TCE	TEMPORARY CONSTRUCTION EASEMENT		
		SEDIMENT FENCE		
	LD	LIMIT OF DISTURBANCE		
	-X	TEMP SECURITY FENCE		

## GENERAL SHEET NOTES

- REFER TO EROSION AND SEDIMENT CONTROLS NOTES, SHEET ESC-004.
- PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
- REMOVE AND REPLACE ROADWAY PAVEMENT WITHIN LIMITS OF DISTURBANCE TO MATCH EXISTING LINE AND GRADE.
- CONTRACTOR TO RE-GRADE DISTURBANCE AREA FROM PIPELINE CONSTRUCTION TO MATCH EXISTING GRADE, WHERE NOT OTHERWISE SHOWN ON DRAWINGS.
- ALL DISTURBANCE AREA NOT RECEIVING PAVEMENT OR GRAVEL, UNLESS OTHERWISE SHOWN, SHALL BE RESTORED WITH GRASS SEEDING, SLOPES STEEPER THAN 3:1 SHALL BE RESTORED WITH GRASS SEEDING AND PERMANENT EROSION CONTROL BLANKETS AS SPECIFIED AND PER DETAIL 3125-152, SHEET ESC-201.
- TWO EACH 9' DIAMETER 1240' LONG PARALLEL TUNNELS, WITH 9' OF SEPARATION BETWEEN TUNNELS, WILL BE EXCAVATED FROM A PORTAL SHAFT WITH INVERT 33' BELOW GROUND SURFACE AT THE START OF THE TUNNEL AND 232' BELOW GROUND SURFACE AT THE END OF THE TUNNEL. DEEP VERTICAL SHAFT. THE TUNNEL EXCAVATION OPERATION WILL BE CONTINUOUSLY SUPPORTED BY STEEL SETS AND LAGGING INSTALLED IMMEDIATELY FOLLOWING THE EXCAVATION SHIELD TO MINIMIZE CONVERGENCE.
- CONTOURS DISPLAYED AND LABELED EVERY 5FT.



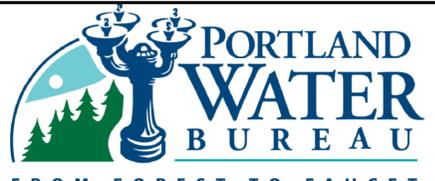
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27-APR-2023 00:43

No	Date	Description	Appd

Designed By	RG	Program Mgr	XXX
Drawn By	JL	Const Mgr	XXX
Checked By	RG	Const Supvr	XXX
Project Mgr		Date	04/27/2023

