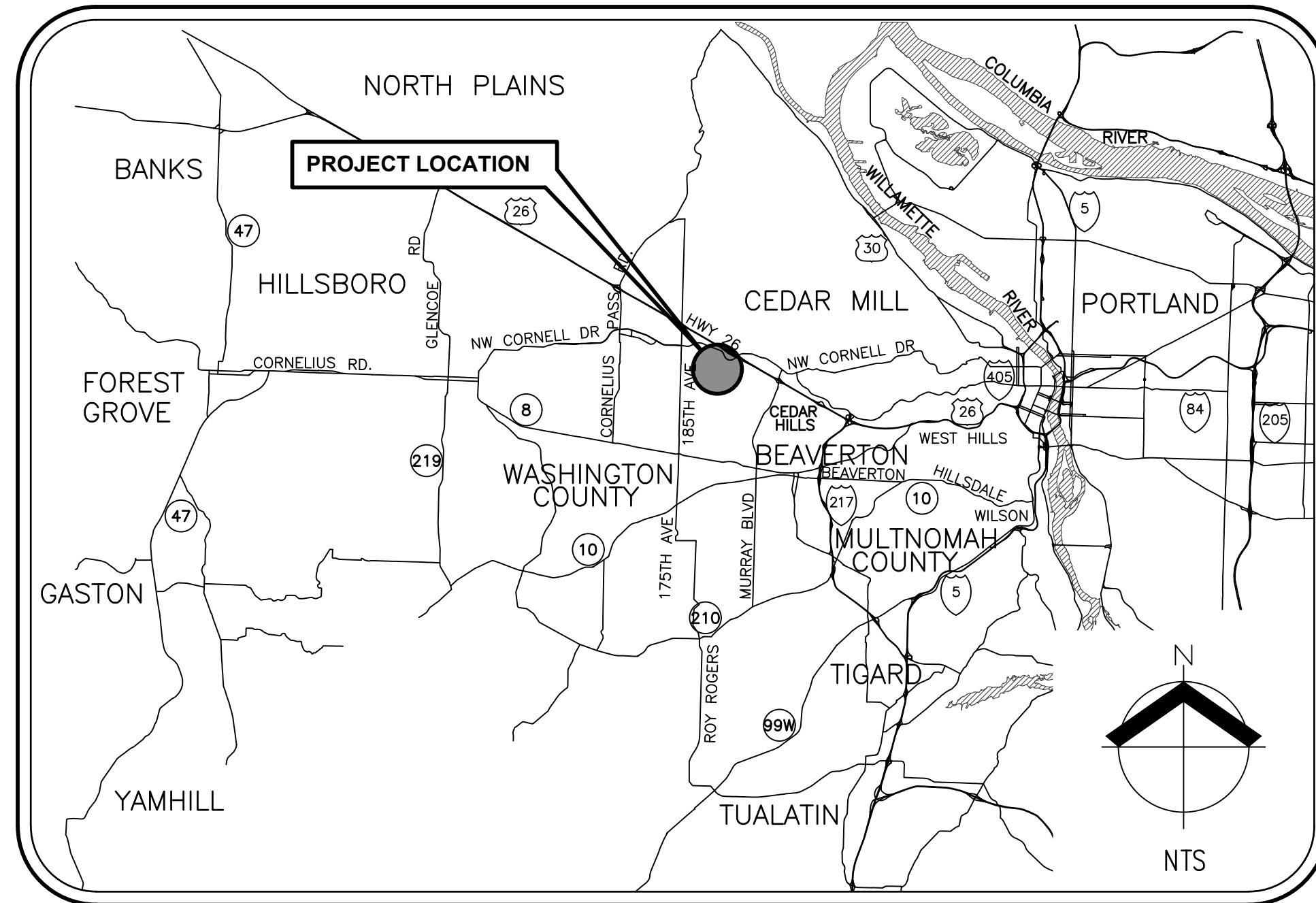
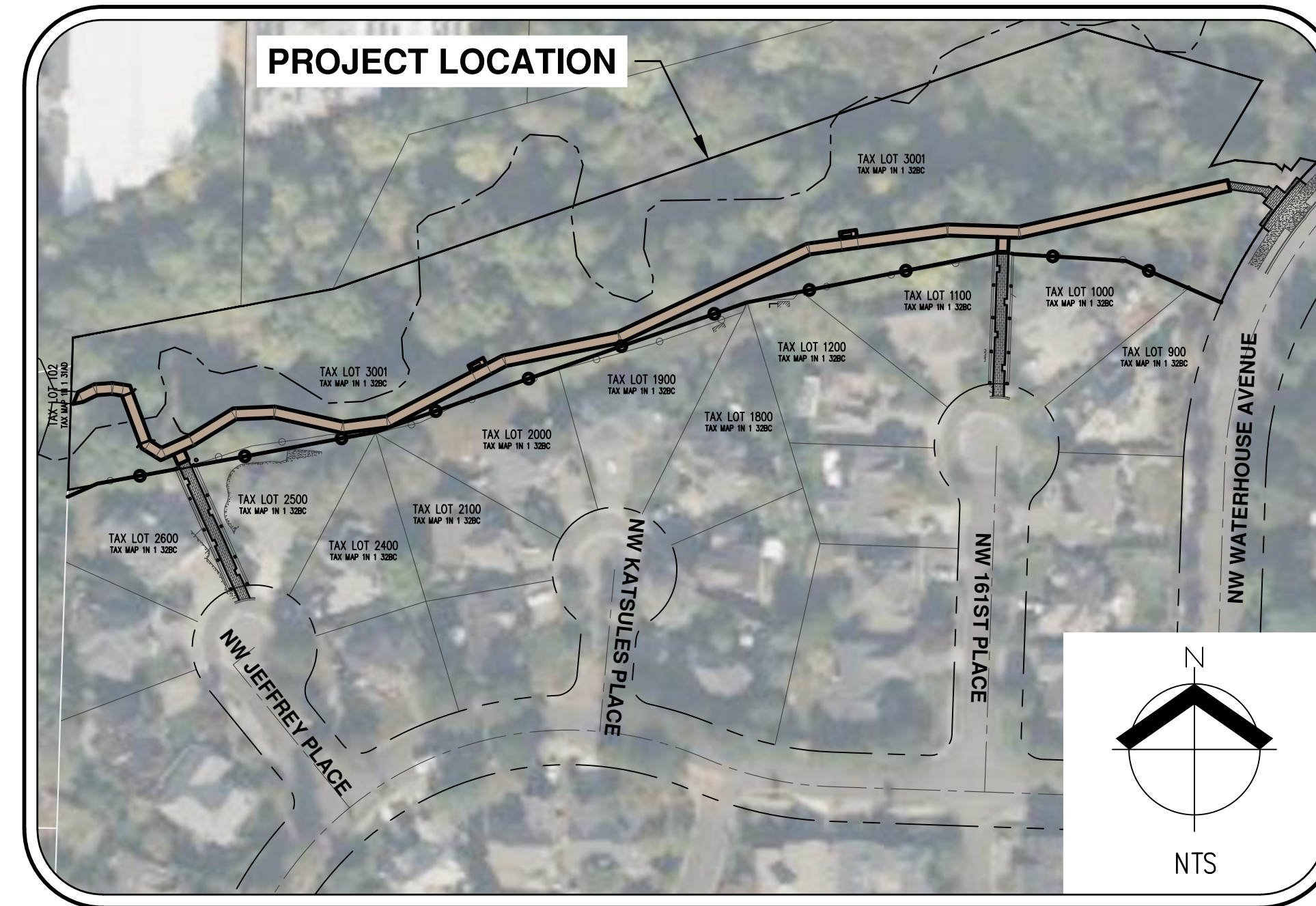


# WILLOW CREEK BOARDWALK (EAST)

## PRELIMINARY SITE DEVELOPMENT PLANS



**VICINITY MAP**



**SITE MAP**

**SHEET INDEX**

- P01 PRELIMINARY COVER SHEET
- P02 EXISTING CONDITIONS PLAN
- P03 EXISTING CONDITIONS PLAN
- P04 EXISTING CONDITIONS PLAN AERIAL
- P05 EXISTING CONDITIONS PLAN AERIAL
- P06 PRELIMINARY DEMOLITION PLAN
- P07 PRELIMINARY DEMOLITION PLAN
- P08 PRELIMINARY GRADING, PAVING, AND ESP PLAN
- P09 PRELIMINARY GRADING, PAVING, AND ESP PLAN
- P10 BOARDWALK ALIGNMENT PLAN AND PROFILE
- P11 BOARDWALK ALIGNMENT PLAN AND PROFILE
- P12 PRELIMINARY LANDSCAPE PLAN
- P13 PRELIMINARY LANDSCAPE PLAN
- P14 PRELIMINARY LANDSCAPE PLANTING SCHEDULE, NOTES AND DETAILS
- P15 PRELIMINARY AERIAL PHOTO AND SITE MAP
- P16 PRELIMINARY NEIGHBORHOOD CIRCULATION PLAN

**PROPERTY DESCRIPTION:**

TAX LOT 3001, TAX MAP SW ¼ NW ¼ SECTION 32 T1N R1W.

**PROPERTY LOCATION:**

THE WILLOW CREEK BOARDWALK IS LOCATED ALONG THE THPRD WILLOW CREEK GREENWAY BETWEEN WATERHOUSE SOCCER FIELD AND NW WATERHOUSE AVE.

**EXISTING LAND USE:**

THE PROJECT SITE (THE WILLOW CREEK GREENWAY) IS A NATURAL AREA LOCATED IN THE FIVE OAKS/TRIPLE CREEK NEIGHBORHOOD. THE SITE IS WITHIN A SIGNIFICANT TREE GROVE AND INCLUDES AN EXISTING BOARDWALK, FLOODPLAIN, CREEK, AND VEGETATED CORRIDOR.

IT IS ZONED RESIDENTIAL MIXED B (RMB) AND DESIGNATED LOWER DENSITY NEIGHBORHOOD (LDN).

**PROJECT PURPOSE:**

IMPROVEMENTS TO THE WILLOW CREEK BOARDWALK INCLUDE REMOVAL OF THE EXISTING BOARDWALK AND INSTALLING A NEW UNIFORM 8' WIDE BOARDWALK WITH ADA ACCESSIBILITY AND COMPLIANCE.

**VERTICAL DATUM:**

ELEVATIONS ARE DERIVED FROM THE TRIMBLE VRS NOW NETWORK, WHICH IS BASED ON THE NAVD 88 VERTICAL DATUM.

**HORIZONTAL DATUM:**

ELEVATIONS ARE DERIVED FROM THE TRIMBLE VRS NOW NETWORK, WHICH IS BASED ON THE NAVD 88 VERTICAL DATUM.

**OWNER**

TUALATIN HILLS PARK & REC. DISTRICT  
 CONTACT: RENE BRUCKER  
 6220 SW 112TH AVENUE, SUITE 100  
 BEAVERTON, OR 97008  
 PH: (503) 614-4012

**BOARDWALK DESIGNER**

WESTERN WOOD STRUCTURES, INC  
 CONTACT: JAMIE AGIDIUS  
 20675 SW 105TH AVE / PO BOX 130  
 TUALATIN, OR 97062  
 PH: (503) 692-6900  
 FAX: (360) 692-6434

**ENGINEERING/  
SURVEYING FIRM**

AKS ENGINEERING & FORESTRY, LLC.  
 CONTACT: JOHN CHRISTIANSEN, PE, CWRE  
 12965 SW HERMAN ROAD, SUITE 100  
 TUALATIN, OR 97062  
 PH: (503) 563-6151  
 FAX: (503) 563-6152

**GEOTECHNICAL CONSULTANT**

CENTRAL GEOTECHNICAL SERVICES  
 CONTACT: KREY YOUNGER, PE, GE  
 10240 SW NIMBUS AVE., SUITE L6  
 PORTLAND, OR 97223  
 PH: (503) 616-9419  
 FAX: (360) 693-8426

**UTILITY CONTACTS**

**POWER**

PORTLAND GENERAL ELECTRIC  
 121 SW SALMON STREET  
 PORTLAND, OR 97204  
 PH: (503) 464-7777  
 OR (800) 544-1795

**GAS**

NORTHWEST NATURAL GAS  
 20285 SW CIPOLE RD  
 SHERWOOD, OR 97140  
 PH: (503) 220-2415

**WATER**

TUALATIN VALLEY WATER DISTRICT  
 1850 SW 170TH AVE  
 BEAVERTON, OR 97003  
 PH: (971) 470-5367

**STORM/SANITARY SEWER**

CLEAN WATER SERVICES  
 2025 SW MERLO CT  
 BEAVERTON, OR 97003  
 PH: (503) 803-1106

**COMMUNICATIONS**

ZIPLY FIBER  
 135 LAKE STREET S. SUITE 155  
 KIRKLAND, WA 98033  
 PH: (866) 947-5995

COMCAST  
 7219 SW HAZEL FERN RD  
 TIGARD, OR 97224  
 PH: (800) 934-6489  
 OR (866) 873-9735

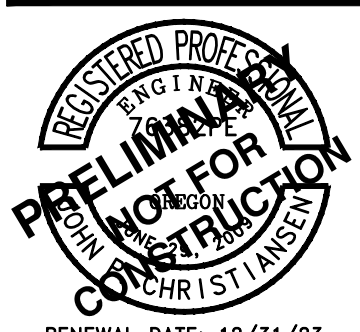


Know what's below.  
Call before you dig.

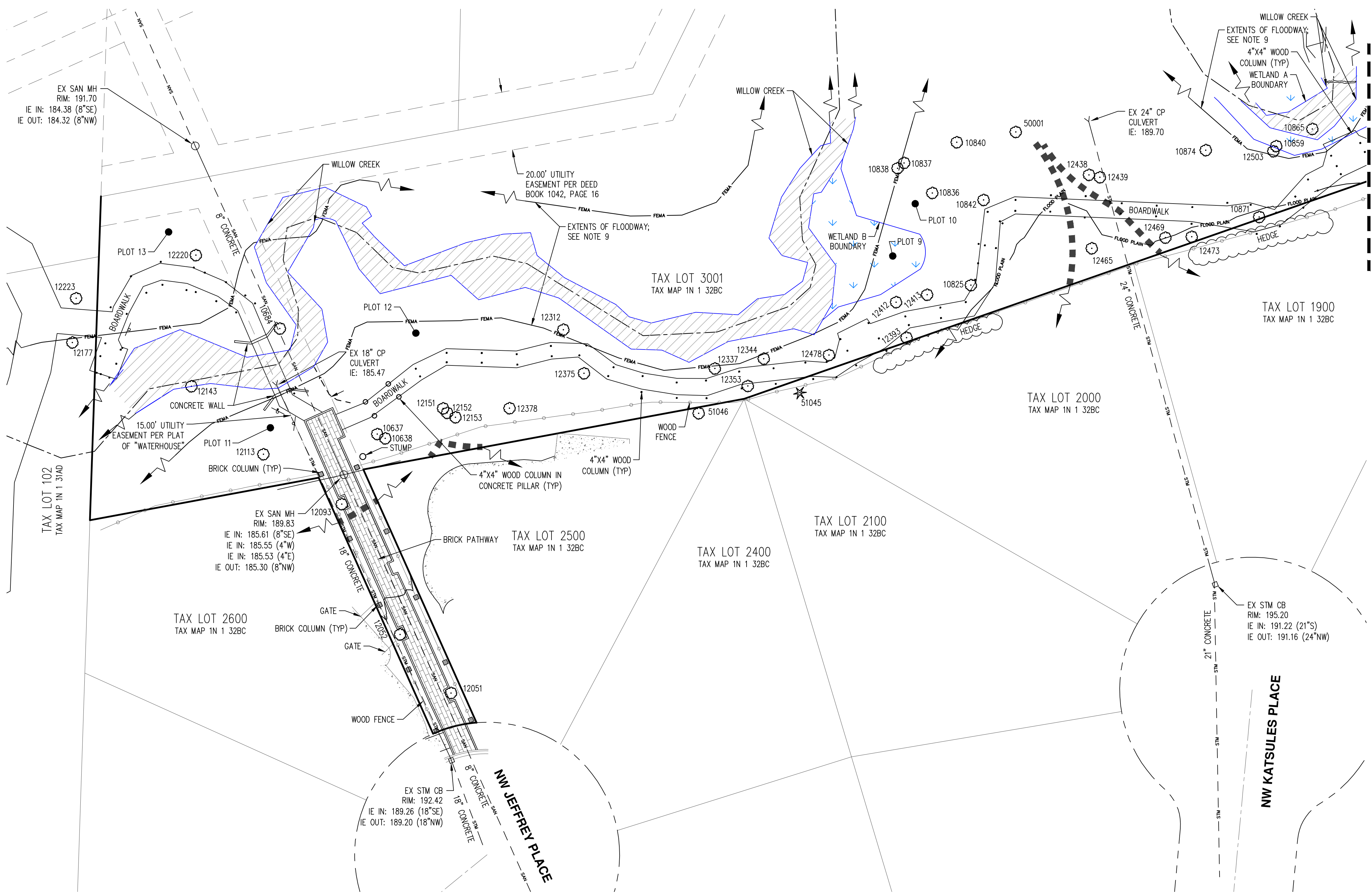
**ATTENTION EXCAVATORS:**

OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THESE RULES FROM THE CENTER BY CALLING 503-232-1987. IF YOU HAVE ANY QUESTIONS ABOUT THE RULES, YOU MAY CONTACT THE CENTER. YOU MUST NOTIFY THE CENTER AT LEAST TWO BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION. CALL 1-800-332-2344.

