

GENERAL TREE PROTECTION GUIDELINES

LAKE HILLS TRUNK AND NORTHWEST LAKE SAMMAMISH INTERCEPTOR PROJECT

PROJECT SUMMARY

ON-SITE TREES OUTSIDE OF CRITICAL AREAS

470 SIGNIFICANT TREES ON SITE

20 LANDMARK TREES INCLUDED

37 SIGNIFICANT TREES RETAINED (INCLUDES 1 LANDMARK TREES)

113 IMPACTED TREES (INCLUDES 5 LANDMARK TREES)

320 SIGNIFICANT TREES REMOVED (INCLUDES 14 LANDMARK TREES)

348 MITIGATION TREES PLANTED (INCLUDES 18 PLACED IN OFF-SITE MITIGATION BANK. 330 ACTUAL TREES PLANTED)

ON-SITE TREES WITHIN CRITICAL AREAS

334 SIGNIFICANT TREES ON SITE

7 LANDMARK TREES INCLUDED

37 SIGNIFICANT TREES RETAINED (INCLUDES 1 LANDMARK TREES)

82 IMPACTED TREES (INCLUDES 4 LANDMARK TREES)

228 SIGNIFICANT TREES REMOVED (INCLUDES 2 LANDMARK TREES)

MITIGATION TREES ARE INCLUDED IN CRITICAL AREAS MITIGATION PLAN

METHOD OF EVALUATION

THE CONDITION OF THESE TREES WAS EVALUATED BASED ON VISUAL INSPECTION OF THE ABOVE GROUND PORTION OF THE TREES. TRUNK SOUNDNESS, TREE STRUCTURE, BUD FULLNESS AND COLOR AND TWIG LENGTH WERE OBSERVED. BINOCULARS WERE USED TO INSPECT SOME OF THE CROWNS. INVASIVE PROCEDURES, SUCH AS INCREMENT BORER OR RESISTOGRAPH, WERE NOT CONSIDERED NECESSARY TO CONFIRM SOUNDNESS OF THE TREES. ONLY A VERY LIMITED ROOT CROWN EXCAVATION WAS PERFORMED AT THE BASE OF THE TREES TO LOOK FOR ROT OR BASAL DECAY. THE METHOD USED TO EVALUATE THESE TREES IS BASED ON THE PROCESS OUTLINED AND DISCUSSED IN "EVALUATION OF HAZARD TREES IN URBAN AREAS" SECOND EDITION BY MATHENY AND CLARK, 1994 AND THOSE DISCUSSED IN THE TREE RISK ASSESSORS COURSE PROVIDED BY PACIFIC NORTHWEST CHAPTER OF THE ISA, 2008.

EVALUATED BY:

URBAN FORESTRY SERVICES, INC.

PAUL THOMPSON

ASCA Registered Consulting Arborist #509

ISA Certified Arborist #PN-1838A

ISA Tree Risk Assessment Qualified

Redmond General Tree Protection Guidelines with Critical Root Zone Explanation Attachment

**1. Responsibilities:** These Guidelines pertain to any disturbance, use or activity within the Tree Protection Area of any retained tree on this project; Tree Protection Area is defined by the City of Redmond as the dripline, plus 5-feet radius. See attached **Critical Root Zone Explanation** for reference on the area required to protect a retained tree. The owner's arborist and general contractor shall meet onsite before any site work begins, to review and designate the most appropriate methods to be used to protect the retained trees during construction.

These guidelines apply to work provided by all contractors and sub-contractors on the project.

The project consulting arborist shall be contacted prior to any work that may need to enter the tree protection fencing. Two days notice shall be provided to the project consulting arborist. A proposed method for work shall be provided to the arborist. This method shall be reviewed by the project consulting arborist and either approval and / or comments provided by the project consulting arborist prior to commencing works within the tree protection area. He or she should be notified within 8 hours should any injury occur to any protected tree or its larger roots (greater than 2-inch diameter) so that appropriate assessment and/or treatment may be made.

**2. Soil Disturbance:** No soil disturbance shall take place before tree protection fences are installed. All evaluated trees to be retained within these areas are clearly illustrated on the Site Plan.

**3. Designated Tree Removals:** The owner's arborist and contractor shall confirm on site which trees are to be removed and those to be retained. Directional felling and removal of trees will be completed with great care to avoid any damage to the trunks, limbs, and critical root zones of the retained trees.

**4. The Tree Protection Site Plan** shows the recommended location of the Tree Protection Fence (TPF). Immediately after the clearing limits and grading

stakes are set in the field, the owner's arborist, during review and discussion with the contractor, will make a final determination on the tree protection requirements depending on construction limits and impact on major roots and soil condition. The arborist may adjust clearing limits in the field so that, in his/her opinion, tree roots and soils are protected while necessary work can proceed.

**5. The Tree Protection Fence (TPF)** shall be installed along the clearing limits, with special consideration of the Tree Protection Area (and Critical Root Zone (CRZ)) of trees to be preserved. The Tree Protection Area is described by the City of Redmond as being the dripline radius plus an additional 5-feet. For example, a tree with a 15-foot radius will have a tree protection radius of 20-feet. The CRZ of a tree is generally described as an area equal to 1-foot radius for every 1-inch diameter of tree. For example, a 10-inch diameter tree has a CRZ of 10-foot radius. Work within the CRZ may be limited to hand work or alternate method of construction.