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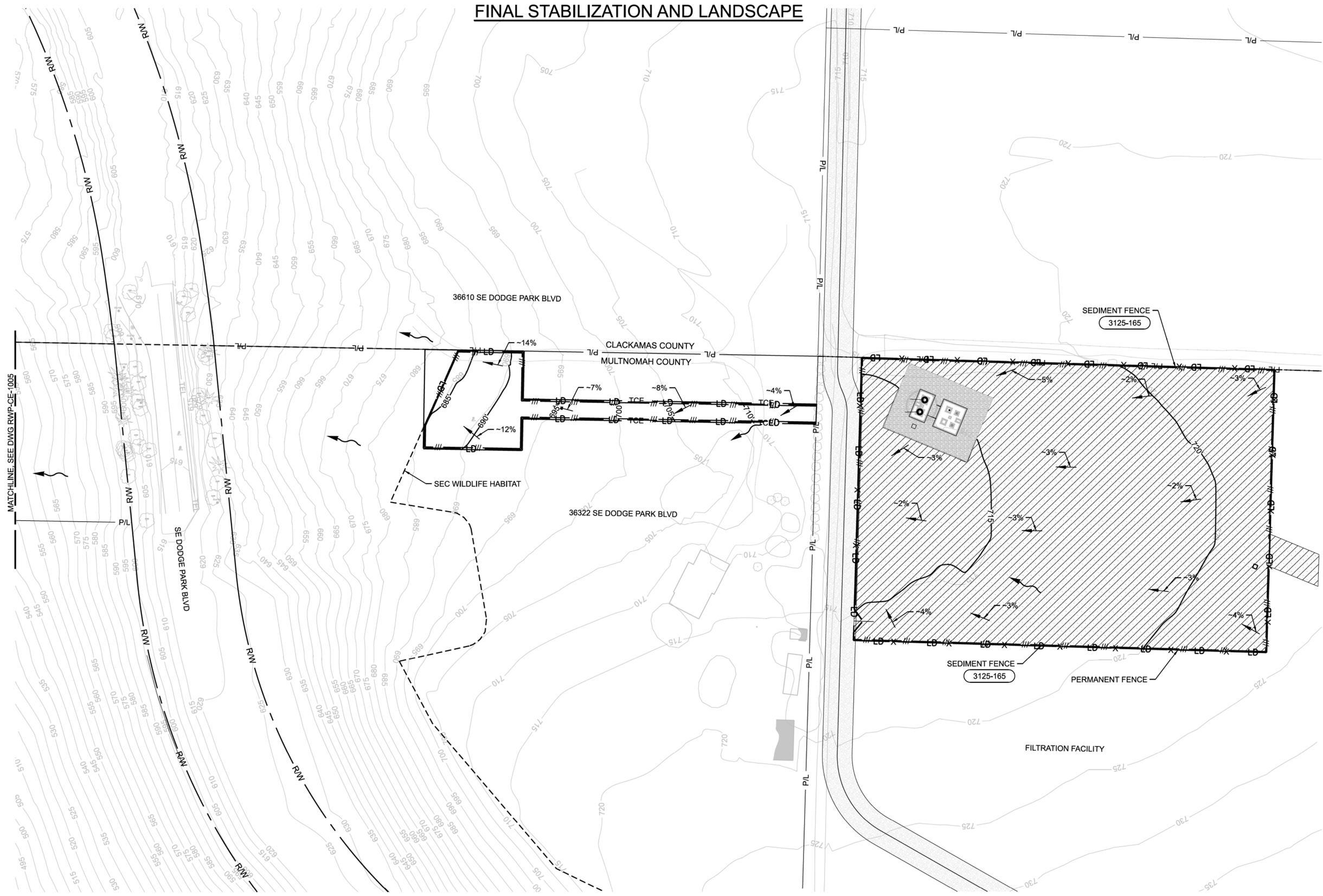
KENNETH M. ACKERMAN, PRINCIPAL ENGINEER, PE #19424



**Bull Run Filtration Pipelines**  
**RAW WATER PIPELINE**  
**EROSION AND SED CONTROL**  
 UTILITY WORK 2  
 GRID 3

SAP Project No	W02563
1/4 Section	3968
Sheet No	RWP-CE-1004
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# FINAL STABILIZATION AND LANDSCAPE

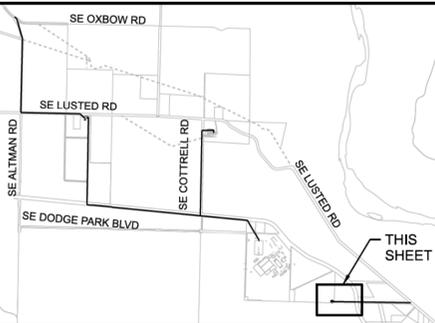


## GENERAL SHEET NOTES

- REFER TO EROSION AND SEDIMENT CONTROLS NOTES, SHEET ESC-004.
- PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
- REMOVE AND REPLACE ROADWAY PAVEMENT WITHIN LIMITS OF DISTURBANCE TO MATCH EXISTING LINE AND GRADE.
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- UPON PROJECT COMPLETION REMOVE GRAVEL SURFACING FROM ALL STAGING AREAS AND RESTORE TOPSOIL AND SEED.
- CONTOURS DISPLAYED AND LABELED EVERY 5FT.
- REMOVE SEDIMENT FENCE AND TREE PROTECTION FENCE UPON FINAL SITE STABILIZATION.
- PERMANENT SEEDING WILL BE COMPLETED BY FILTRATION FACILITY CONTRACTOR.
- PERMANENT SEED MIXES SHOWN ON ESC-002 AND ESC-004.