**PRELIMINARY COVER SHEET**  
**WILLOW CREEK BOARDWALK (EAST)**  
**TUALATIN HILLS PARK & REC. DISTRICT**  
**BEAVERTON, OREGON**



JOB NUMBER:	8015-01
DATE:	03/21/2024
DESIGNED BY:	SRR
DRAWN BY:	BGZ
CHECKED BY:	SRR



**NOTES:**

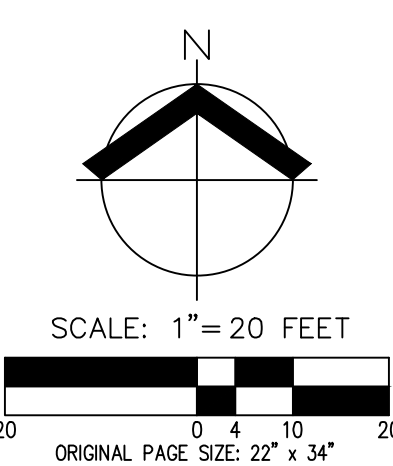
- UTILITIES SHOWN ARE BASED ON UNDERGROUND UTILITY LOCATE MARKINGS AS PROVIDED BY OTHERS, PROVIDED PER UTILITY LOCATE TICKET NUMBERS 23106510, 23105411, 23106512, 23106513, 23106514, 23106515, 23106516, 23106517, 23106518, 23137723, 23154156, 23154167 AND 23154168. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND LOCATES REPRESENT THE ONLY UTILITIES IN THE AREA. CONTRACTORS ARE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BEGINNING CONSTRUCTION.
- FIELD WORK WAS CONDUCTED IN FEBRUARY, 2020 AND APRIL 26 - 28, 2023.
- VERTICAL DATUM: ELEVATIONS ARE DERIVED FROM THE TRIMBLE VRS NOW NETWORK, WHICH IS BASED ON THE NAVD 88 VERTICAL DATUM.
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- THIS IS NOT A PROPERTY BOUNDARY SURVEY TO BE RECORDED WITH THE COUNTY SURVEYOR. BOUNDARIES MAY BE PRELIMINARY AND SHOULD BE CONFIRMED WITH THE STAMPING SURVEYOR PRIOR TO RELYING ON FOR DETAILED DESIGN OR CONSTRUCTION.
- CONTOUR INTERVAL IS 1 FOOT.
- FOR TREE INFORMATION SEE TREE REMOVAL AND PRESERVATION PLANS.
- WETLAND BOUNDARIES SHOWN WERE DELINEATED BY AKS ENGINEERING & FORESTRY, LLC. ON JULY 15-17 & 30, 2020 AND WERE PROFESSIONALLY SURVEYED BY AKS ON JULY 31, 2020.
- FLOODWAY IS A GRAPHICAL OVERLAY PER FLOOD INSURANCE RATE MAP NUMBER 41067C0363F AND 41067C0364F, WITH EFFECTIVE DATES OF OCTOBER 19, 2018. ZONE AE BOUNDARY IS DRAWN PER BASE FLOOD ELEVATIONS REPORTED IN THE FLOOD INSURANCE STUDY NUMBER 41067C0003B, DATED OCTOBER 19, 2018.
- AERIAL IMAGERY SHOWN WAS COLLECTED VIA DRONE FLIGHT PERFORMED APRIL 5, 2020.

MATCH LINE - SEE SHEET 02

EXISTING		EXISTING	
DECIDUOUS TREE		STORM DRAIN CLEAN OUT	
CONIFEROUS TREE		STORM DRAIN CATCH BASIN	
FIRE HYDRANT		STORM DRAIN AREA DRAIN	
WATER BLOWOFF		STORM DRAIN MANHOLE	
WATER METER		GAS METER	
WATER VALVE		GAS VALVE	
DOUBLE CHECK VALVE		GUY WIRE ANCHOR	
AIR RELEASE VALVE		UTILITY POLE	
SANITARY SEWER CLEAN OUT		POWER VAULT	
SANITARY SEWER MANHOLE		POWER JUNCTION BOX	
SIGN		POWER PEDESTAL	
STREET LIGHT		COMMUNICATIONS VAULT	
MAILBOX		COMMUNICATIONS JUNCTION BOX	
		COMMUNICATIONS RISER	

EXISTING	
RIGHT-OF-WAY LINE	
BOUNDARY LINE	
PROPERTY LINE	
CENTERLINE	
DITCH	
CURB	
EDGE OF PAVEMENT	
EASEMENT	
FENCE LINE	
GRAVEL EDGE	
POWER LINE	
OVERHEAD WIRE	
COMMUNICATIONS LINE	
FIBER OPTIC LINE	
GAS LINE	
STORM DRAIN LINE	
SANITARY SEWER LINE	
WATER LINE	
RECLAIMED WATER LINE	
CWS VEGETATED CORRIDOR	

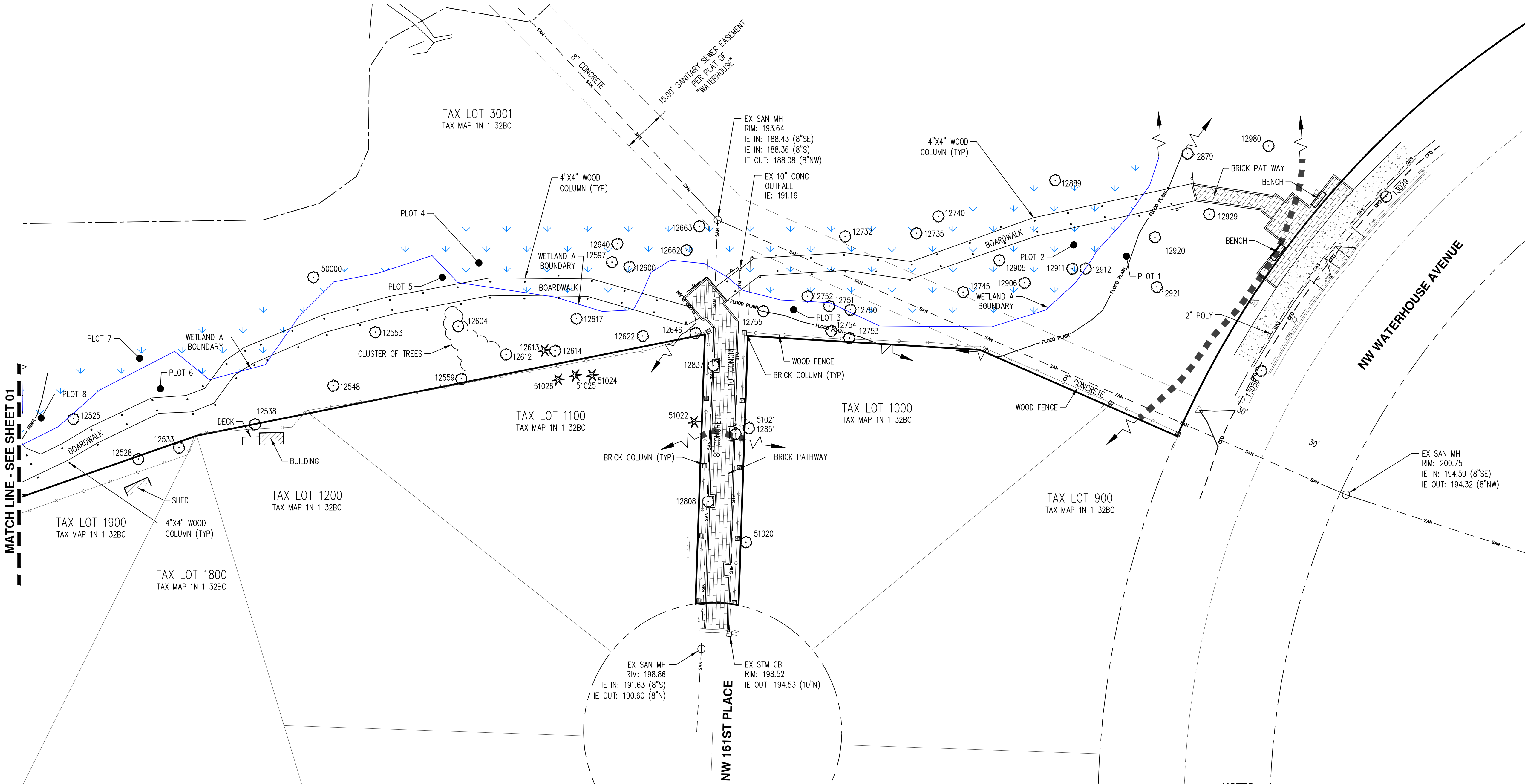


**EXISTING CONDITIONS PLAN  
 WILLOW CREEK BOARDWALK (EAST)  
 TUALATIN HILLS PARK & REC. DISTRICT  
 BEAVERTON, OREGON**

REGISTERED PROFESSIONAL LAND SURVEYOR  
 B. HUFF  
 OREGON  
 MARCH 14, 2017  
 BENJAMIN R HUFF  
 84738PLS  
 RENEWS: 6/30/25

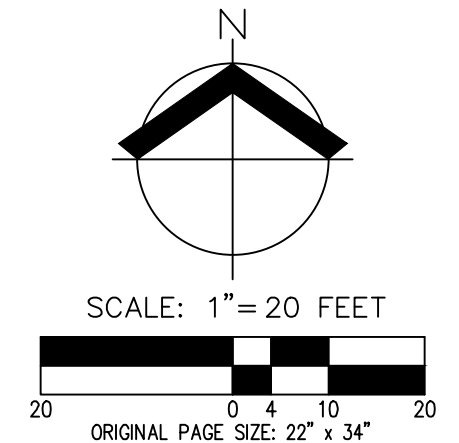
JOB NUMBER: 8015-01  
 DATE: 12/04/2023  
 DESIGNED BY: ---  
 DRAWN BY: CC/NJS  
 CHECKED BY: RB

**EXISTING CONDITIONS PLAN  
 WILLOW CREEK BOARDWALK (EAST)  
 TUALATIN HILLS PARK & REC. DISTRICT  
 BEAVERTON, OREGON**



MATCH LINE - SEE SHEET 01

EXISTING		EXISTING		LEGEND		EXISTING	
DECIDUOUS TREE		STORM DRAIN CLEAN OUT		RIGHT-OF-WAY LINE			
CONIFEROUS TREE		STORM DRAIN CATCH BASIN		BOUNDARY LINE			
FIRE HYDRANT		STORM DRAIN AREA DRAIN		PROPERTY LINE			
WATER BLOWOFF		STORM DRAIN MANHOLE		CENTERLINE			
WATER METER		GAS METER		DITCH			
WATER VALVE		GAS VALVE		CURB			
DOUBLE CHECK VALVE		GUY WIRE ANCHOR		EDGE OF PAVEMENT			
AIR RELEASE VALVE		UTILITY POLE		EASEMENT			
SANITARY SEWER CLEAN OUT		POWER VAULT		FENCE LINE			
SANITARY SEWER MANHOLE		POWER JUNCTION BOX		GRAVEL EDGE			
SIGN		POWER PEDESTAL		POWER LINE			
STREET LIGHT		COMMUNICATIONS VAULT		OVERHEAD WIRE			
MAILBOX		COMMUNICATIONS JUNCTION BOX		COMMUNICATIONS LINE			
		COMMUNICATIONS RISER		FIBER OPTIC LINE			
				GAS LINE			
				STORM DRAIN LINE			
				SANITARY SEWER LINE			
				WATER LINE			
				RECLAIMED WATER LINE			
				CWS VEGETATED CORRIDOR			



- NOTES:**
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  - AERIAL IMAGERY SHOWN WAS COLLECTED VIA DRONE FLIGHT PERFORMED APRIL 5, 2020.