The Tree Protection Fence (TPF) shall be constructed with steel posts driven into the ground with 6-ft. chain link fence attached. See attached **Tree Protection Fence Detail for LHI Project, Redmond, WA**. Upon consultation with the contractor, the arborist shall determine the placement of the fence and the extent and method of clearing that may be done near preserved trees. Additional follow-up determinations may be required as work progresses on the project. See attached **Critical Root Zone Explanation**.

No parking, storage, dumping, or burning of materials is allowed beyond the clearing limits or within the Tree Protection Fence.

The TPF shall not be moved without authorization by the owner's arborist or city arborist. The TPF shall remain in place for the duration of the project.

Work within this area shall be reviewed with and approved by the owner's arborist / Project Consulting Arborist. Call Urban Forestry Services, Inc. at 360-428-5810 with questions.

**6. Silt Fence:** If a silt fence is required to be installed within the Tree Protection Area or Critical Root Zone of a retained tree, the bottom of the silt fence shall not be buried in a trench, but instead, folded over and placed flat on the ground. The flat portion of the silt fence shall be covered with gravel or soil for anchorage.

**7. Tree Protection Area or CRZ over Hardscape:** Where the Tree Protection Area or Critical Root Zone (CRZ) includes an area covered by hardscape, the TPF can be placed along the edge of the hardscape if and until it is removed. After hardscape removal, the available Tree Protection Area or CRZ should be backfilled with topsoil up to 6-inches deep and protected with the TPF. Incorporation of topsoil into the existing sub-grade shall be determined by the Project Consulting Arborist. Where applicable a specification for topsoil will be provided or approved by Urban Forestry Services, Inc.

**8. Tree Protection Signs** shall be attached to the fence only and shall be shown as required on the Site Plan. They should read "Protect Tree Protection Area | Critical Root Zone (CRZ) of trees to be retained. No soil disturbance, parking, storage, dumping, or burning of materials is allowed within the Tree Protection Barrier." Monetary Fines based on the appraised dollar value of the retained trees may also be included on these signs. Telephone contact details for the project consulting arborist should also be included in the sign.

**9. Soil Protection within the Tree Protection Area or Critical Root Zone (CRZ):** Where vehicular access, temporary work pad or storage pad is required within the Tree Protection Area or CRZ of any preserved tree that is not protected with hardscape, the soil shall be protected with 18-inches of woodchips and/or metal sheets to protect from soil compaction and damage to roots of retained trees. A biodegradable coir mat netting is recommended to be placed on the existing grade before woodchip placement to protect the condition and confirm the location of the existing grade. The netting is a valuable benchmark upon removal of the material within the Tree Protection Area or CRZ.

**10. Landscape Plans, Irrigation Design and Installation Details:** Great care shall be exercised when landscaping within the Tree Protection Area or Critical Root Zone (CRZ) of any tree. Roots of preserved trees and other vegetation shall not be damaged by planting or installation of irrigation lines. The owner's arborist shall review the Landscape Plan for any potential design and tree preservation conflicts and approve related irrigation and landscape installation activities within the Tree Protection Area or CRZ of retained trees. A proposed method for work shall be provided to and approved by the arborist.

**11. Backfill and Grade Changes:** The owner's arborist will determine to what extent backfilling may be allowed within the Tree Protection Area or Critical Root Zone of a preserved tree, and if needed, the specific material which may be used. Grade cuts are usually more detrimental than grade filling within the Tree Protection Area or CRZ and should be reviewed by the arborist well in advance of construction.

**12. Tree Maintenance and Pruning:** Trees recommended for maintenance and approved by the owner, shall be pruned for deadwood, low hanging limbs, and proper balance, as recommended for safety, clearance or aesthetics. All pruning shall be done by an International Society of Arboriculture Certified

Arborist. *ANSI A300 American Standards for Pruning* shall be used. Limbs of retained trees within 10 feet or less, of any power line, depending on power line voltage, may only be pruned by a Utility Certified Arborist. This pruning must be coordinated with the local power company, as they may prefer to provide this pruning.

**13. Underground Utilities:** Utility installation within the Critical Root Zone (CRZ) of any retained tree shall be reviewed by the Project Consulting Arborist. A less root disturbing route or minimal impact installation method of utility installation may be discussed and recommended i.e. tunneling or trenchless excavation. Trenching through the Interior CRZ of a retained tree is not usually allowed. See **CRZ Explanation to differentiate between the Perimeter and Interior CRZ**. An Air spade and Vac., (Vacuum) Truck may be required when utility installation is mandatory near a retained tree or other methodology such as trenchless excavation.