## LEGEND

- SIGNIFICANT ENVIRONMENTAL CONCERN (SEC)
- COUNTY LINE
- P/L EXISTING PROPERTY LINE
- R/W EXISTING RIGHT OF WAY
- EXISTING TREES
- EXISTING CONTOUR
- EXISTING BUILDING
- EXISTING MONITOR WELL
- SEDIMENT FENCE
- FLOW DIRECTION
- STANDARD DETAIL CALLOUT
- LIMIT OF DISTURBANCE
- TEMPORARY CONSTRUCTION EASEMENT
- TEMP SECURITY FENCE
- GRAVEL PAD
- GRAVEL
- TEMPORARY SEEDING
- PROPOSED CONTOUR



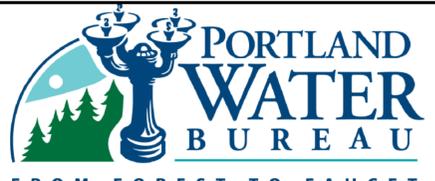
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27-APR-2023 00:41

No	Date	Description	Appd


Designed By	RG	Program Mgr	XXX
Drawn By	JL	Const Mgr	XXX
Checked By	RG	Const Supvr	XXX
Project Mgr		Date	04/27/2023

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



KENNETH M. ACKERMAN, PRINCIPAL ENGINEER, PE #19424



**Bull Run Filtration Pipelines**  
**RAW WATER PIPELINE**  
**EROSION AND SED CONTROL**  
 FINAL STABILIZATION AND LANDSCAPE 2  
 GRID 3

SAP Project No	W02563
1/4 Section	3968
Sheet No	RWP-CE-1006
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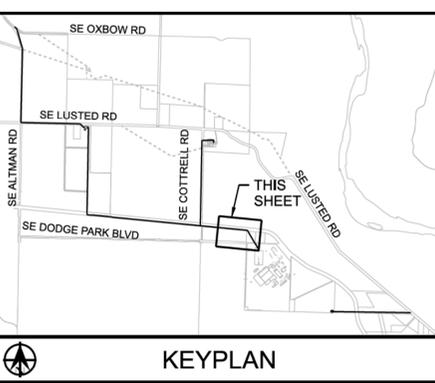
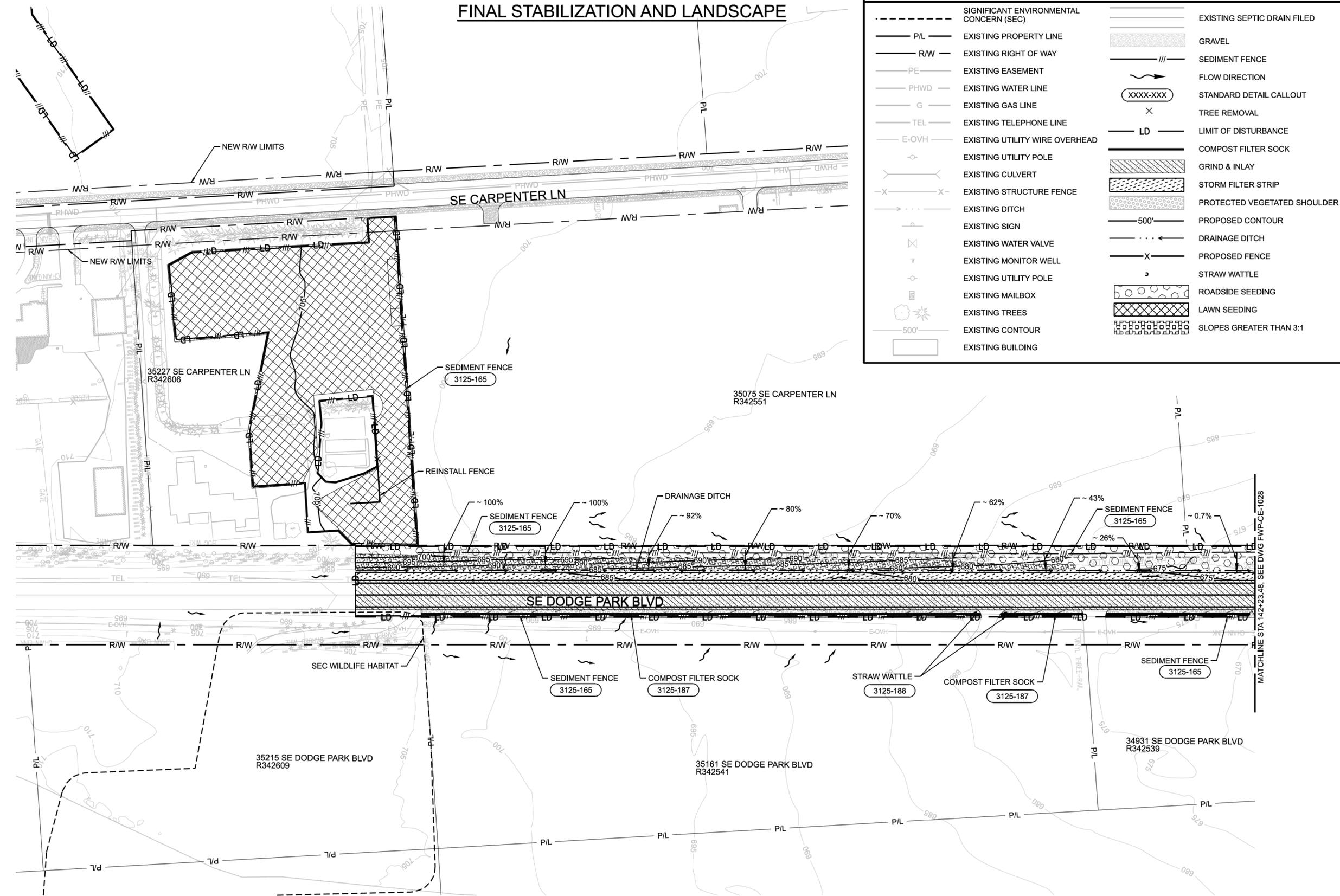
# FINAL STABILIZATION AND LANDSCAPE