REGISTERED PROFESSIONAL LAND SURVEYOR  
 FOR REVIEW ONLY  
 B. HUFF  
 OREGON  
 MARCH 14, 2017  
 BENJAMIN R HUFF  
 84738PLS  
 RENEWS: 6/30/25

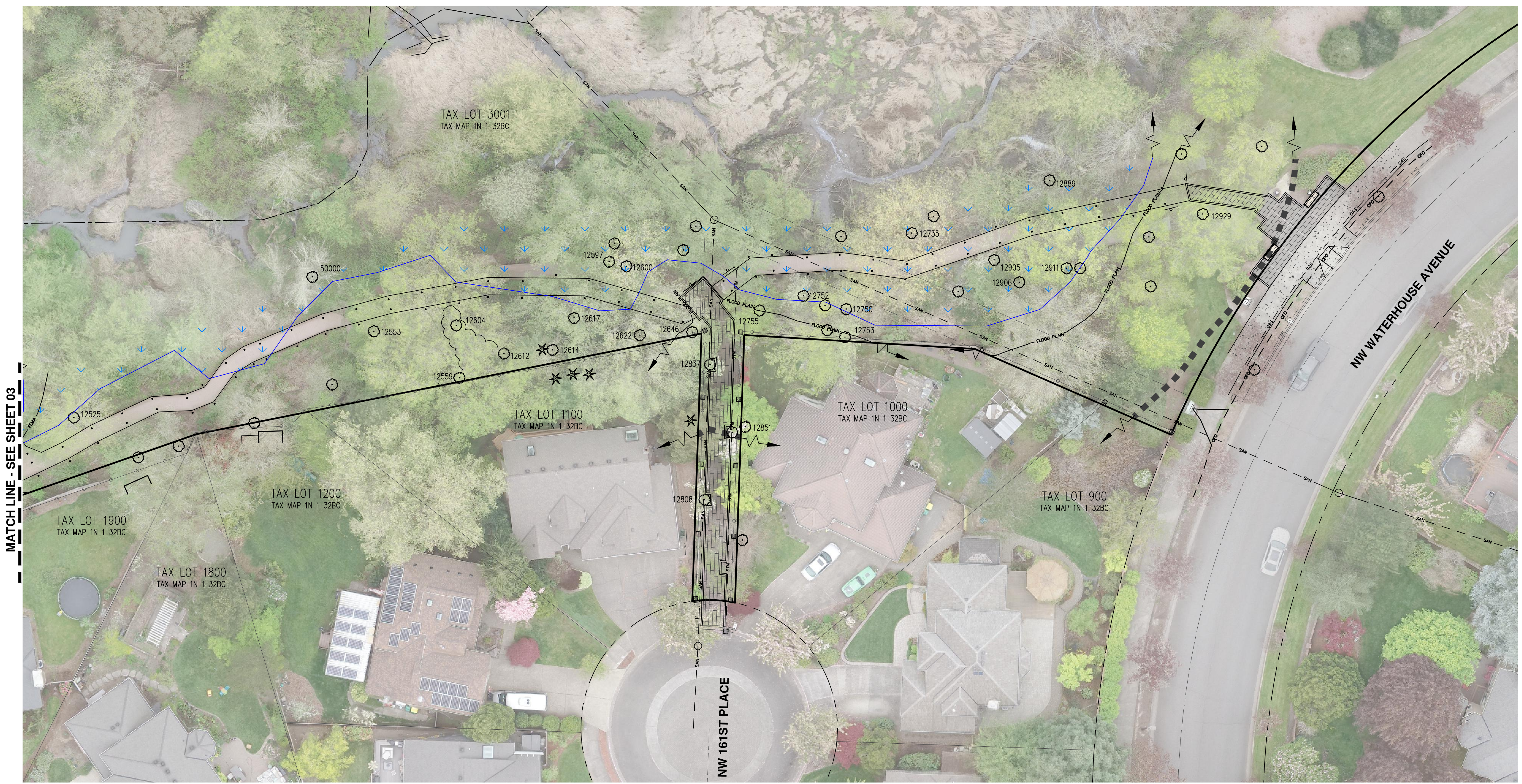
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 DRAWN BY: CC/NJS  
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**AERIAL MAP**  
**WILLOW CREEK BOARDWALK (EAST)**  
**TUALATIN HILLS PARK & REC. DISTRICT**  
**BEAVERTON, OREGON**

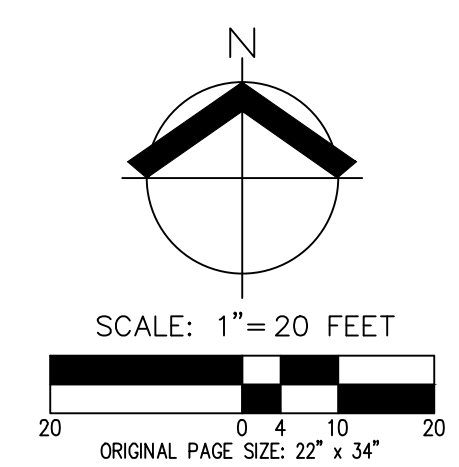
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 BENJAMIN R HUFF  
 84738PLS  
 RENEWS: 6/30/25

JOB NUMBER: 8015-01  
 DATE: 12/04/2023  
 DESIGNED BY: ---  
 DRAWN BY: CC/NJS  
 CHECKED BY: RB



MATCH LINE - SEE SHEET 03

EXISTING		EXISTING		LEGEND		EXISTING	
DECIDUOUS TREE		STORM DRAIN CLEAN OUT		RIGHT-OF-WAY LINE			
CONIFEROUS TREE		STORM DRAIN CATCH BASIN		BOUNDARY LINE			
FIRE HYDRANT		STORM DRAIN AREA DRAIN		PROPERTY LINE			
WATER BLOWOFF		STORM DRAIN MANHOLE		CENTERLINE			
WATER METER		GAS METER		DITCH			
WATER VALVE		GAS VALVE		CURB			
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AIR RELEASE VALVE		UTILITY POLE		EASEMENT			
SANITARY SEWER CLEAN OUT		POWER VAULT		FENCE LINE			
SANITARY SEWER MANHOLE		POWER JUNCTION BOX		GRAVEL EDGE			
SIGN		POWER PEDESTAL		POWER LINE			
STREET LIGHT		COMMUNICATIONS VAULT		OVERHEAD WIRE			
MAILBOX		COMMUNICATIONS JUNCTION BOX		COMMUNICATIONS LINE			
		COMMUNICATIONS RISER		FIBER OPTIC LINE			
				GAS LINE			
				STORM DRAIN LINE			
				SANITARY SEWER LINE			
				WATER LINE			
				RECLAIMED WATER LINE			
				CWS VEGETATED CORRIDOR			

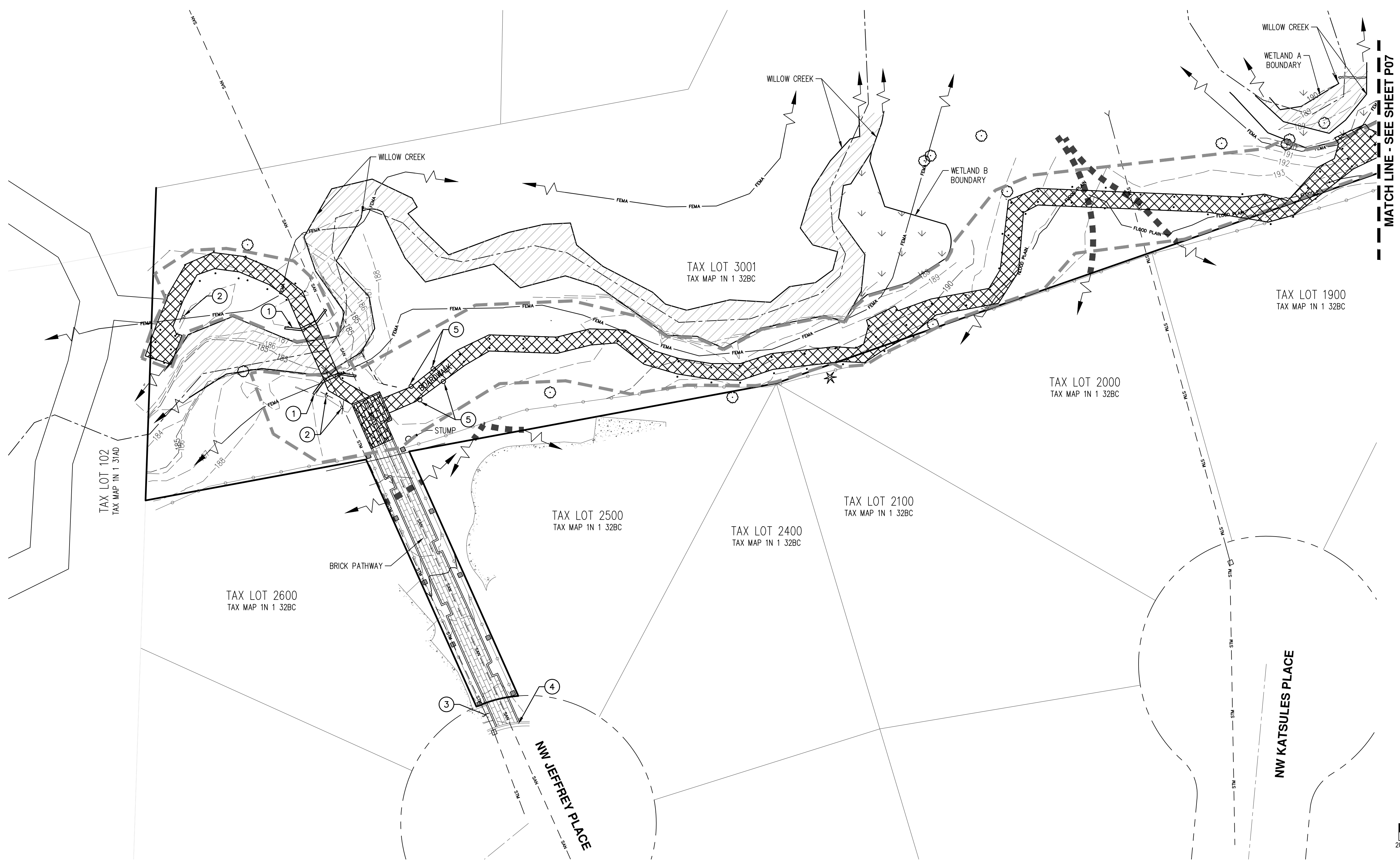


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**PRELIMINARY DEMOLITION PLAN  
 WILLOW CREEK BOARDWALK (EAST)  
 TUALATIN HILLS PARK & REC. DISTRICT  
 BEAVERTON, OREGON**



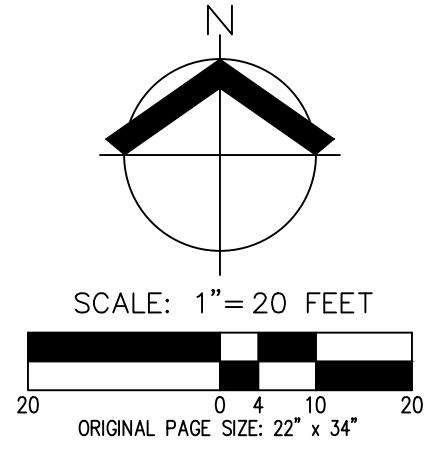
RENEWAL DATE: 12/31/23  
 JOB NUMBER: 8015-01  
 DATE: 03/21/2024  
 DESIGNED BY: SRR  
 DRAWN BY: BGZ  
 CHECKED BY: SRR



- GENERAL DEMO NOTES:**
1. CONTRACTOR SHALL POTHOLE ALL UTILITY CROSSING AND CONNECTIONS PRIOR TO CONSTRUCTION TO VERIFY LOCATION AND ELEVATIONS FOR ALL UTILITIES.
  2. THE CONTRACTOR SHALL PROTECT ALL TREES THAT ARE NOT SPECIFICALLY SHOWN TO BE REMOVED ON APPROVED PLANS. ALL TREES TO BE PRESERVED SHALL BE FENCED WITH STANDARD 4" ORANGE CONSTRUCTION FENCING AS SHOWN ON THE TREE PRESERVATION AND REMOVAL PLANS.

- KEYED DEMO NOTES:**
1. EXISTING ABUTMENTS TO REMAIN IN PLACE. SAWCUT BELOW EXISTING GRADE.
  2. REMOVE AND PROTECT THRU BOARDWALK SIGNS FOR REUSE.
  3. PROTECT CONCRETE SIDEWALK.
  4. PROTECT CURB & GUTTER.
  5. REMOVE WOOD COLUMN AND CONCRETE PILLAR FOUNDATIONS.

- LEGEND:**
- [Cross-hatch pattern] REMOVE WOODEN BOARDWALK, POSTS, CONCRETE FOUNDATIONS.
  - [Diagonal hatch pattern] REMOVE EXISTING BRICK PAVING AND BASE ROCK
  - [Dashed line] LIMITS OF DISTURBANCE
  - [199 contour line] EXISTING GROUND CONTOUR (1 FT)
  - [200 contour line] EXISTING GROUND CONTOUR (5 FT)
  - [Circle with dot] EXISTING DECIDUOUS TREE TO REMAIN
  - [Star symbol] EXISTING CONIFER TREE TO REMAIN



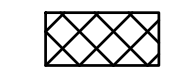






**GENERAL DEMO NOTES:**

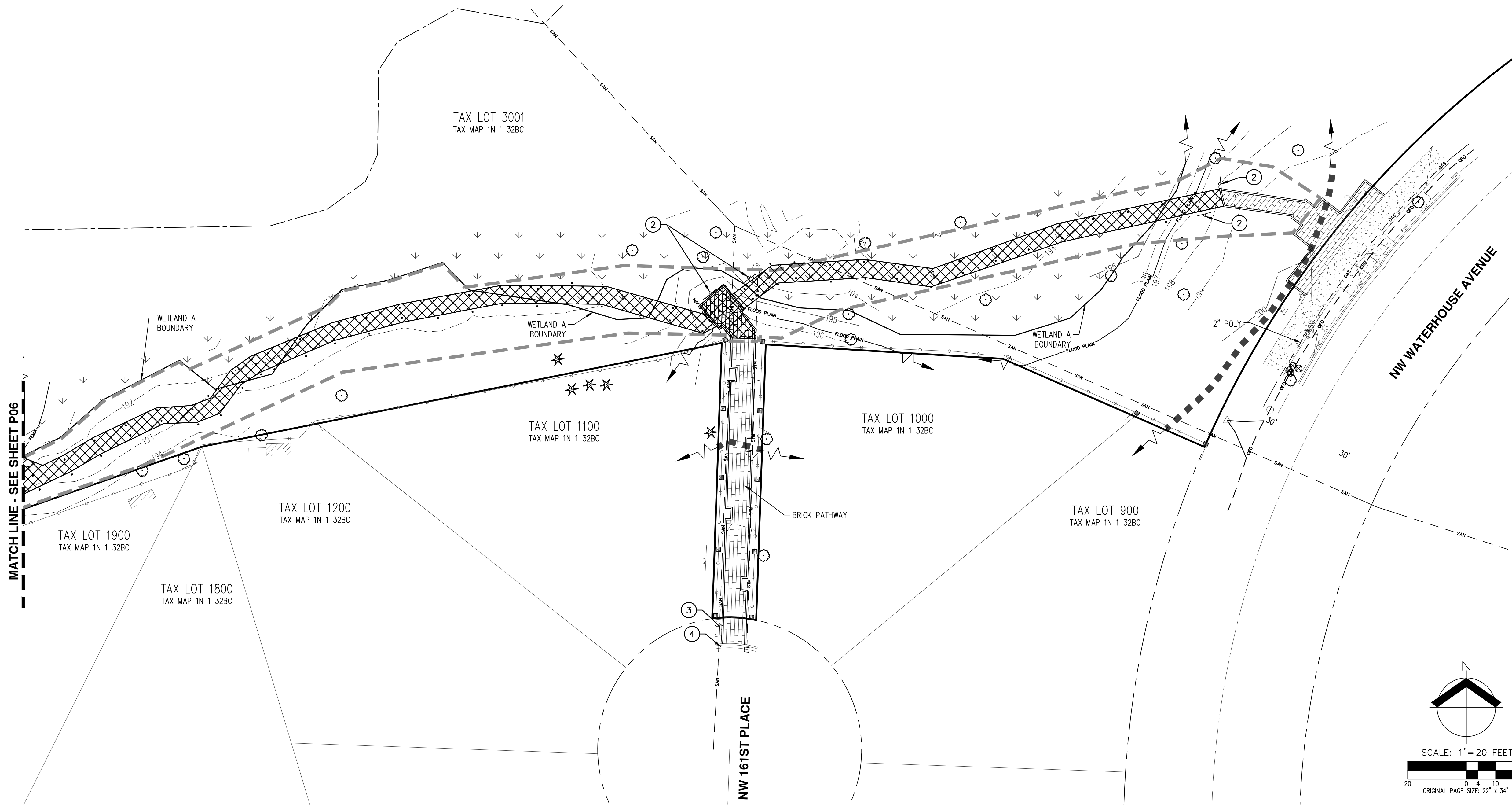
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**# KEYED DEMO NOTES:**

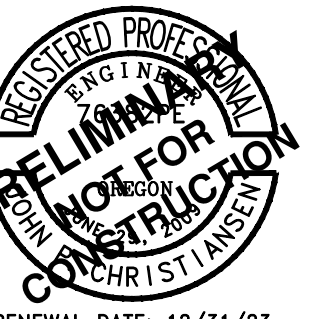
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- PROTECT CONCRETE SIDEWALK.
- PROTECT CURB & GUTTER.
- REMOVE WOOD COLUMN AND CONCRETE PILLAR FOUNDATIONS.