**14. Root Pruning:** Required work may result in the cutting of roots of retained trees. Cutting roots 2-inches or greater should be avoided. Potential root pruning needs should be reviewed in advance with the Project Consulting Arborist to minimize potential root fracturing and other damage. Severed roots of retained trees shall be cut off cleanly with a sharp saw or pruning shears. Applying pruning paint on trunk or root wounds is not recommended. Severed roots shall be covered immediately after final pruning with moist soil or covered with mulch until covered with soil. Excavation equipment operators shall take extreme care not to hook roots and pull them back towards retained trees. In all cases, the excavator shall sit outside of the Tree Protection Area or CRZ. Soil excavation within the Tree Protection Area or CRZ shall be under the direct supervision of the owner's arborist.

**15. Supplemental Tree Irrigation:** If clearing is performed during the summer, supplemental watering and/or mulching over the root systems within the Tree Protection Fencing of preserved trees may be required by the owner's arborist. The arborist should be notified of the proposed schedule for clearing and grading work. Supplemental watering and mulching over the root systems of roots impacted or stressed trees are strongly recommended to compensate for root loss and initiate new root growth. Long periods of slow drip irrigation will be most effective. A large coil of soaker hose starting at least 18-inches from the trunk and covering the Interior Critical Root Zone area is recommended. Water once per week and check soils for at least 12-inches infiltration. This work shall be under the direct supervision of the owner's arborist.

**16. Additional Measures:** Additional tree protection recommendations may be required and may be specified in Urban Forestry Services, Inc. report(s).

**17. Final Inspection:** The owner's arborist shall make a final site visit to report on retained tree condition following completed work and shall report to the city to release the bond for the retained trees

**18. Fencing:** Fencing needs to be installed around individual retained trees and around retained portion of impacted trees.

LAKE HILLS TRUNK AND NORTHWEST LAKE SAMMAMISH TREE EVALUATION

1,049 SIGNIFICANT TREES ON-SITE AND OFF-SITE HAVE BEEN EVALUATED IN THE FIELD ON THE LAKE HILLS TRUNK AND NORTHWEST LAKE SAMMAMISH INTERCEPTOR PROJECT SITE WITHIN THE CITY OF REDMOND. THIS PLAN SHOWS THE TREE TAG NUMBER AND PRESEVATION VALUE SYMBOL NEXT TO EACH TREE THE PRESERVATION VALUE RATING IS BASED ON INFORMATION DOCUMENTED FOR EACH TREE AVAILABLE ON AN EXCEL FILE. INFORMATION AVAILABLE INCLUDES TREE & SURVEY NUMBER, COMMON & SCIENTIFIC NAME, DIAMETER, VIGOR, STRUCTURE, RISK OF FAILURE, MAINTENANCE RECOMMENDATION, PRESERVATION VALUE AND COMMENTS.

Lake Hills Trunk and Northwest Lake Sammamish Interceptor Project Tree Removal, Impacted, and Preservation Summary Required by City of Redmond, Washington March 12, 2019 Draft

Tree Type	Removal	Impacted	Retained	Total
Landmark Tree (>30" dbh)	Number of Removed Landmark Trees	Number of Impacted Landmark Trees	Number of Retained Landmark Trees	Total Landmark Trees
	14	5	1	20
	% of removed Landmark Trees of all Trees	% of Impacted Landmark Trees of all Trees	% of Retained Landmark Trees of all Trees	% Landmark Trees of all Trees
	3.0%	1.1%	0.2%	4.3%
Significant Tree (6"-30")	Number of Removed Significant Trees	Number of Impacted Significant Trees	Number of Retained Significant Trees	Total Significant Trees
	306	108	36	450
	% of removed Significant Trees of all Trees	% of Impacted Significant Trees of all Trees	% of Retained Significant Trees of all Trees	% Significant Trees of all Trees
	65.1%	23.0%	7.7%	95.7%
Totals	Number of Landmark+Significant Removed	Number of Landmark+Significant Impacted	Number of Landmark+Significant Retained	Total Trees
	320	113	37	470
	% Removed of all trees	% Impacted of all Trees	% Retained of all Trees	% of total Trees
	68.1%	24.0%	7.9%	100.0%
Replacement Trees	42 for 14 Landmark Trees and 306 for 306 Significant Trees			348 Mitigation Trees

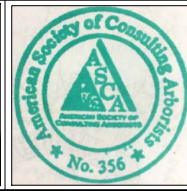
NOTES

- There are 470 Total Significant Trees onsite outside of critical areas. There are a total of 334 Significant trees in critical areas.
- 20 of the 470 trees outside of critical areas are Landmark trees. Seven of the 334 trees in critical areas are Landmark trees.
- A total of 36 Significant trees outside of critical areas will be retained without impact, equal to 7.7% of all trees. A total of 30 Significant trees in critical areas will be retained without impact, equal to 8.9% of all trees in critical areas.
- A total of 306 Significant trees and 14 Landmark trees will have to be removed and mitigated for outside of critical areas. A total of 226 Significant trees and two Landmark trees will have to be removed and mitigated for within critical areas.
- A total of 348 mitigation trees will be planted outside of critical areas, 306 mitigation trees for the 306 Significant trees removed, and 42 mitigation trees for the 14 Landmark trees removed. 330 trees will be placed on-site, and 18 trees will come from an off-site mitigation tree bank.
- Replacement trees for trees removed in critical areas are provided in the Critical Areas Mitigation Plan.
- A total of 12 Significant trees in public right-of-way will be removed. Per Redmond Code 21.72.030, trees removed in public right-of-way for the purposes of constructing public streets and utilities are exempt from obtaining a permit. Removed significant trees shall be mitigated with on-site or off-site tree replacement as set forth in the requirements of RZC 21.72.080
- Eight trees that are dead or dying are being replaced.
- The 8.5x11 sheets containing the Tree Evaluation Matrix of the documented tree information will be submitted with this site plan.