## LEGEND

---	SIGNIFICANT ENVIRONMENTAL CONCERN (SEC)	---	EXISTING SEPTIC DRAIN FILED
---	EXISTING PROPERTY LINE	---	GRAVEL
---	EXISTING RIGHT OF WAY	---	SEDIMENT FENCE
---	EXISTING EASEMENT	---	FLOW DIRECTION
---	EXISTING WATER LINE	XXXX-XXX	STANDARD DETAIL CALLOUT
---	EXISTING GAS LINE	X	TREE REMOVAL
---	EXISTING TELEPHONE LINE	LD	LIMIT OF DISTURBANCE
---	EXISTING UTILITY WIRE OVERHEAD	---	COMPOST FILTER SOCK
○	EXISTING UTILITY POLE	---	GRIND & INLAY
---	EXISTING CULVERT	---	STORM FILTER STRIP
---	EXISTING STRUCTURE FENCE	---	PROTECTED VEGETATED SHOULDER
---	EXISTING DITCH	500'	PROPOSED CONTOUR
---	EXISTING SIGN	---	DRAINAGE DITCH
---	EXISTING WATER VALVE	X	PROPOSED FENCE
---	EXISTING MONITOR WELL	---	STRAW WATTLE
---	EXISTING UTILITY POLE	---	ROADSIDE SEEDING
---	EXISTING MAILBOX	---	LAWN SEEDING
---	EXISTING TREES	---	SLOPES GREATER THAN 3:1
---	EXISTING CONTOUR	---	
---	EXISTING BUILDING	---	

## GENERAL SHEET NOTES

- REFER TO EROSION AND SEDIMENT CONTROLS NOTES, SHEET ESC-004.
- PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
- REMOVE AND REPLACE ROADWAY PAVEMENT WITHIN LIMITS OF DISTURBANCE TO MATCH EXISTING LINE AND GRADE.
- CONTRACTOR TO RE-GRADE DISTURBANCE AREA FROM PIPELINE CONSTRUCTION TO MATCH EXISTING GRADE, WHERE NOT OTHERWISE SHOWN ON DRAWINGS.
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- UPON PROJECT COMPLETION REMOVE GRAVEL SURFACING FROM ALL STAGING AREAS AND RESTORE TOPSOIL AND SEED.
- CONTOURS DISPLAYED AND LABELED EVERY 5FT.
- REMOVE SEDIMENT FENCE AND TREE PROTECTION FENCE UPON FINAL SITE STABILIZATION.
- PERMANENT SEED MIXES SHOWN ON ESC-002 AND ESC-004.