**LEGEND:**

-  REMOVE WOODEN BOARDWALK, POSTS, CONCRETE FOUNDATIONS.
-  REMOVE EXISTING BRICK PAVING AND BASE ROCK
-  LIMITS OF DISTURBANCE
-  EXISTING GROUND CONTOUR (1 FT)
-  EXISTING GROUND CONTOUR (5 FT)
-  EXISTING DECIDUOUS TREE TO REMAIN
-  EXISTING CONIFER TREE TO REMAIN

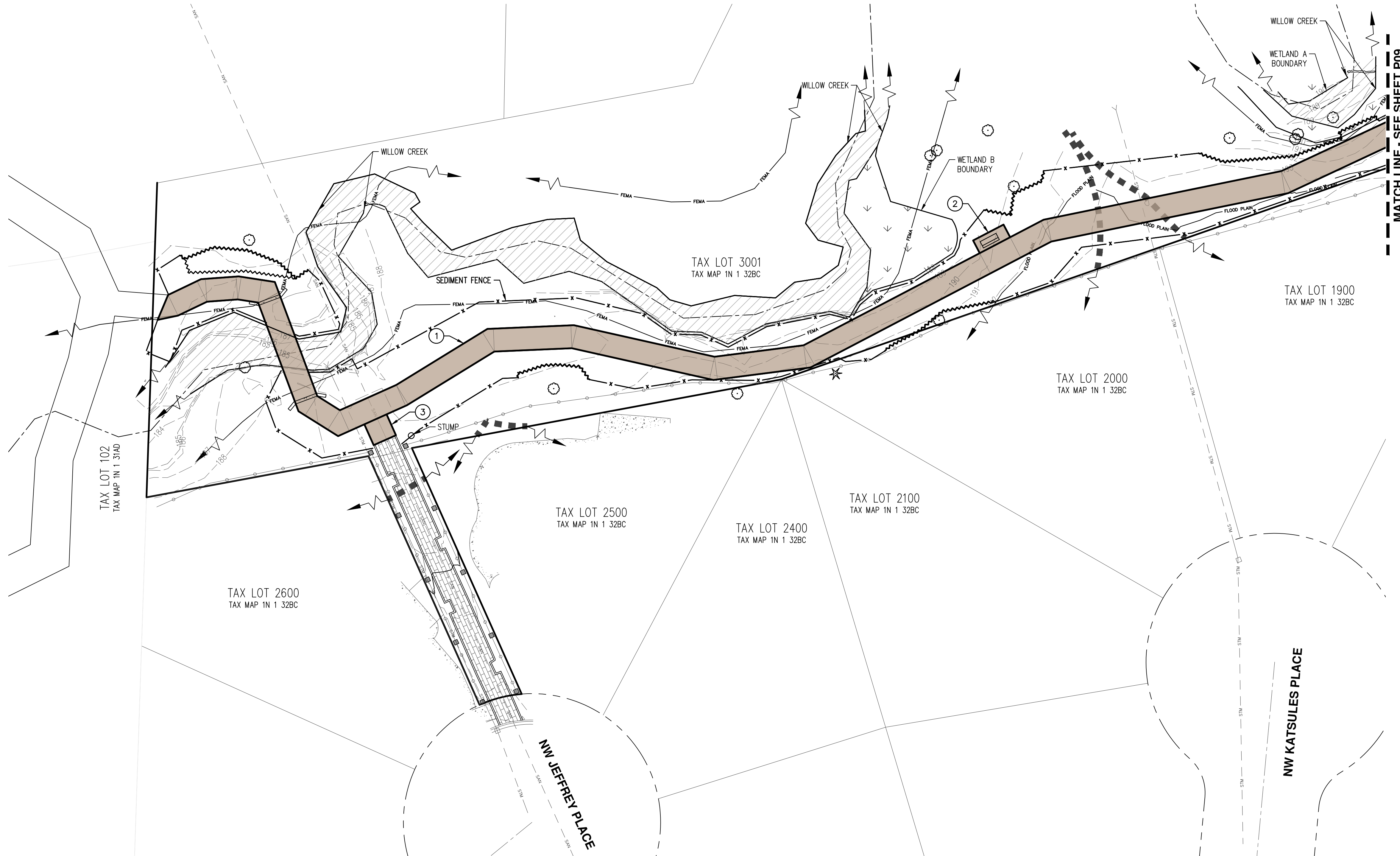


**PRELIMINARY DEMOLITION PLAN  
 WILLOW CREEK BOARDWALK (EAST)  
 TUALATIN HILLS PARK & REC. DISTRICT  
 BEAVERTON, OREGON**



RENEWAL DATE: 12/31/23

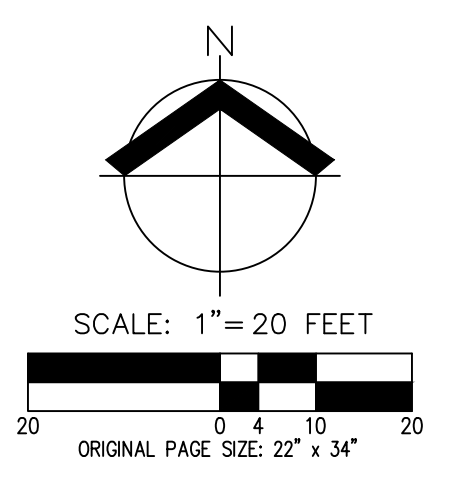
JOB NUMBER: 8015-01  
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 DESIGNED BY: SRR  
 DRAWN BY: BGZ  
 CHECKED BY: SRR



--- MATCH LINE - SEE SHEET P09

- # KEYED SITE NOTES:
1. NEW 8' WIDE BOARDWALK.
  2. 5' X 12' LOOKOUT WITH BACK BENCHES.
  3. BOARDWALK RAMP CONNECTION TO EXISTING PATHWAYS.

LEGEND	
EXISTING GROUND CONTOUR (1 FT)	--- 191 ---
EXISTING GROUND CONTOUR (5 FT)	--- 195 ---
SEDIMENT FENCE (TO BE INSTALLED PRIOR TO GRADING)	--- x --- x ---
TREE PROTECTION FENCE	~~~~~



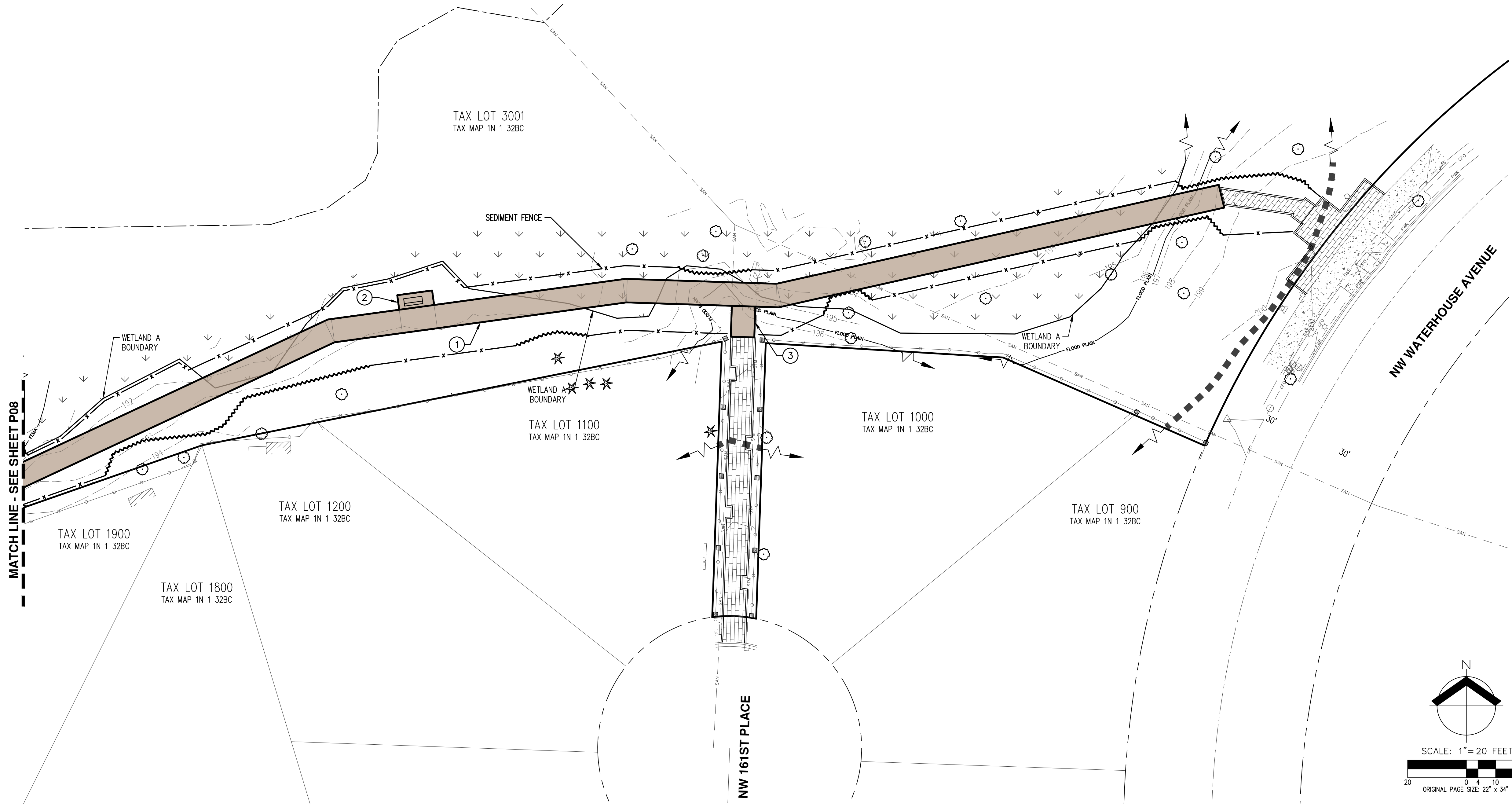
**PRELIMINARY GRADING, PAVING, AND ESP PLAN  
WILLOW CREEK BOARDWALK (EAST)  
TUALATIN HILLS PARK & REC. DISTRICT  
BEAVERTON, OREGON**

**AKS**  
AKS ENGINEERING & FORESTRY, LLC  
12965 SW HERMAN RD., STE 100  
TUALATIN, OR 97062  
503.563.6151  
WWW.AKS-ENG.COM  
ENGINEERING · SURVEYING · NATURAL RESOURCES  
FORESTRY · PLANNING · LANDSCAPE ARCHITECTURE



RENEWAL DATE: 12/31/23  
JOB NUMBER: 8015-01  
DATE: 03/21/2024  
DESIGNED BY: SRR  
DRAWN BY: BGZ  
CHECKED BY: SRR





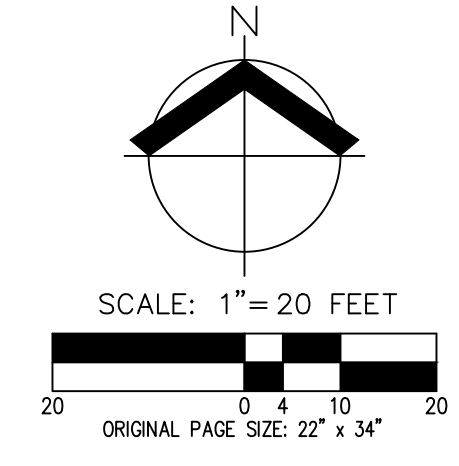
# KEYED SITE NOTES:

1. NEW 8' WIDE BOARDWALK.
2. 5' X 12' LOOKOUT WITH BACK BENCHES.
3. BOARDWALK RAMP CONNECTION TO EXISTING PATHWAYS.

MATCHLINE - SEE SHEET P08

**LEGEND**

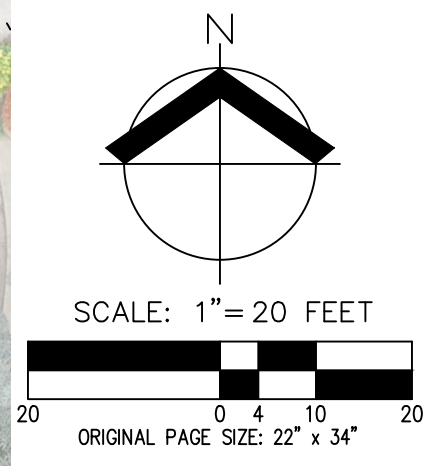
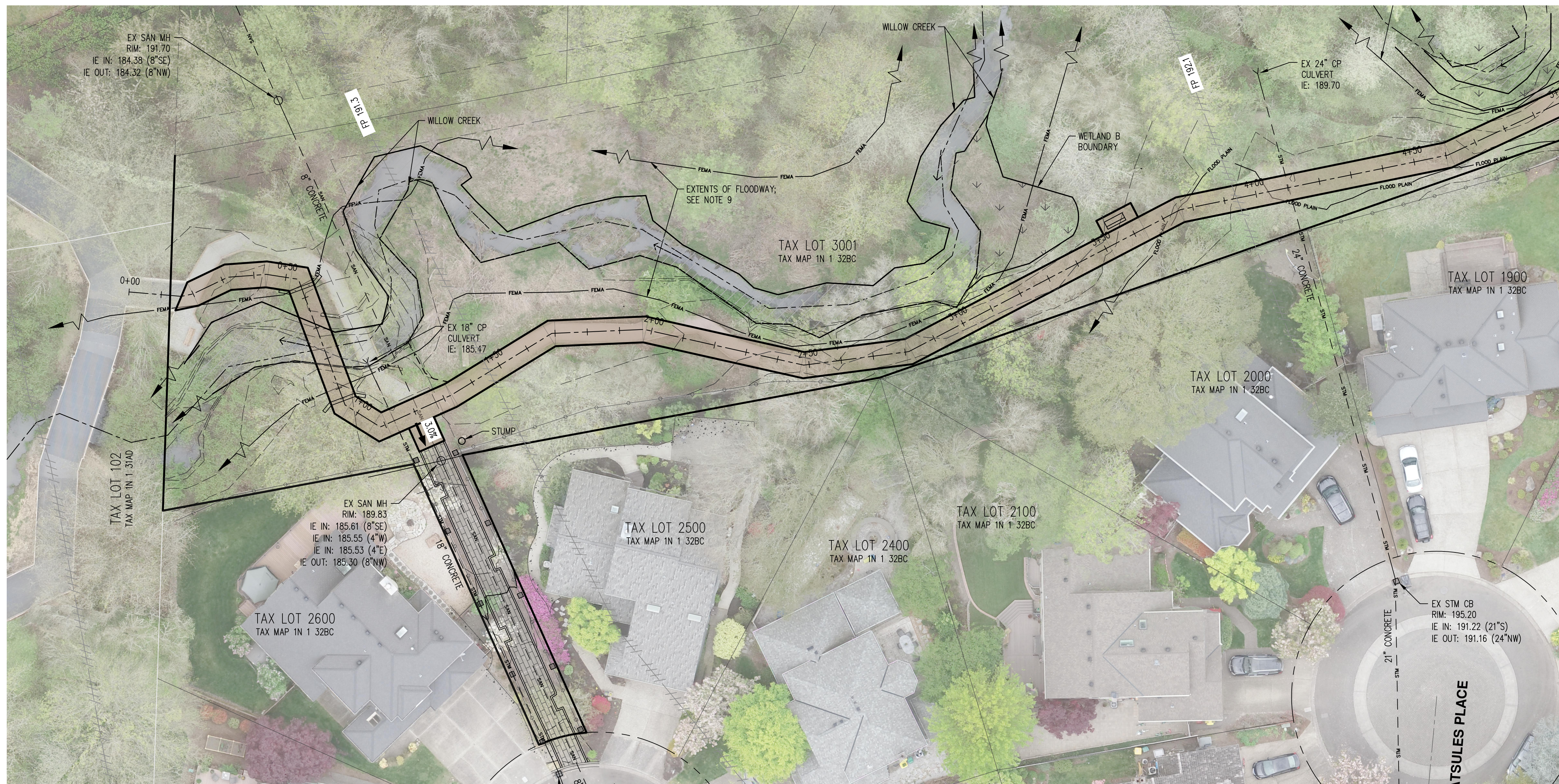
EXISTING GROUND CONTOUR (1 FT)	---	191	---
EXISTING GROUND CONTOUR (5 FT)	---	195	---
SEDIMENT FENCE (TO BE INSTALLED PRIOR TO GRADING)	-x-x-		
TREE PROTECTION FENCE	~~~~~		