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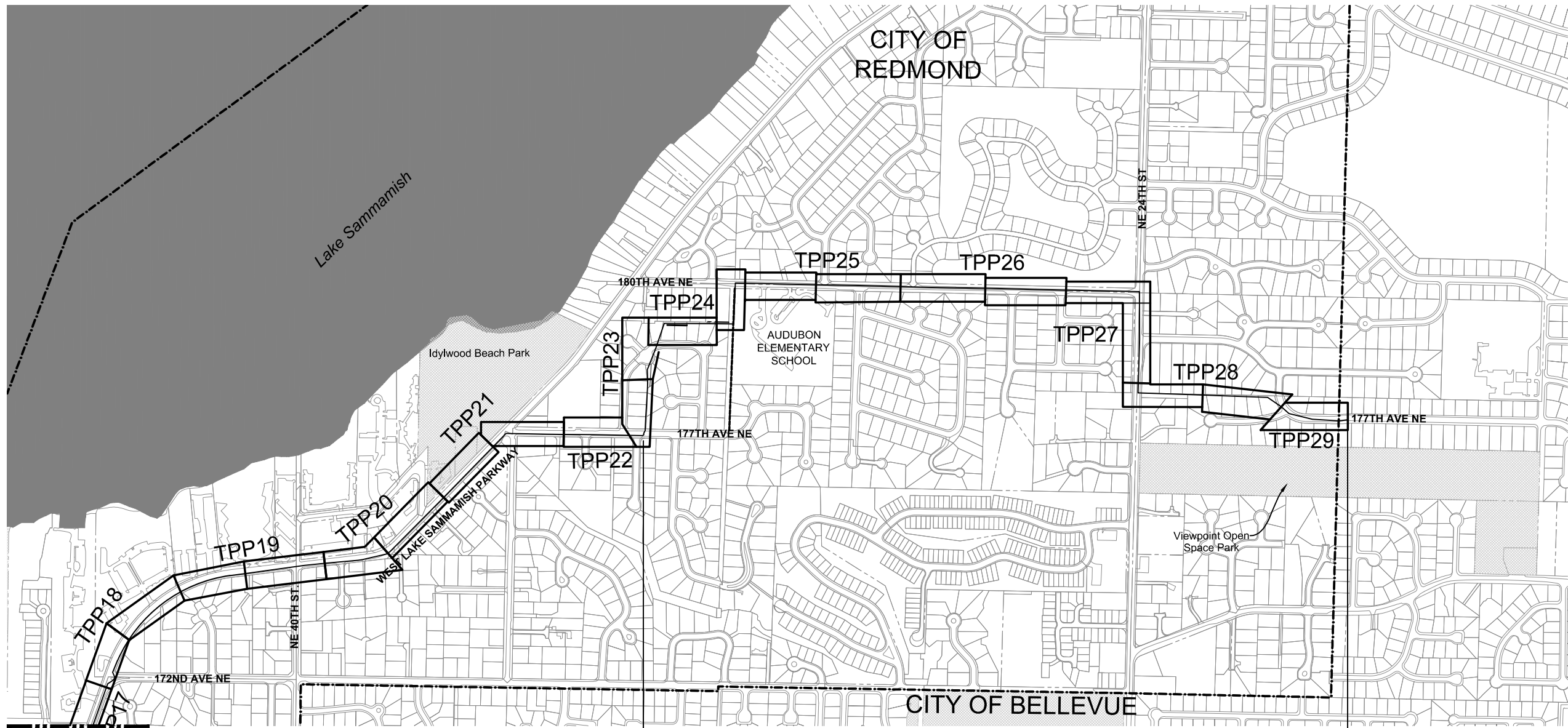


DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 LAKE HILLS TRUNK AND NORTHWEST  
 LAKE SAMMAMISH INTERCEPTOR PROJECT  
**CITY OF REDMOND**  
**TREE PRESERVATION PLAN**  
**SUMMARY, SYMBOLS,**  
**AND PROTECTION MEASURES**

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MATCH LINE  
SEE DWG G3

**SEGMENT 3**  
SAMMAMISH RIVER SIPHON  
TO LAKE HILLS TRUNK SIPHON  
CALL 24 HOURS BEFORE YOU DIG: 811

**SEGMENT 4**  
LAKE HILLS TRUNK SIPHON

**SEGMENT 5**  
LAKE HILLS TRUNK SIPHON  
TO BELLEVUE COLIMITS

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DEPARTMENT OF NATURAL RESOURCES & PARKS  
WASTEWATER TREATMENT DIVISION  
LAKE HILLS TRUNK AND NORTHWEST  
LAKE SAMMAMISH INTERCEPTOR PROJECT  
**CITY OF REDMOND  
TREE PRESERVATION PLAN  
KEY MAP 2**