18.W025663\_FWP-CE-1027.dgn

00:43  
27-APR-2023

No	Date	Description	Appd

Designed By	Program Mgr
Drawn By	Const Mgr
Checked By	Const Supr
Project Mgr	Date
	04/27/2023

**WARNING**

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



KENNETH M. ACKERMAN, PRINCIPAL ENGINEER, PE #19424

Date \_\_\_\_\_



**Bull Run Filtration Pipelines**

**FINISHED WATER PIPELINE**

**EROSION AND SED CONTROL**

FINAL STABILIZATION AND LANDSCAPE  
GRID 4

SAP Project No  
**W02563**

1/4 Section  
3664 / 3764

Sheet No  
FWP-CE-1027

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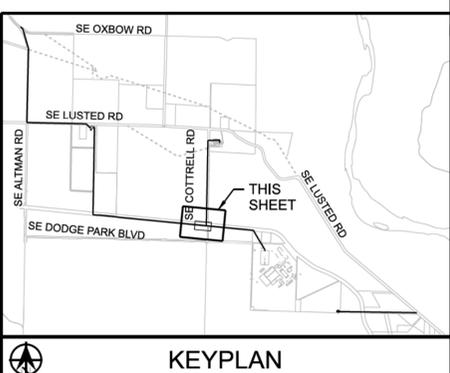
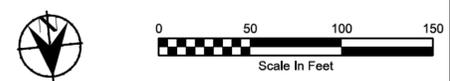
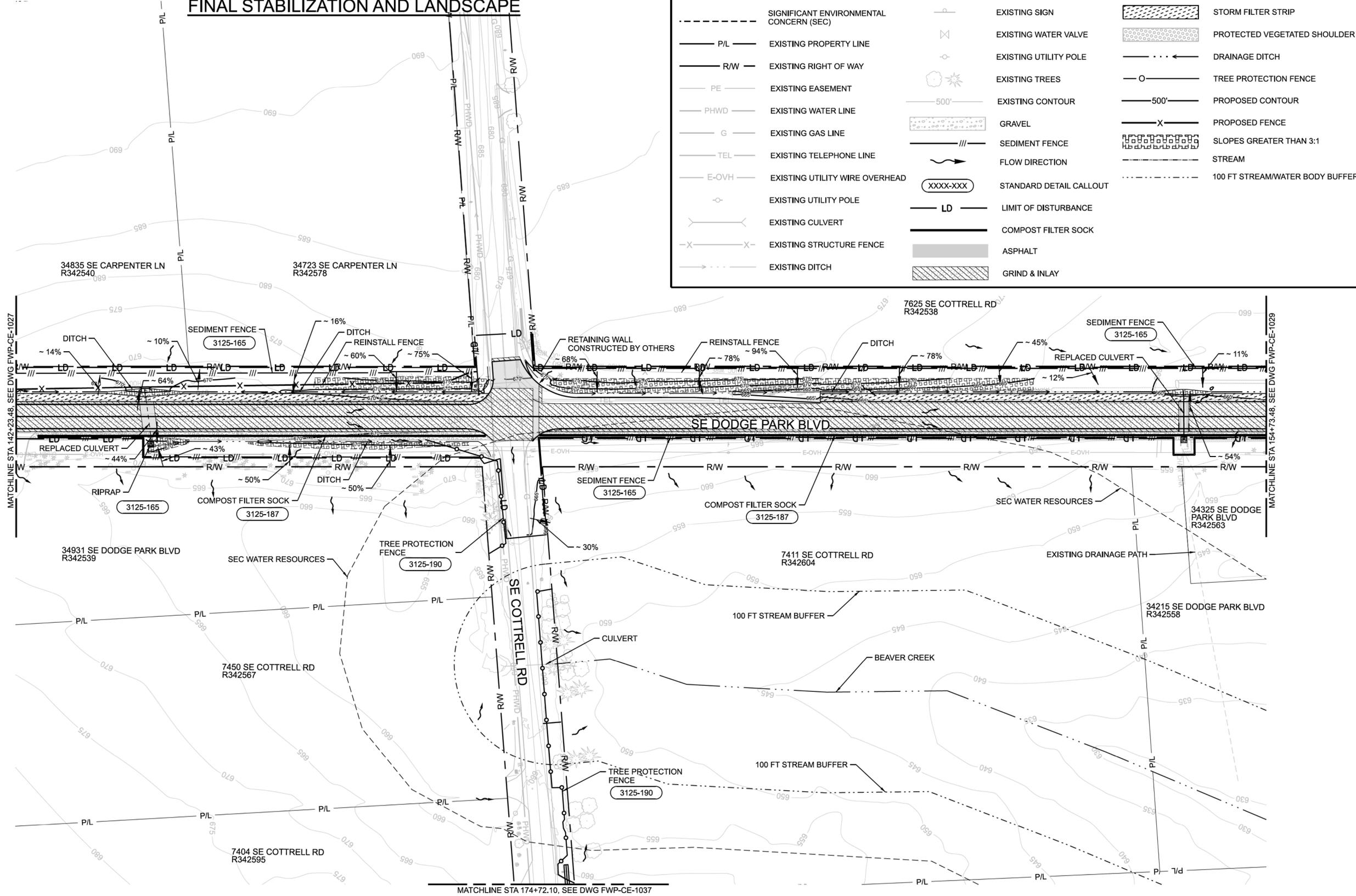
# FINAL STABILIZATION AND LANDSCAPE