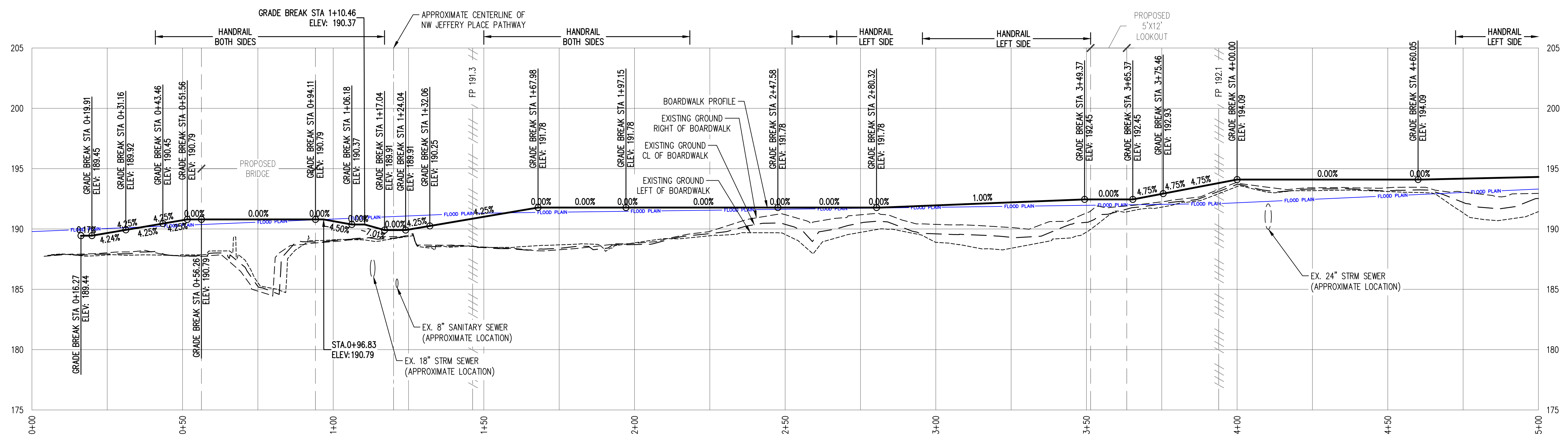
**PRELIMINARY GRADING, PAVING, AND ESP PLAN  
 WILLOW CREEK BOARDWALK (EAST)  
 TUALATIN HILLS PARK & REC. DISTRICT  
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MATCH LINE - SEE SHEET P11

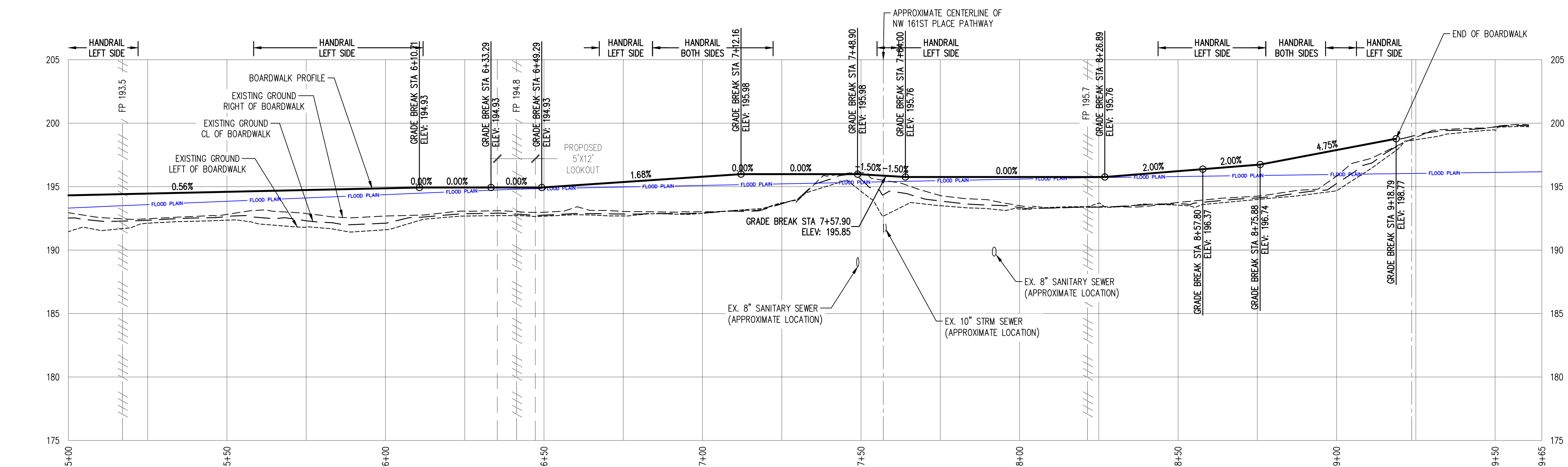
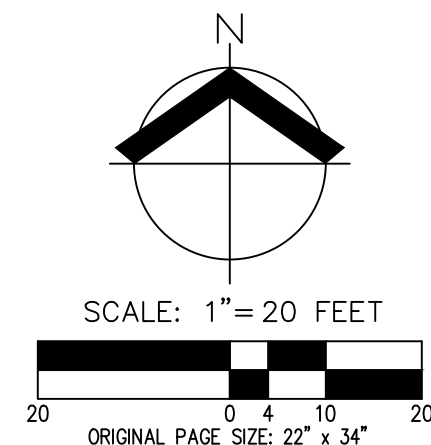


**PROPOSED BOARDWALK PROFILE**  
 HORZ. SCALE: 1" = 20'  
 VERT. SCALE: 1" = 5'

**PRELIMINARY BOARDWALK ALIGNMENT AND PROFILE**  
**WILLOW CREEK BOARDWALK (EAST)**  
 TUALATIN HILLS PARK & REC. DISTRICT  
 BEAVERTON, OREGON

REGISTERED PROFESSIONAL ENGINEER  
 PRELIMINARY  
 NOT FOR CONSTRUCTION  
 CHRISTIANSEN  
 RENEWAL DATE: 12/31/23  
 JOB NUMBER: 8015-01  
 DATE: 03/21/2024  
 DESIGNED BY: SRR  
 DRAWN BY: BGZ  
 CHECKED BY: SRR

AKS DRAWING FILE: 8015-01 C500 PROPOSED ALIGNMENT.DWG | LAYOUT: P10



**PROPOSED BOARDWALK PROFILE**  
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 VERT. SCALE: 1" = 5'

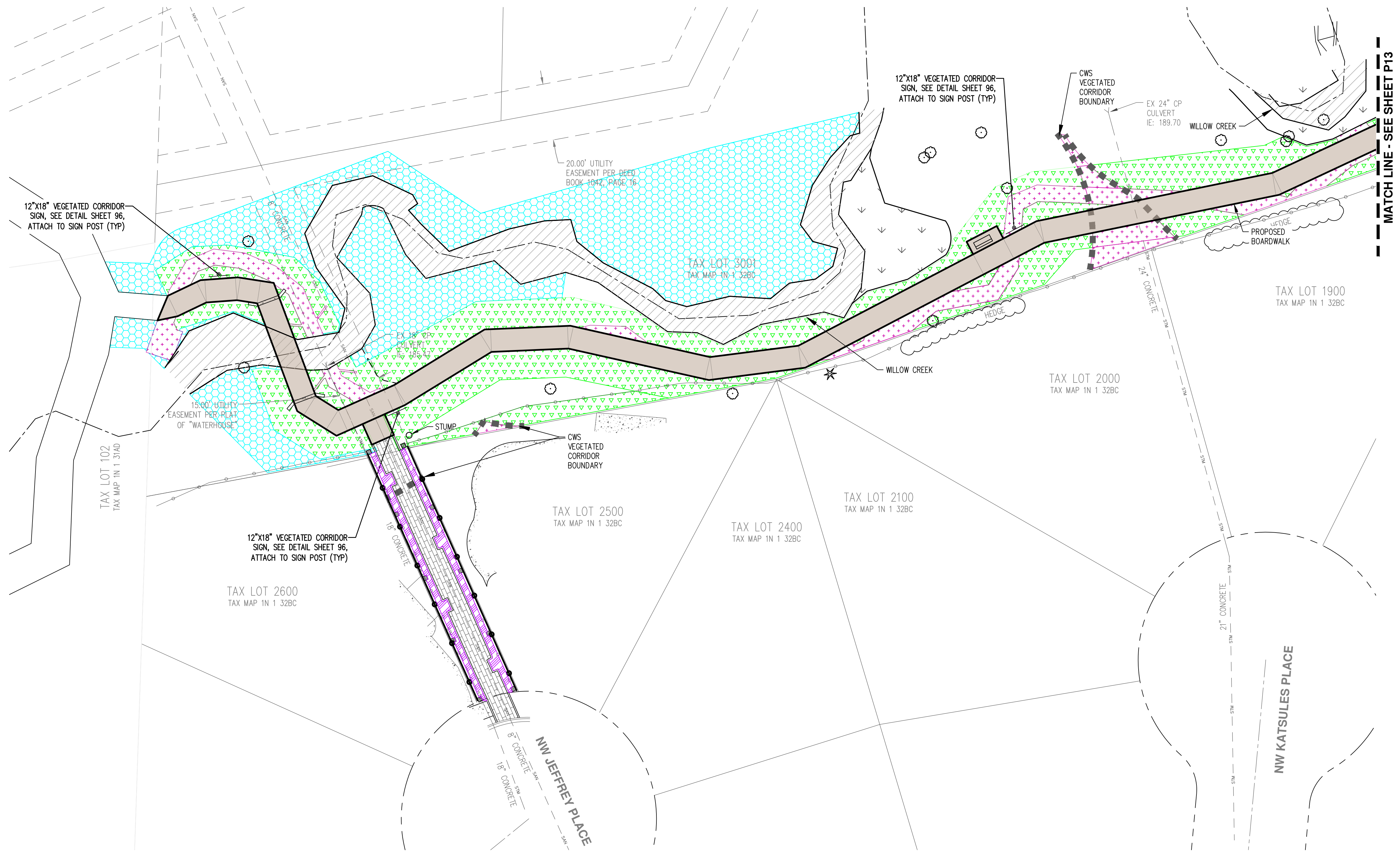
**BOARDWALK ALIGNMENT PLAN AND PROFILE**  
**WILLOW CREEK BOARDWALK (EAST)**  
**TUALATIN HILLS PARK & REC. DISTRICT**  
**BEAVERTON, OREGON**



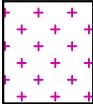
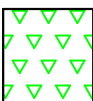
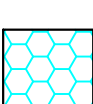
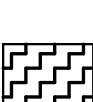

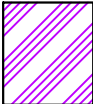

RENEWAL DATE: 12/31/23

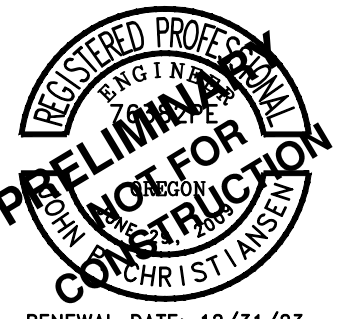
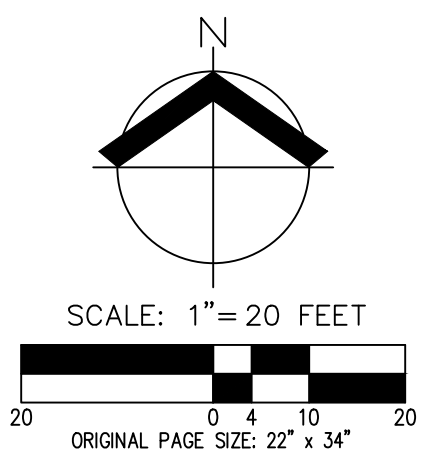
JOB NUMBER:	8015-01
DATE:	03/21/2024
DESIGNED BY:	SRR
DRAWN BY:	BGZ
CHECKED BY:	SRR

**PRELIMINARY LANDSCAPE PLAN  
 WILLOW CREEK BOARDWALK (EAST)  
 TUALATIN HILLS PARK & REC. DISTRICT  
 BEAVERTON, OREGON**