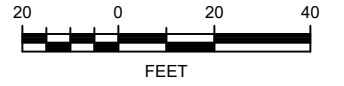
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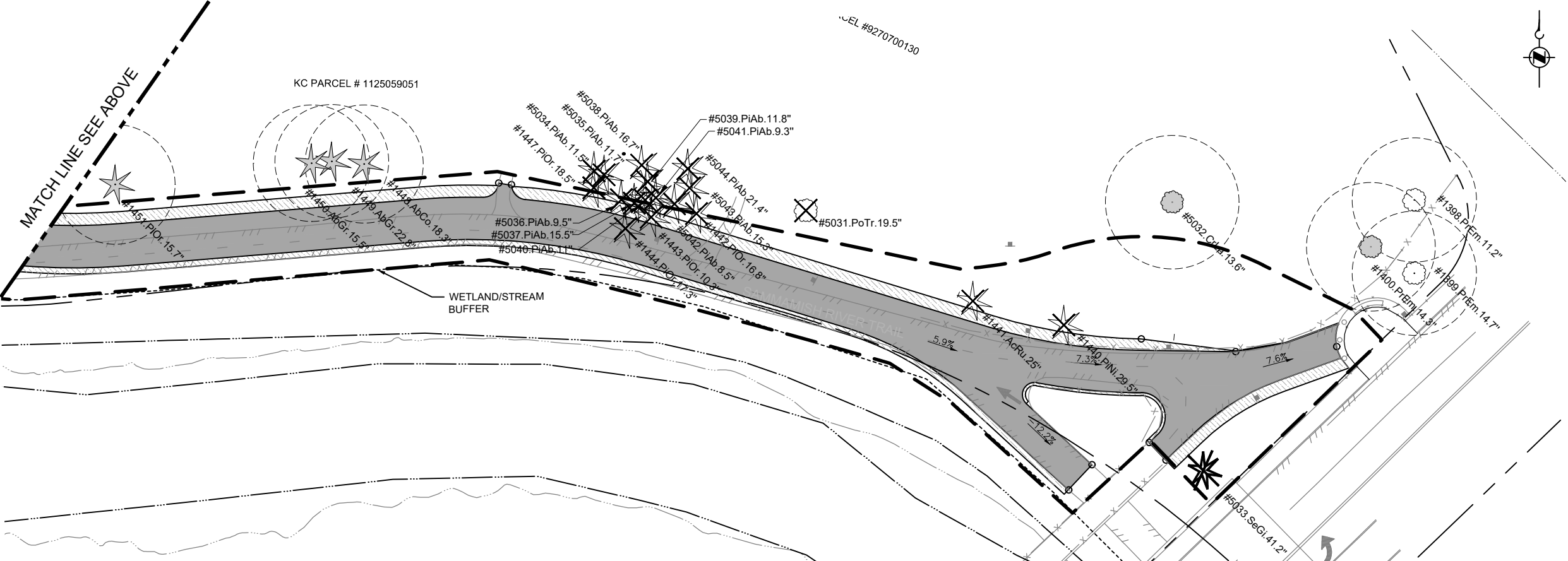
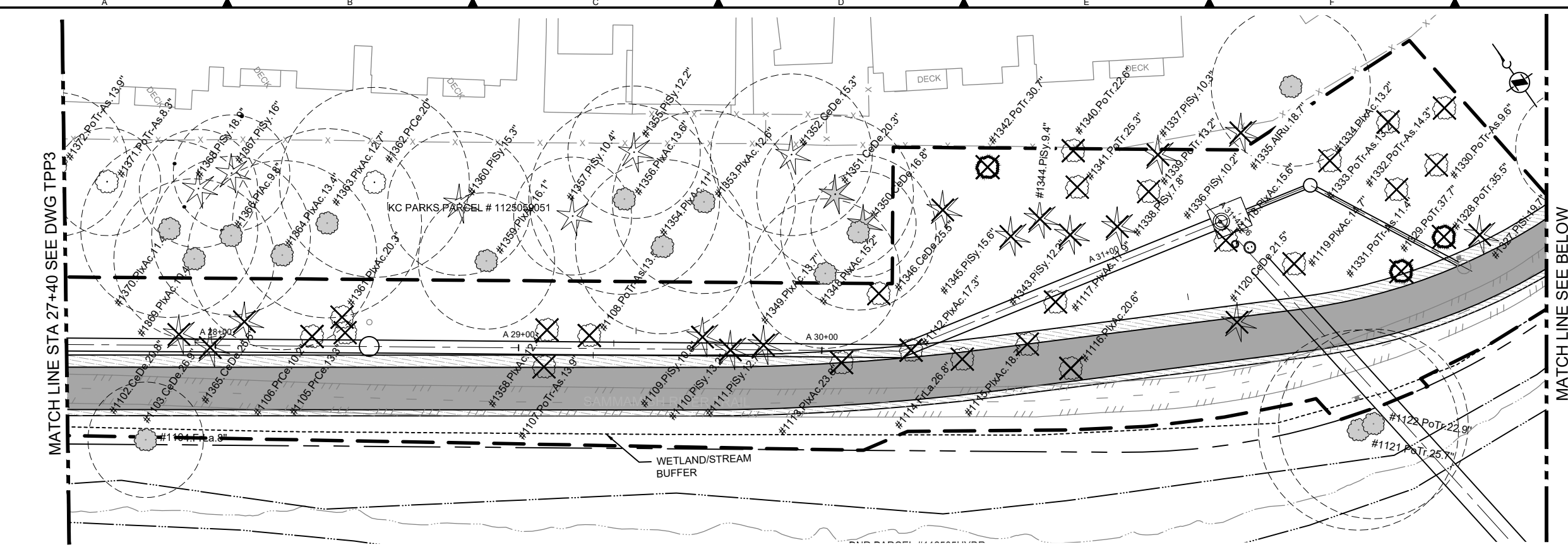