## LEGEND

--- SEC ---	SIGNIFICANT ENVIRONMENTAL CONCERN (SEC)	⊕	EXISTING SIGN	[Hatched]	STORM FILTER STRIP
— P/L —	EXISTING PROPERTY LINE	⊗	EXISTING WATER VALVE	[Dotted]	PROTECTED VEGETATED SHOULDER
— R/W —	EXISTING RIGHT OF WAY	⊙	EXISTING UTILITY POLE	--->	DRAINAGE DITCH
— PE —	EXISTING EASEMENT	☼	EXISTING TREES	— O —	TREE PROTECTION FENCE
— PHWD —	EXISTING WATER LINE	500'	EXISTING CONTOUR	— X —	PROPOSED FENCE
— G —	EXISTING GAS LINE	[Gravel]	GRAVEL	[Steeper]	SLOPES GREATER THAN 3:1
— TEL —	EXISTING TELEPHONE LINE	[Sediment]	SEDIMENT FENCE	[Stream]	STREAM
— E-OVH —	EXISTING UTILITY WIRE OVERHEAD	[Flow]	FLOW DIRECTION	---	100 FT STREAM/WATER BODY BUFFER
⊙	EXISTING UTILITY POLE	(XXXX-XXX)	STANDARD DETAIL CALLOUT		
— X — X —	EXISTING STRUCTURE FENCE	— LD —	LIMIT OF DISTURBANCE		
—>---	EXISTING DITCH	[Sediment]	COMPOST FILTER SOCK		
		[Asphalt]	ASPHALT		
		[Grind]	GRIND & INLAY		

## GENERAL SHEET NOTES

- REFER TO EROSION AND SEDIMENT CONTROLS NOTES, SHEET ESC-004.
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- CONTOURS DISPLAYED AND LABELED EVERY 5 FT.
- REMOVE SEDIMENT FENCE AND TREE PROTECTION FENCE UPON FINAL SITE STABILIZATION.
- PERMANENT SEED MIXES SHOWN ON ESC-002 AND ESC-004.



21.W02563\_FWP-CE-1028.dgn

00:44

No	Date	Description	Appd

Designed By	Program Mgr
Drawn By	Const Mgr
Checked By	Const Supvr
Project Mgr	Date
	04/27/2023