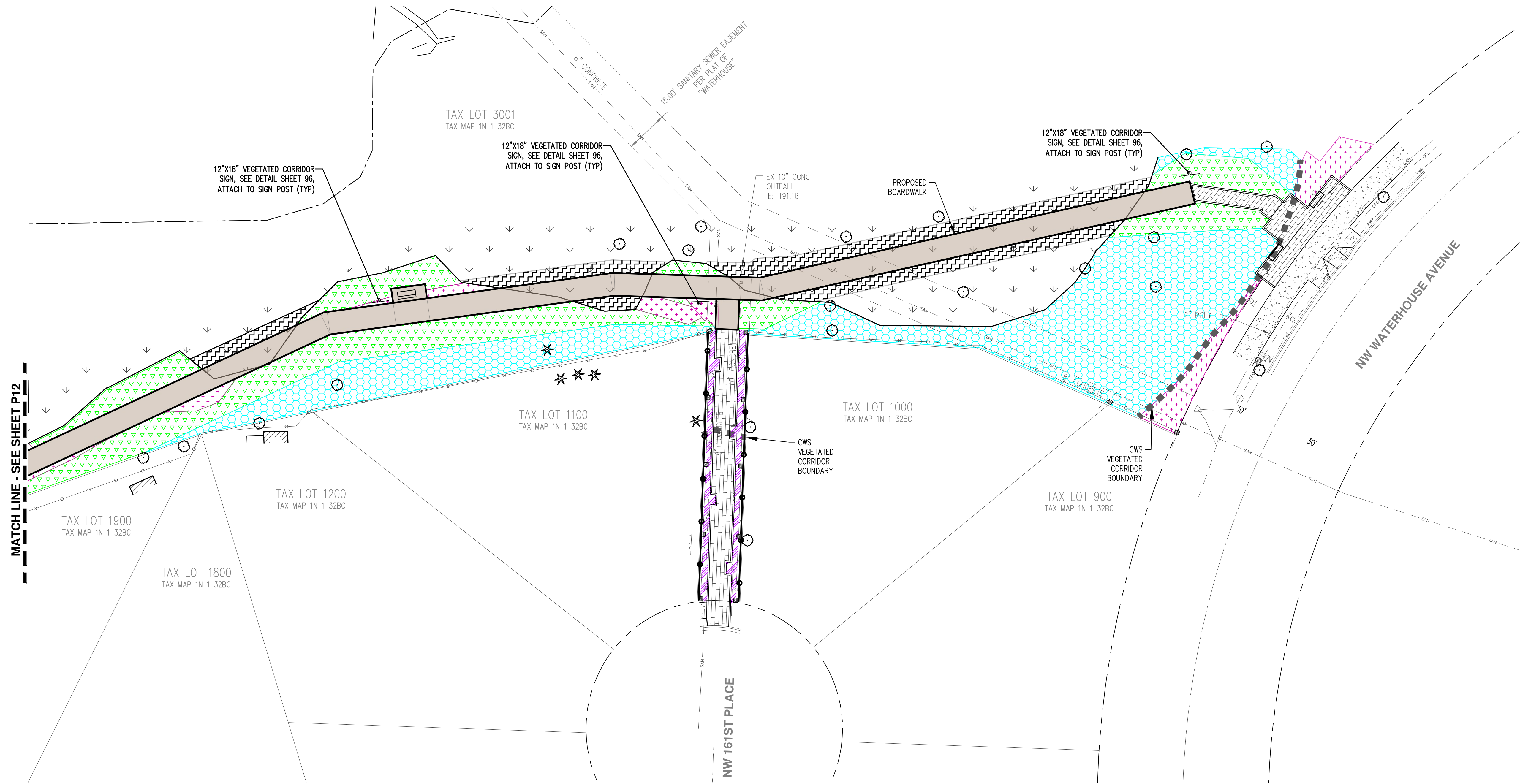
**VEGETATED CORRIDOR PLANTING LEGEND:**

-  REPLACEMENT MITIGATION AREA:  
SEE TABLE 1, SHEET P14 FOR PLANTING SPECIFICATIONS
-  RESTORATION MITIGATION AREA:  
SEE TABLE 2, SHEET P14 FOR PLANTING SPECIFICATIONS
-  MARGINAL/DEGRADED CONDITION VC ENHANCEMENT AREA:  
SEE TABLE 3, SHEET P14 FOR PLANTING SPECIFICATIONS
-  WETLAND RESTORATION AREA:  
SEE TABLE 4, SHEET P14 FOR PLANTING SPECIFICATIONS
-  LOCATION PER DIRECTION OF ENGINEER
-  PEDESTRIAN PATHWAY PLANTING:  
SEE TABLE 6, SHEET P14 FOR PLANTING SPECIFICATIONS
-  CWS VEGETATED CORRIDOR BOUNDARY

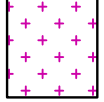
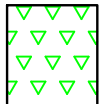
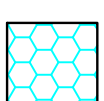
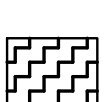

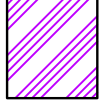



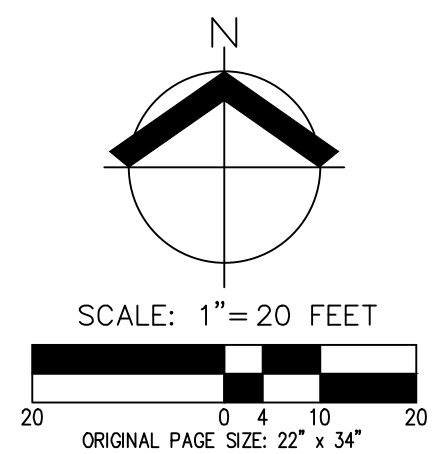
RENEWAL DATE: 12/31/23

JOB NUMBER:	8015-01
DATE:	03/21/2024
DESIGNED BY:	SRR
DRAWN BY:	NKP
CHECKED BY:	SRR



**VEGETATED CORRIDOR PLANTING LEGEND:**

-  REPLACEMENT MITIGATION AREA:  
SEE TABLE 1, SHEET P14 FOR PLANTING SPECIFICATIONS
-  RESTORATION MITIGATION AREA:  
SEE TABLE 2, SHEET P14 FOR PLANTING SPECIFICATIONS
-  MARGINAL/DEGRADED CONDITION VC ENHANCEMENT AREA:  
SEE TABLE 3, SHEET P14 FOR PLANTING SPECIFICATIONS
-  WETLAND RESTORATION AREA:  
SEE TABLE 4, SHEET P14 FOR PLANTING SPECIFICATIONS
-  LOCATION PER DIRECTION OF ENGINEER  
OREGON ASH TREE REPLACEMENT:  
SEE TABLE 5, SHEET P14 FOR PLANTING SPECIFICATIONS
-  PEDESTRIAN PATHWAY PLANTING:  
SEE TABLE 6, SHEET P14 FOR PLANTING SPECIFICATIONS
-  CWS VEGETATED CORRIDOR BOUNDARY



**PRELIMINARY LANDSCAPE PLAN  
WILLOW CREEK BOARDWALK (EAST)  
TUALATIN HILLS PARK & REC. DISTRICT  
BEAVERTON, OREGON**

**REGISTERED PROFESSIONAL ENGINEER**  
**PRELIMINARY**  
**NOT FOR CONSTRUCTION**  
RENEWAL DATE: 12/31/23  
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CHECKED BY: SRR

AKS DRAWING FILE: 8015-01\_C400\_LANDSCAPE.DWG | LAYOUT: P13

**WILLOW CREEK VEGETATED CORRIDOR PLANTING SPECIFICATIONS**

PLANTING SPECIFICATIONS FOR REPLACEMENT MITIGATION, RESTORATION OF TEMPORARY VEGETATED CORRIDOR ENROACHMENT, AND MARGINAL/ DEGRADED VEGETATED CORRIDOR ENHANCEMENT TO GOOD CONDITION, BASED ON THE REQUIREMENTS OUTLINED BY CWS IN DESIGN AND CONSTRUCTION STANDARDS R&O 19-5, APPENDIX A.

**TABLE 1: REPLACEMENT MITIGATION: ±2,980 SQUARE FOOT PLANTING AREA**

SCIENTIFIC NAME	COMMON NAME	SIZE*	SPACING/SEEDING RATE	QUANTITY
<b>TREES (TOTAL 35)</b>				
ALNUS RUBRA	RED ALDER	2 GALLON	10 FEET ON CENTER	5
ACER MACROPHYLLUM	BIG-LEAF MAPLE	2 GALLON	10 FEET ON CENTER	5
ALNUS RHOMBIFOLIA	WHITE ALDER	2 GALLON	10 FEET ON CENTER	5
QUERCUS GARRYANA	OREGON WHITE OAK	2 GALLON	10 FEET ON CENTER	5
PINUS PONDEROSA - W.V.	PONDEROSA PINE	2 GALLON	10 FEET ON CENTER	5
RHAMNUS PURSHIANA	CASCARA	2 GALLON	10 FEET ON CENTER	5
THUJA PLICATA	WESTERN RED CEDAR	2 GALLON	10 FEET ON CENTER	5
<b>SHRUBS (TOTAL 150)</b>				
SYMPHORICARPUS ALBUS	SNOWBERRY	1 GALLON	4-5 FEET ON CENTER	30
SAMBUCUS RACEMOSA	RED ELDERBERRY	1 GALLON	4-5 FEET ON CENTER	30
CORNUS ALBA	RED OSIER DOGWOOD	1 GALLON	4-5 FEET ON CENTER	30
SPIRAEA DOUGLASSI	SPIRAEA	1 GALLON	4-5 FEET ON CENTER	30
ROSA NUTKANA	NOOTKA ROSE	1 GALLON	4-5 FEET ON CENTER	30

**SEED MIX**

BROMUS CARINATUS	NATIVE CALIFORNIA BROME	SEED**	1 LB PLS/ACRE	AS NEEDED FOR BARE
FESTUCA ROEMERI	ROEMER'S FESCUE	SEED**	1 LB PLS/ACRE	SOIL AREAS > 25 SF

- \*\* BARE ROOT PLANTS MAY BE SUBSTITUTED FOR CONTAINERIZED SHRUBS BASED ON AVAILABILITY. IF BARE ROOT PLANTS ARE USED, THEY MUST BE PLANTED DURING THE LATE WINTER/EARLY SPRING DORMANCY PERIOD.
- \*\* BOSKY DELL NATIVES, HERITAGE SEEDLINGS, JONNY NATIVE SEED, AND SCHOLLS VALLEY NATIVE NURSERY OFFER CUSTOM SEED MIXES FOR PACIFIC NORTHWEST NATIVE PLANTS.

**TABLE 2: RESTORATION MITIGATION: ±10,380 SQUARE FOOT PLANTING AREA**

SCIENTIFIC NAME	COMMON NAME	SIZE*	SPACING/SEEDING RATE	QUANTITY
<b>TREES (TOTAL 105)</b>				
ALNUS RUBRA	RED ALDER	2 INCH CALIPER	10 FEET ON CENTER	15***
ACER MACROPHYLLUM	BIG-LEAF MAPLE	2 GALLON	10 FEET ON CENTER	15
ALNUS RHOMBIFOLIA	WHITE ALDER	2 GALLON	10 FEET ON CENTER	15
QUERCUS GARRYANA	OREGON WHITE OAK	2 GALLON	10 FEET ON CENTER	15
PINUS PONDEROSA - W.V.	PONDEROSA PINE	2 GALLON	10 FEET ON CENTER	15
RHAMNUS PURSHIANA	CASCARA	2 GALLON	10 FEET ON CENTER	15
THUJA PLICATA	WESTERN RED CEDAR	2 GALLON	10 FEET ON CENTER	15
<b>SHRUBS (TOTAL 520)</b>				
SYMPHORICARPUS ALBUS	SNOWBERRY	1 GALLON	4-5 FEET ON CENTER	104
SAMBUCUS RACEMOSA	RED ELDERBERRY	1 GALLON	4-5 FEET ON CENTER	104
CORNUS ALBA	RED OSIER DOGWOOD	1 GALLON	4-5 FEET ON CENTER	104
SPIRAEA DOUGLASSI	SPIRAEA	1 GALLON	4-5 FEET ON CENTER	104
ROSA NUTKANA	NOOTKA ROSE	1 GALLON	4-5 FEET ON CENTER	104

**SEED MIX**

BROMUS CARINATUS	NATIVE CALIFORNIA BROME	SEED**	1 LB PLS/ACRE	AS NEEDED FOR BARE
FESTUCA ROEMERI	ROEMER'S FESCUE	SEED**	1 LB PLS/ACRE	SOIL AREAS > 25 SF

- \*\* BARE ROOT PLANTS MAY BE SUBSTITUTED FOR CONTAINERIZED SHRUBS BASED ON AVAILABILITY. IF BARE ROOT PLANTS ARE USED, THEY MUST BE PLANTED DURING THE LATE WINTER/EARLY SPRING DORMANCY PERIOD.
- \*\* BOSKY DELL NATIVES, HERITAGE SEEDLINGS, JONNY NATIVE SEED, AND SCHOLLS VALLEY NATIVE NURSERY OFFER CUSTOM SEED MIXES FOR PACIFIC NORTHWEST NATIVE PLANTS.
- \*\*\* PER BEAVERTON DEVELOPMENT CODE (BDC) SECTION 60.60.25, 73.5 CALIPER INCHES OF DECIDUOUS TREES ARE REQUIRED AS ON-SITE MITIGATION AT A 2:1 RATIO, CALCULATED PER BDC SECTION 60.60.25(4). A TOTAL OF 37 2 INCH CALIPER TREES WILL BE PLANTED TO MEET THESE REQUIREMENTS.

**TABLE 3: MARGINAL/ DEGRADED CONDITION VC ENHANCEMENT: ±15,100 SQUARE FOOT PLANTING AREA**

SCIENTIFIC NAME	COMMON NAME	SIZE*	SPACING/SEEDING RATE	QUANTITY
<b>TREES (TOTAL 154)</b>				
ALNUS RUBRA	RED ALDER	2 INCH CALIPER	10 FEET ON CENTER	22***
ACER MACROPHYLLUM	BIG-LEAF MAPLE	2 GALLON	10 FEET ON CENTER	22
ALNUS RHOMBIFOLIA	WHITE ALDER	2 GALLON	10 FEET ON CENTER	22
QUERCUS GARRYANA	OREGON WHITE OAK	2 GALLON	10 FEET ON CENTER	22
PINUS PONDEROSA - W.V.	PONDEROSA PINE	2 GALLON	10 FEET ON CENTER	22
RHAMNUS PURSHIANA	CASCARA	2 GALLON	10 FEET ON CENTER	22
THUJA PLICATA	WESTERN RED CEDAR	2 GALLON	10 FEET ON CENTER	22
<b>SHRUBS (TOTAL 755)</b>				
SYMPHORICARPUS ALBUS	SNOWBERRY	1 GALLON	4-5 FEET ON CENTER	151
SAMBUCUS RACEMOSA	RED ELDERBERRY	1 GALLON	4-5 FEET ON CENTER	151
CORNUS ALBA	RED OSIER DOGWOOD	1 GALLON	4-5 FEET ON CENTER	151
SPIRAEA DOUGLASSI	SPIRAEA	1 GALLON	4-5 FEET ON CENTER	151
ROSA NUTKANA	NOOTKA ROSE	1 GALLON	4-5 FEET ON CENTER	151

**SEED MIX**

BROMUS CARINATUS	NATIVE CALIFORNIA BROME	SEED**	1 LB PLS/ACRE	AS NEEDED FOR BARE
FESTUCA ROEMERI	ROEMER'S FESCUE	SEED**	1 LB PLS/ACRE	SOIL AREAS > 25 SF

- \*\* BARE ROOT PLANTS MAY BE SUBSTITUTED FOR CONTAINERIZED SHRUBS BASED ON AVAILABILITY. IF BARE ROOT PLANTS ARE USED, THEY MUST BE PLANTED DURING THE LATE WINTER/EARLY SPRING DORMANCY PERIOD.
- \*\* BOSKY DELL NATIVES, HERITAGE SEEDLINGS, JONNY NATIVE SEED, AND SCHOLLS VALLEY NATIVE NURSERY OFFER CUSTOM SEED MIXES FOR PACIFIC NORTHWEST NATIVE PLANTS.
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**TABLE 4: WETLAND RESTORATION: ±1,840 SQUARE FOOT PLANTING AREA**

SCIENTIFIC NAME	COMMON NAME	SIZE*	SPACING/SEEDING RATE	QUANTITY
<b>SHRUBS (TOTAL 38)</b>				
CORNUS ALBA	RED OSIER DOGWOOD	1 GALLON	4-5 FEET ON CENTER	19
SPIRAEA DOUGLASSI	SPIRAEA	1 GALLON	4-5 FEET ON CENTER	19

**SEED MIX**

FESTUCA RUBRA	NATIVE RED FESCUE	SEED**	1 LB PLS/ACRE	AS NEEDED FOR BARE
AGROSTIS EXARATA	SPIKE BENTGRASS	SEED**	1 LB PLS/ACRE	SOIL AREAS > 25 SF

- \*\* BARE ROOT PLANTS MAY BE SUBSTITUTED FOR CONTAINERIZED SHRUBS BASED ON AVAILABILITY. IF BARE ROOT PLANTS ARE USED, THEY MUST BE PLANTED DURING THE LATE WINTER/EARLY SPRING DORMANCY PERIOD.
- \*\* BOSKY DELL NATIVES, HERITAGE SEEDLINGS, JONNY NATIVE SEED, AND SCHOLLS VALLEY NATIVE NURSERY OFFER CUSTOM SEED MIXES FOR PACIFIC NORTHWEST NATIVE PLANTS.