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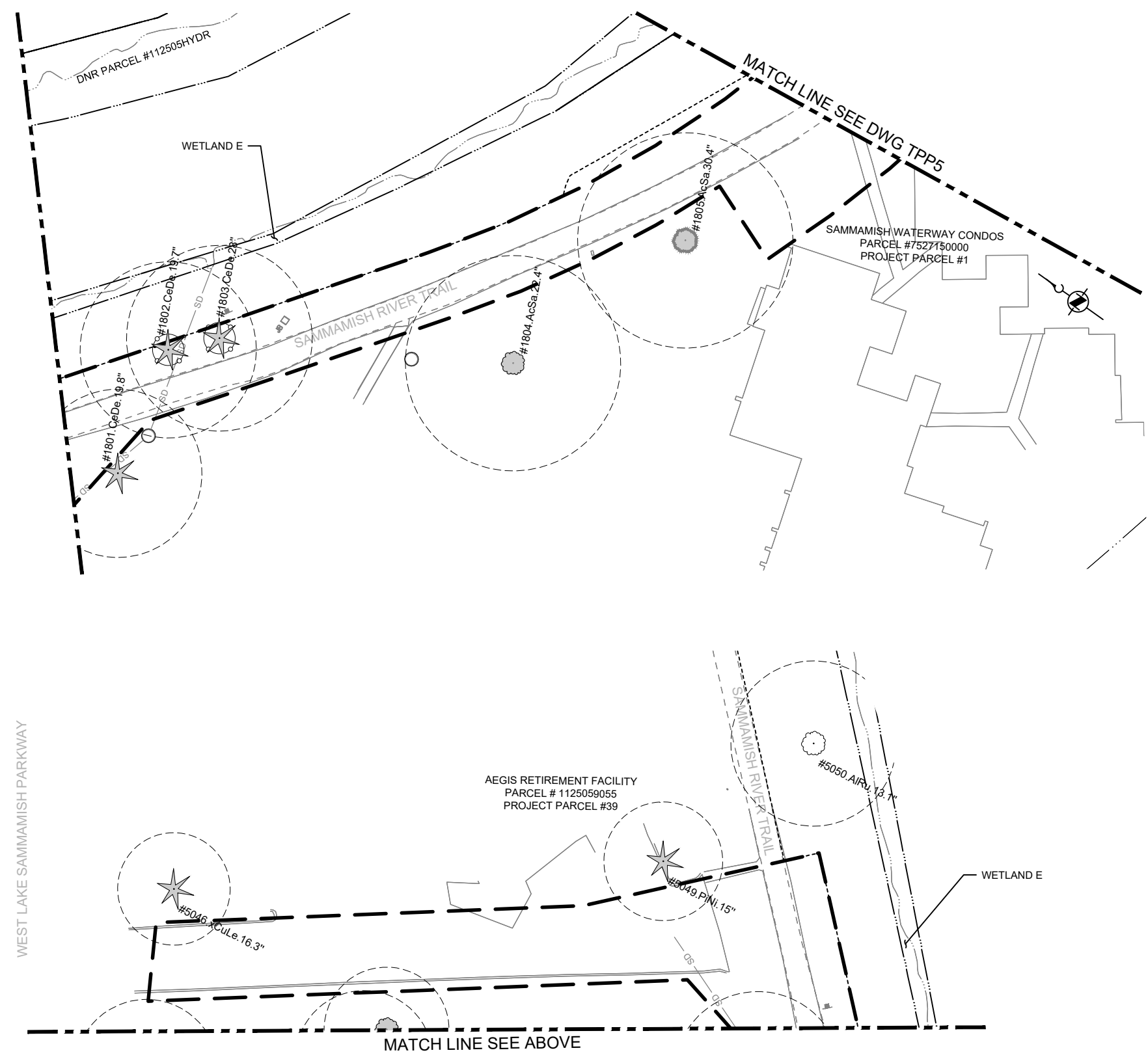
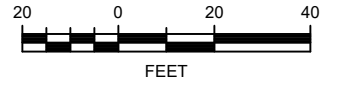
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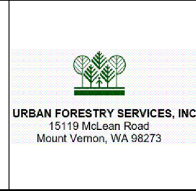