**WARNING**

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

**PORTLAND WATER BUREAU**

FROM FOREST TO FAUCET

KENNETH M. ACKERMAN, PRINCIPAL ENGINEER, PE #19424

Date \_\_\_\_\_

Date \_\_\_\_\_

**Bull Run Filtration Pipelines**

**FINISHED WATER PIPELINE**

**EROSION AND SED CONTROL**

FINAL STABILIZATION AND LANDSCAPE

GRID 5

SAP Project No  
**W02563**

1/4 Section  
3664 / 3764

Sheet No  
FWP-CE-1028

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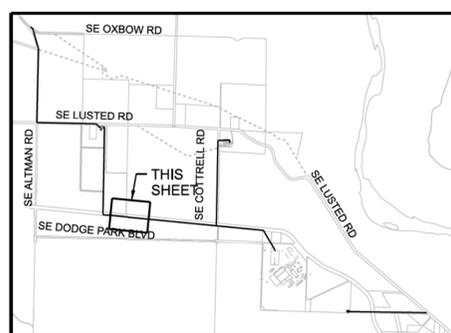
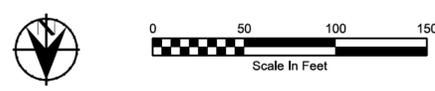
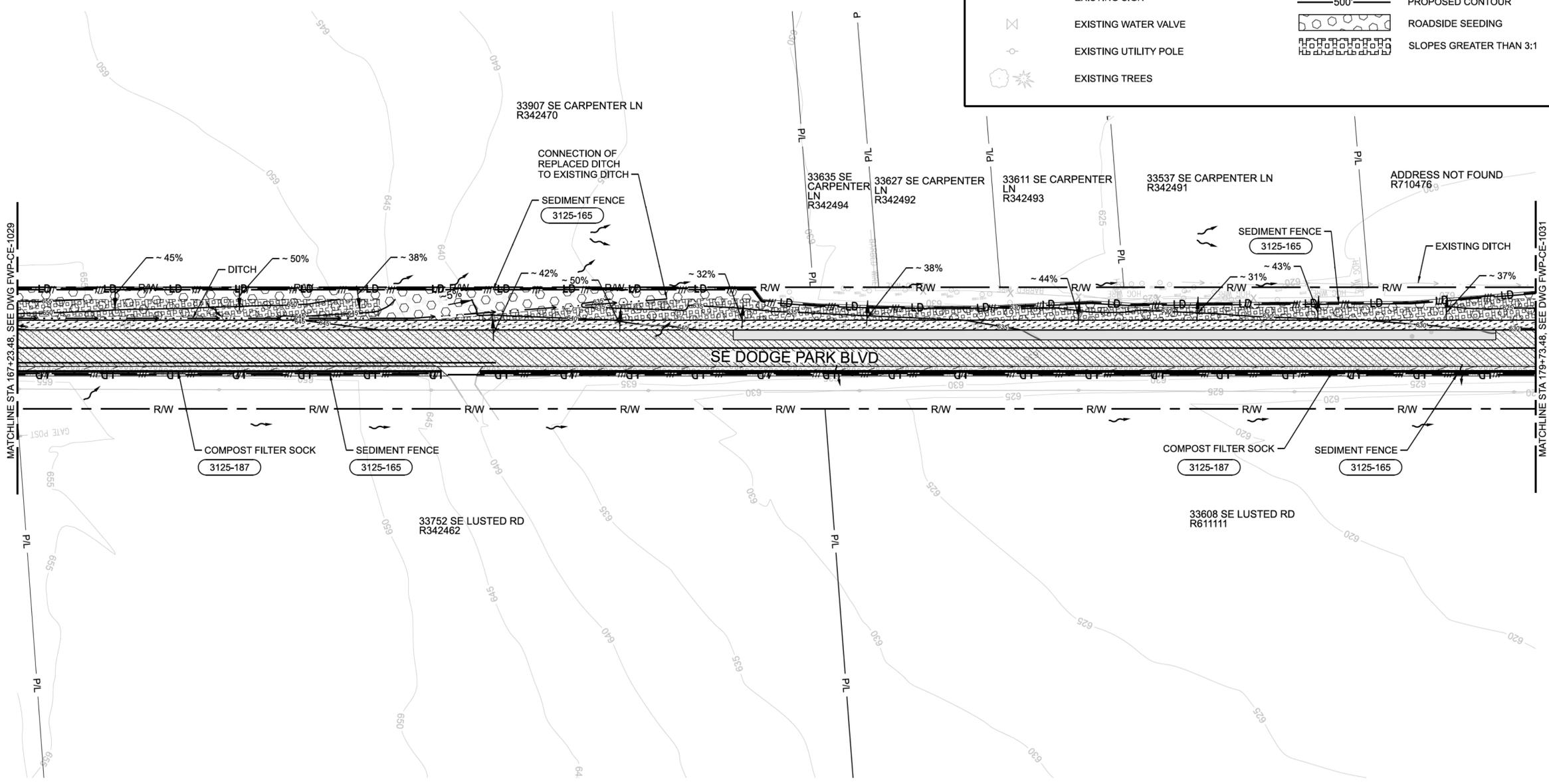