**TABLE 5: OREGON ASH TREE REPLACEMENT: 1:1 DBH RATIO**

SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	QUANTITY
<b>TREES (TOTAL 500)</b>				
SALIX SPP.	WILLOW	LIVE STAKE; 1/2" CALIPER MIN.	3 FEET ON CENTER*	500

\*LOCATION PER DIRECTION OF ENGINEER

**TABLE 6: PEDESTRIAN PATHWAY PLANTING: ±1,320 SQUARE FOOT PLANTING AREA**

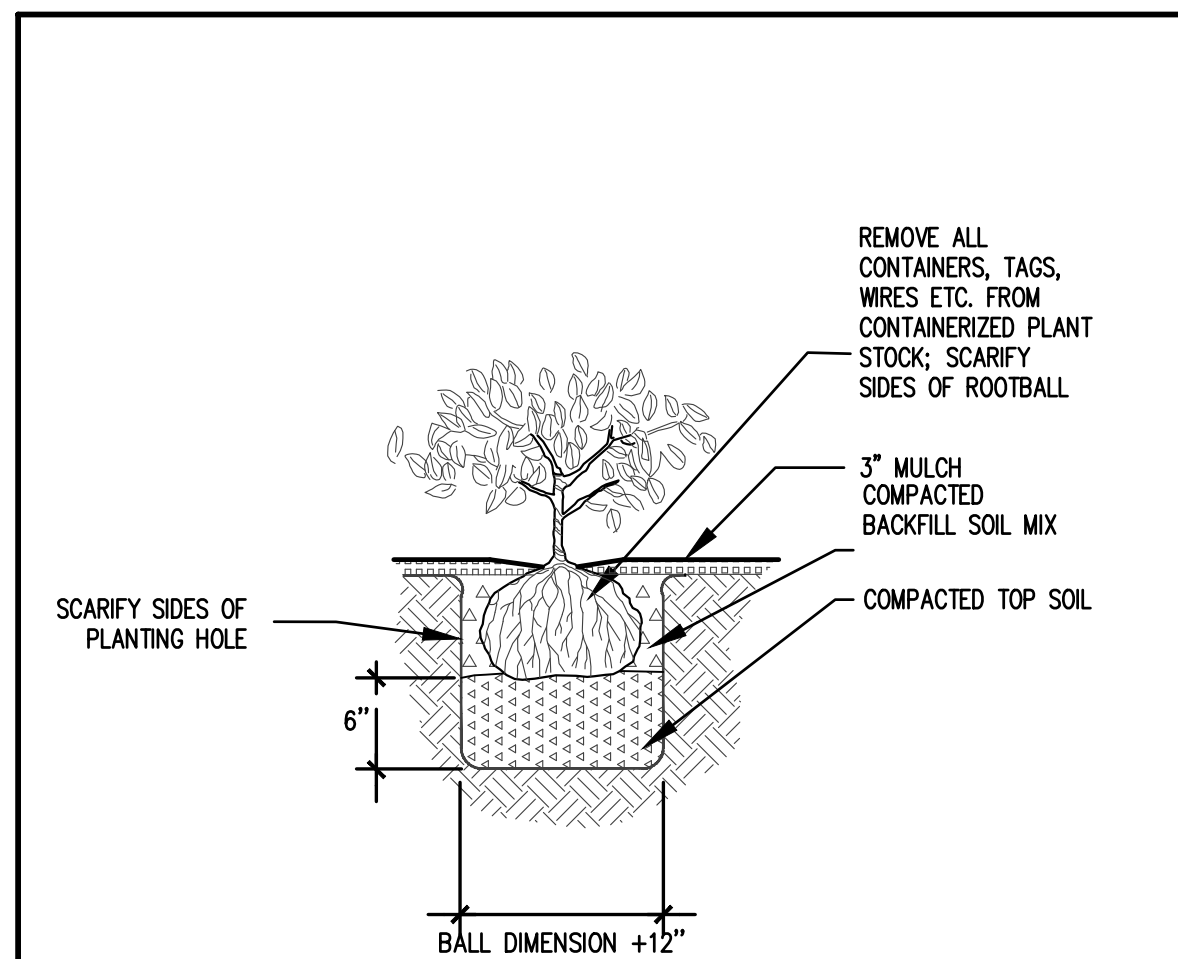
SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	QUANTITY
<b>GROUND COVER (TOTAL 530)</b>				
CAREX SPP.	NATIVE SEDGE	1 GALLON	18 INCHES ON CENTER	530

**PLANTING NOTES (PER CWS DESIGN & CONSTRUCTION STANDARDS R&O 19-5, AMENDED BY R&O 19-22, DECEMBER 2019 APPENDIX A PLANTING REQUIREMENTS):**

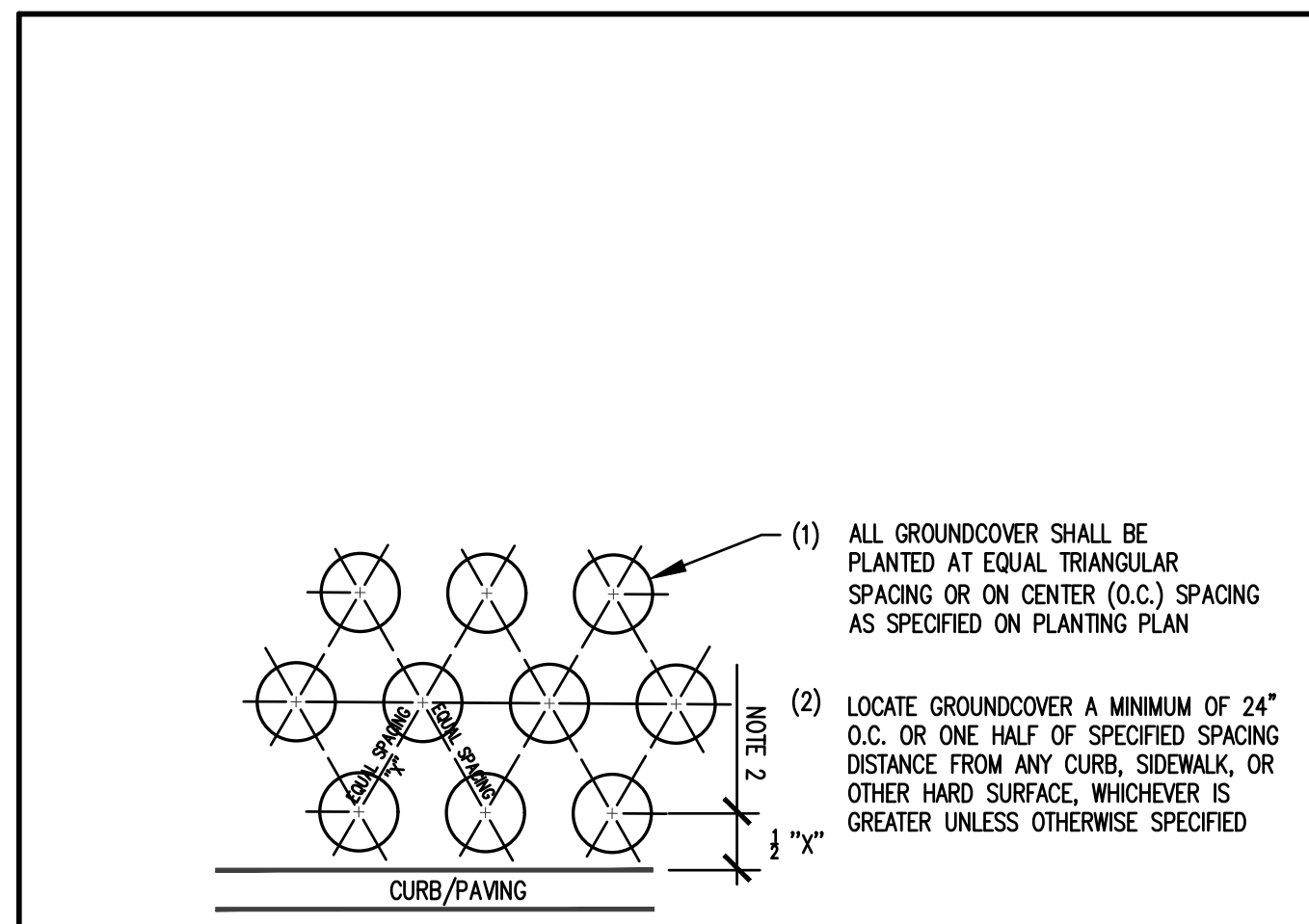
- PLANTINGS SHOULD PREFERABLY BE INSTALLED BETWEEN FEBRUARY 1 AND MAY 1 FOR BARE ROOTS AND SEEDS AND BETWEEN OCTOBER 1 AND NOVEMBER 1 FOR CONTAINERS. PLANTS MAY BE INSTALLED AT OTHER TIMES OF THE YEAR, HOWEVER ADDITIONAL MEASURE MAY BE NECESSARY TO ENSURE PLANT SURVIVAL DURING THE TWO-YEAR MAINTENANCE PERIOD, SUCH AS IRRIGATION OR OTHER WATER PRACTICES (I.E. POLYMER, PLUS WATERING). BARE ROOT PLANTS MUST BE INSTALLED DURING THE LATE WINTER/EARLY SPRING DORMANCY PERIOD. ADJUST PLANTINGS ON SITE AS NECESSARY TO AVOID CONFLICTS WITH NATIVE, EXISTING VEGETATION TO REMAIN.
- ALL NON-NATIVE INVASIVE VEGETATION SHALL BE REMOVED FROM PLANTING AREAS PRIOR TO INSTALLING NATIVE ENHANCEMENT PLANTINGS. INVASIVE SPECIES CONTROL SHALL BE CONSISTENT WITH CLEAN WATER SERVICES JUNE 2019 INTEGRATED PEST MANAGEMENT (IPM) PLAN.
- TREE, SHRUB AND GROUND COVER PLANTINGS SHALL BE MULCHED A MINIMUM OF 3-INCHES IN DEPTH AND 18-INCHES IN DIAMETER TO RETAIN MOISTURE AND DISCOURAGE WEED GROWTH AROUND NEWLY INSTALLED PLANT MATERIAL. MULCH SHALL BE OF A TYPE APPROVED BY CWS SUCH AS COMPOSTED BARK OR LEAVES THAT HAVE NOT BEEN CHEMICALLY TREATED. MULCH SHALL BE AVOIDED IN FREQUENTLY INUNDATED AREAS TO AVOID MIGRATION OF MULCH INTO WATER-WAYS AND LEACHING OF NUTRIENTS.
- TREE PLANTINGS SHALL BE PROTECTED FROM WILDLIFE DAMAGE (BEAVER, NUTRIA) BY INSTALLING TREE-PROTECTOR TUBES OR WIRE MESH CYLINDERS AROUND NEWLY INSTALLED PLANTINGS. WILDLIFE HABITAT REPLACEMENT TREES MAY BE PROTECTED BY WIRE CAGES IF NECESSARY TO PROTECT AGAINST WILDLIFE DAMAGE AND SHALL BE STAKED FOR SUPPORT FOR A MINIMUM OF 1-YEAR OR UNTIL ROOTS ARE ESTABLISHED. TREES PLANTED ON SLOPES SHALL BE SET VERTICALLY PLUMB.
- ALL NON-NATIVE INVASIVE VEGETATION SHALL BE REMOVED FROM PLANTING AREAS PRIOR TO INSTALLING NATIVE ENHANCEMENT PLANTINGS. INVASIVE SPECIES CONTROL SHALL BE CONSISTENT WITH CLEAN WATER SERVICES' JUNE 2019 INTEGRATED PEST MANAGEMENT (IPM) PLAN.
- APPROPRIATE PLANT SELECTION, ALONG WITH ADEQUATE SITE PREPARATION AND MAINTENANCE, REDUCES THE NEED FOR IRRIGATION. HOWEVER, UNLESS SITE HYDROLOGY IS CURRENTLY ADEQUATE, A TEMPORARY, ABOVE GROUND DISTRICT/CITY APPROVED IRRIGATION SYSTEM OR EQUIVALENT (I.E., POLYMER, PLUS WATERING) SHALL BE USED DURING THE TWO-YEAR PLANT ESTABLISHMENT PERIOD. WATERING SHALL BE AT A MINIMUM RATE OF AT LEAST ONE INCH PER WEEK FROM JUNE 15 THROUGH OCTOBER 15. OTHER IRRIGATION TECHNIQUES, SUCH AS DEEP WATERING, MAY BE ALLOWED WITH PRIOR APPROVAL BY DISTRICT STAFF.
- IF A TEMPORARY IRRIGATION SYSTEM IS PROVIDED, THE CONTRACTOR SHALL PROVIDE A 'DESIGN-BUILD' PLAN WITH HEAD, VALVE, AND PIPE LAYOUT, DISTRICT-APPROVED DOUBLE CHECK VALVE, AND BATTERY OPERATED ZONE CONTROLS. OBTAIN LANDSCAPE ARCHITECT AND CITY APPROVAL OF PLAN PRIOR TO CONSTRUCTION. REFER TO CLEAN WATER SERVICES (CWS) DESIGN AND CONSTRUCTION STANDARDS MANUAL. IRRIGATION SYSTEM SHALL BE VACATED AND REMOVED AT THE END OF THE TWO-YEAR MAINTENANCE PERIOD IF ACCEPTED BY CWS.
- TREE AND SHRUB PLANT TAGGING FOR DORMANT SEASON IDENTIFICATION SHALL BE USED. PLANT TAGS (FLAGS, SURVEYORS TAPE, ETC.) SHALL BE COLOR COORDINATED BY SPECIES. PROVIDE COLOR TAGGING INFORMATION TO OWNER AT PROJECT COMPLETION FOR MONITORING PURPOSES.
- DEPENDING ON SITE CONDITIONS, APPROPRIATE MEASURE SHALL BE TAKEN TO LIMIT WILDLIFE-RELATED PLANT DAMAGE (SEE IPM PLAN).