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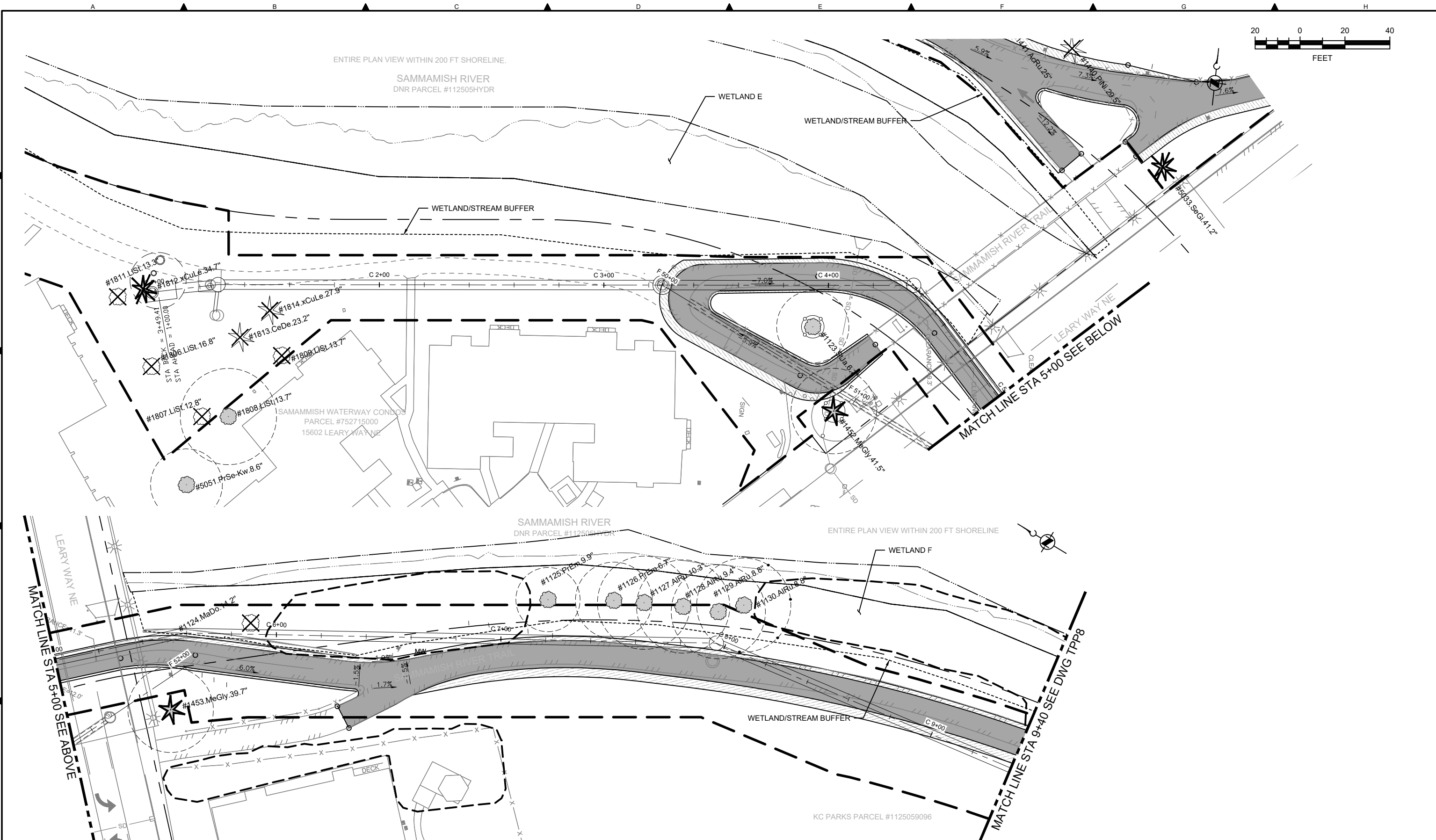
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DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 LAKE HILLS TRUNK AND NORTHWEST  
 LAKE SAMMAMISH INTERCEPTOR PROJECT  
**CITY OF REDMOND**  
**SEGMENT 3**  
**TREE PRESERVATION PLAN**  
**FOR CONSTRUCTION ACCESS**