# FINAL STABILIZATION AND LANDSCAPE

## LEGEND

-----	SIGNIFICANT ENVIRONMENTAL CONCERN (SEC)	500'	EXISTING CONTOUR
— P/L —	EXISTING PROPERTY LINE	∅	EXISTING MONITOR WELL
— R/W —	EXISTING RIGHT OF WAY	///	SEDIMENT FENCE
— TEL —	EXISTING TELEPHONE LINE	~>	FLOW DIRECTION
— E-OVH —	EXISTING UTILITY WIRE OVERHEAD	(XXXX-XXX)	STANDARD DETAIL CALLOUT
○	EXISTING UTILITY POLE	LD	LIMIT OF DISTURBANCE
— X — X —	EXISTING CULVERT	[Hatched]	COMPOST FILTER SOCK
— X — X —	EXISTING STRUCTURE FENCE	[Diagonal]	GRIND & INLAY
— · · · —	EXISTING DITCH	[Dotted]	ASPHALT
⊕	EXISTING SIGN	[Cross-hatched]	STORM FILTER STRIP
⊗	EXISTING WATER VALVE	[Stippled]	PROTECTED VEGETATED SHOULDER
⊙	EXISTING UTILITY POLE	— · · · —	PROPOSED DRAINAGE DITCH
☀	EXISTING TREES	500'	PROPOSED CONTOUR
		[Pattern]	ROADSIDE SEEDING
		[Pattern]	SLOPES GREATER THAN 3:1

- ## GENERAL SHEET NOTES
- REFER TO EROSION AND SEDIMENT CONTROLS NOTES, SHEET ESC-004.
  - PROTECT ALL EXISTING STRUCTURES AND TREES NOT SHOWN FOR DEMOLITION.
  - REMOVE AND REPLACE ROADWAY PAVEMENT WITHIN LIMITS OF DISTURBANCE TO MATCH EXISTING LINE AND GRADE.
  - CONTRACTOR TO RE-GRADE DISTURBANCE AREA FROM PIPELINE CONSTRUCTION TO MATCH EXISTING GRADE, WHERE NOT OTHERWISE SHOWN ON DRAWINGS.
  - ALL DISTURBANCE AREA NOT RECEIVING PAVEMENT OR GRAVEL, UNLESS OTHERWISE SHOWN, SHALL BE RESTORED WITH GRASS SEEDING, SLOPES STEEPER THAN 3:1 SHALL BE RESTORED WITH GRASS SEEDING AND PERMANENT EROSION CONTROL BLANKETS AS SPECIFIED AND PER DETAIL 3125-152, SHEET ESC-201.
  - UPON PROJECT COMPLETION REMOVE GRAVEL SURFACING FROM ALL STAGING AREAS AND RESTORE TOPSOIL AND SEED.
  - CONTOURS DISPLAYED AND LABELED EVERY 5FT.
  - REMOVE SEDIMENT FENCE AND TREE PROTECTION FENCE UPON FINAL SITE STABILIZATION.
  - PERMANENT SEED MIXES SHOWN ON ESC-002 AND ESC-004.



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00:45

No	Date	Description	Appd
Revision			
Survey			

Designed By	Program Mgr		
Drawn By	Const Mgr		
Checked By	Const Supvr		
Project Mgr	Date	04/27/2023	

**WARNING**

0 1"

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

PORTLAND WATER BUREAU

FROM FOREST TO FAUCET

KENNETH M. ACKERMAN, PRINCIPAL ENGINEER, PE #19424

Date

CITY OF PORTLAND OREGON 1851

Bull Run Filtration Pipelines

**FINISHED WATER PIPELINE EROSION AND SED CONTROL**

FINAL STABILIZATION AND LANDSCAPE GRID 7

SAP Project No  
**W02563**

1/4 Section  
3664 / 3764

Sheet No  
FWP-CE-1030

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