**MAINTENANCE PLAN:**

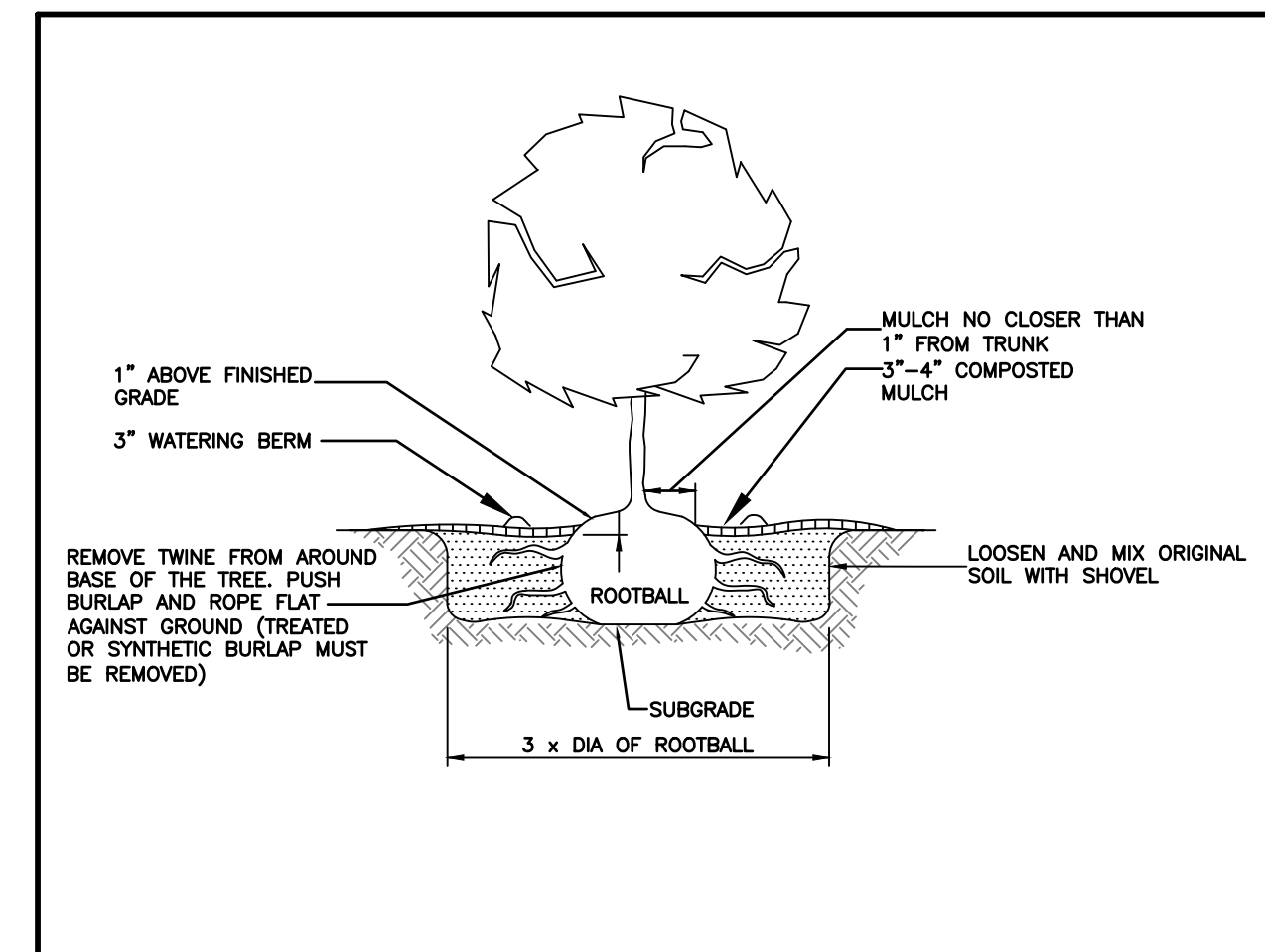
- CLEAN WATER SERVICES REQUIRES A TWO-YEAR MAINTENANCE PERIOD FOR VEGETATED CORRIDOR MITIGATION. THE ENHANCED VEGETATED CORRIDOR IS TO BE INSPECTED ANNUALLY, A MINIMUM OF THREE TIMES DURING THE GROWING SEASON (APRIL, JUNE, SEPTEMBER) AND ONCE PRIOR TO THE GROWING SEASON (FEBRUARY-MARCH). REPORT TO BE PROVIDED BY THE OWNER OR THEIR AGENT TO THE CITY AFTER EACH INSPECTION. SEASONAL MAINTENANCE SHALL BE DETERMINED BY SITE MONITORING AND SHALL INCLUDE BUT NOT BE LIMITED TO PRUNING, PLANT REPLACEMENT, INVASIVE SPECIES CONTROL AND REMOVAL, IRRIGATION SYSTEM OPERATION, MAINTENANCE, AND WINTERIZATION, ETC.
- PLANT SURVIVAL: CLEAN WATER SERVICES' SUCCESS CRITERION FOR VEGETATED CORRIDOR ENHANCEMENT IS 80% SURVIVAL OF TREE AND SHRUB PLANTINGS DURING THE TWO YEARS FOLLOWING PLANTING. IF ANY MORTALITY IS NOTED ON THE SITE, THE FACTOR LIKELY TO HAVE CAUSED MORTALITY OF PLANTINGS IS TO BE DETERMINED AND CORRECTED IF POSSIBLE. IF SURVIVAL FALLS BELOW 80% AT ANY TIME DURING THE TWO-YEAR MAINTENANCE PERIOD, THE PLANTINGS SHALL BE REPLACED AND OTHER CORRECTIVE MEASURES, SUCH AS MULCHING OR IRRIGATION, MAY NEED TO BE IMPLEMENTED. REPLACEMENT TREES SHALL BE 1-GALLON OR 2-GALLON TREES OF THE SAME SPECIES. IF REPLANTING IS NECESSARY, THE MAINTENANCE PERIOD WILL BE EXTENDED FOR TWO YEARS FROM THE DATE OF REPLANTING.
- INVASIVE SPECIES CONTROL IS TO BE CONDUCTED AS NEEDED BASED UPON THE SITE INSPECTIONS. INVASIVE SPECIES INCLUDE, BUT ARE NOT LIMITED TO: HIMALAYAN BLACKBERRY (RUBUS AMENIACUS), REED CANARYGRASS (PHALARIS ARUNDINACEA), TEASEL (DIPSACUS FULLONUM), CANADA AND BULL THISTLE (CIRSILIUM ARVENSE AND C. VULGARE), SCOTCH BROOM (CYTISUS SCOPARIS), PURPLE LOOSESTRIFE (LYTHRUM SALICARIA), JAPANESE KNOTWEED (POLYGONUM CUSPIDATUM), MORNING GLORY (CONVOLVULUS SPECIES), GIANT HOGWEED (HERACLEUM MANTEGAZIANUM), ENGLISH IVY (HEDERA HELIX), NIGHTSHADE (SOLANUM SPECIES), AND CLEMATIS (CLEMATIS LIGUSTICIFLUA AND C. VITALBA). REFER TO CWS INTEGRATED PEST MANAGEMENT MANUAL (IPM) MANUAL.



- 1 P14 TYPICAL SHRUB PLANTING DETAIL**
- NTS
- NOTES:
- BACKFILL SOIL MIX SHALL BE 1/3 ORGANIC MATERIALS AND 2/3 NATIVE TOPSOIL.
  - REMOVE ALL CONTAINERS, METAL, TWINE, TAGS, AND OTHER NON-BIODEGRADABLE MATERIALS PRIOR TO PLANTING.
  - ALL CONTAINERIZED PLANT STOCK SHALL BE VIGOROUS, FREE OF DISEASE AND PESTS, EVENLY FORMED, AND BE FULLY ROOTED IN THE CONTAINER IN WHICH THEY ARE DELIVERED. ALL PLANTS SHALL FOLLOW ANSI 260.1 (CURRENT EDITION) STANDARDS FOR NURSERY STOCK FOR CONTAINER SIZE, HEIGHT, ETC.
  - CONTRACTOR SHALL WATER-SETTLE PLANTING HOLES TO REMOVE AIR POCKETS.



- 2 P14 TYPICAL GROUND COVER PLANTING DETAIL**
- NTS
- NOTES:
- BACKFILL SOIL MIX SHALL BE 1/3 ORGANIC MATERIALS AND 2/3 NATIVE TOPSOIL.
  - REMOVE ALL CONTAINERS, METAL, TWINE, TAGS, AND OTHER NON-BIODEGRADABLE MATERIALS PRIOR TO PLANTING.
  - ALL CONTAINERIZED PLANT STOCK SHALL BE VIGOROUS, FREE OF DISEASE AND PESTS, EVENLY FORMED, AND BE FULLY ROOTED IN THE CONTAINER IN WHICH THEY ARE DELIVERED. ALL PLANTS SHALL FOLLOW ANSI 260.1 (CURRENT EDITION) STANDARDS FOR NURSERY STOCK FOR CONTAINER SIZE, HEIGHT, ETC.
  - CONTRACTOR SHALL WATER-SETTLE PLANTING HOLES TO REMOVE AIR POCKETS.



- TREE PLANTING- CONTAINER/ BURLAPPED**
- NTS
- NOTE:
- IF TREE IS CONTAINER GROWN STOCK, BREAK ROOT BALL APART BEFORE PLACING IN PLANTING HOLE.
- IF PLANT IS ROOT BOUND MAKE A VERTICAL CUT THROUGH THE LOWER 1/4 OF THE SOIL MASS. PULL OUT AND STRAIGHTEN LARGE, CIRCLING ROOTS.
- DRAWING NO. 793 REVISED 10-31-19**
- CleanWater Services

**NOTE:**

SIGNS TO BE MOUNTED ON POSTS, AND AT FREQUENCIES & LOCATIONS AS APPROVED BY DISTRICT OR CITY.

12"x18" SIGNS SHALL BE PLACED IN A MANNER AS TO CLEARLY IDENTIFY THE SENSITIVE AREA AND VEGETATED CORRIDOR. THIS WILL INCLUDE ALL POINTS OF ENTRY SUCH AS THE BEGINNING OF PATHS, TRAIL HEADS AND ANY PLACE THAT THE PUBLIC MAY WANT OR BE ABLE TO ENTER AREA.

4"x4" SIGNS SHALL BE USED FOR AREAS WHERE A LARGE NUMBER OF SIGNS ARE NEEDED SUCH AS THE BACK OR SIDE YARDS ON EACH LOT ADJACENT TO THE SENSITIVE AREA OR VEGETATED CORRIDOR IN NEW SUBDIVISIONS OF PARTITIONS.

**VEGETATED CORRIDOR SIGNAGE**

CleanWater Services

**DRAWING NO. 794 REVISED 10-31-19**

**PRELIMINARY LANDSCAPE PLANTING SCHEDULE, NOTES AND DETAILS**

**WILLOW CREEK BOARDWALK (EAST)**

**TUALATIN HILLS PARK & REC. DISTRICT**

**BEAVERTON, OREGON**

**AKS**

AKS ENGINEERING & FORESTRY, LLC  
12985 SW HERMAN RD., STE. 100  
TUALATIN, OR 97062  
503.563.6151  
WWW.AKS-ENG.COM

ENGINEERING - SURVEYING - NATURAL RESOURCES  
FORESTRY - PLANNING - LANDSCAPE ARCHITECTURE

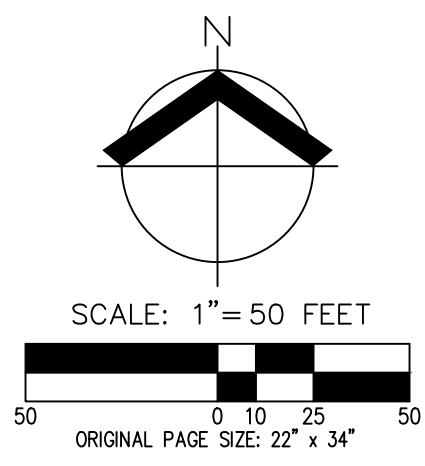
REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

**P14**

RENEWAL DATE: 12/31/23

JOB NUMBER: 8015-01  
DATE: 03/21/2024  
DESIGNED BY: SRR  
DRAWN BY: NKP  
CHECKED BY: SRR

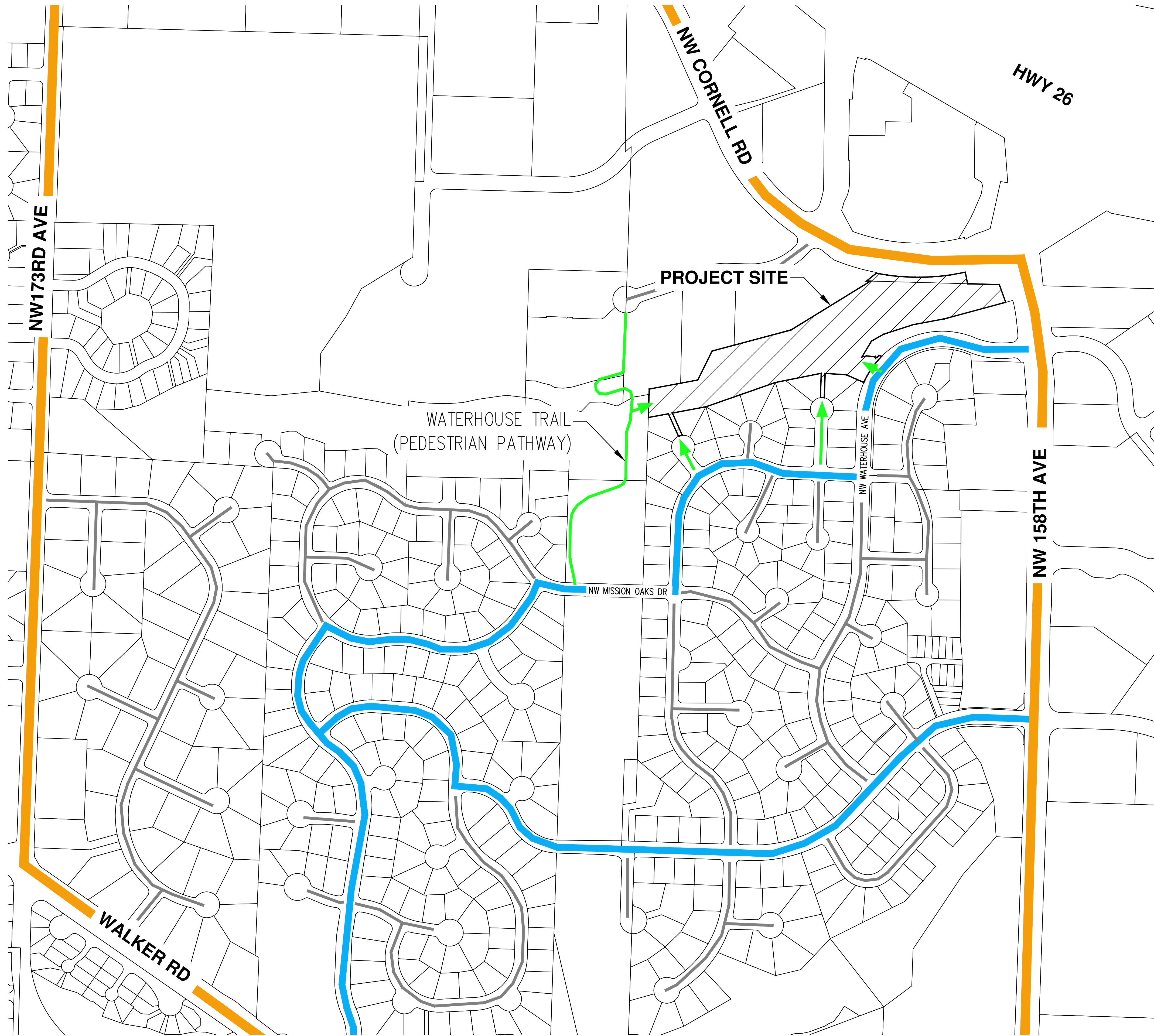
AKS DRAWING FILE: 8015-01\_C010 SITE.DWG | LAYOUT: P15



**PRELIMINARY AERIAL PHOTO AND SITE MAP  
WILLOW CREEK BOARDWALK (EAST)  
TUALATIN HILLS PARK & REC. DISTRICT  
BEAVERTON, OREGON**



RENEWAL DATE: 12/31/23  
JOB NUMBER: 8015-01  
DATE: 03/21/2024  
DESIGNED BY: SRR  
DRAWN BY: BGZ  
CHECKED BY: SRR



**LEGEND**

- ARTERIAL
- NEIGHBORHOOD ROUTE
- SITE ACCESS ROUTE
- LOCAL ROAD
- SUBJECT PROPERTY BOUNDARY

**PRELIMINARY NEIGHBORHOOD CIRCULATION PLAN**  
**WILLOW CREEK BOARDWALK (EAST)**  
**TUALATIN HILLS PARK & REC. DISTRICT**  
**BEAVERTON, OREGON**

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**REGISTERED PROFESSIONAL ENGINEER**  
**PRELIMINARY**  
**NOT FOR CONSTRUCTION**  
 CHRISTIANSEN  
 RENEWAL DATE: 12/31/23  
 JOB NUMBER: 8015-01  
 DATE: 03/21/2024  
 DESIGNED BY: SRR  
 DRAWN BY: BGZ  
 CHECKED BY: SRR