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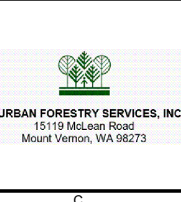
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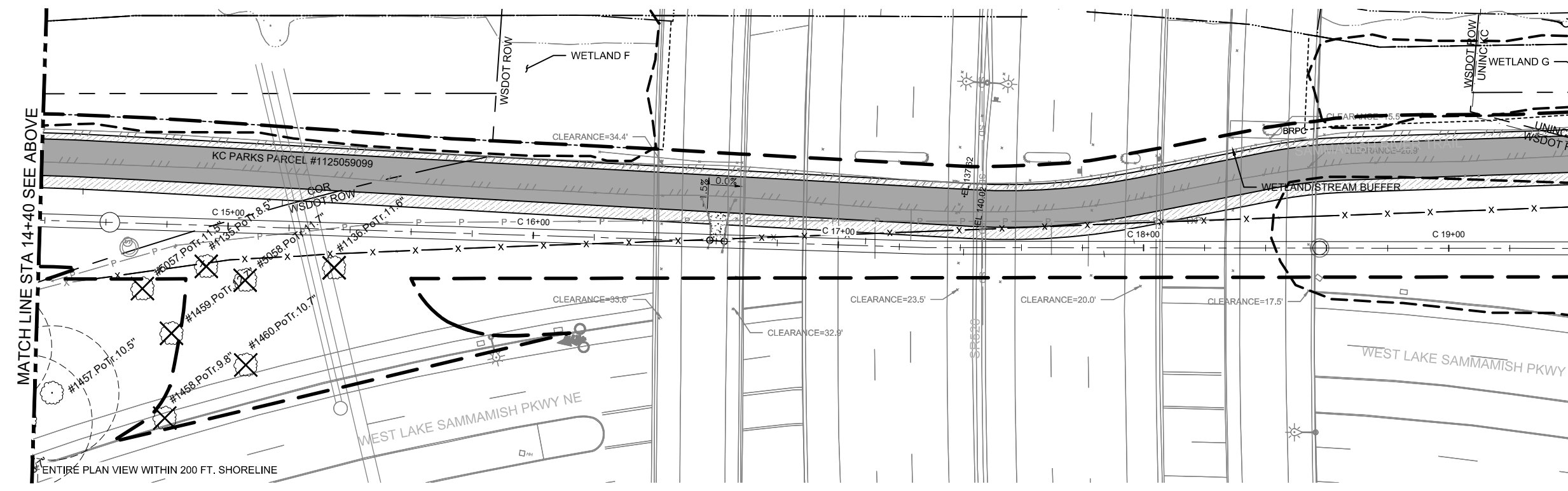
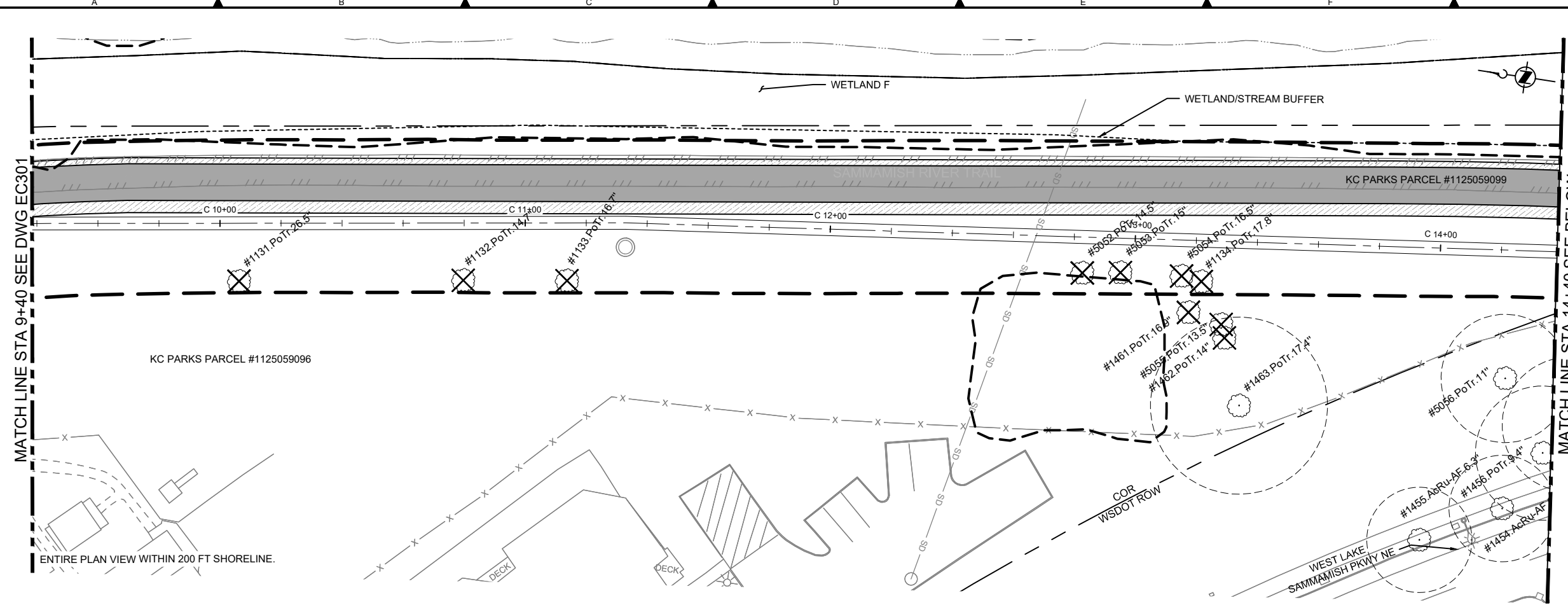
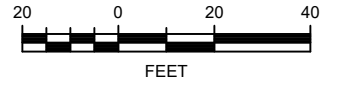


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DEPARTMENT OF NATURAL RESOURCES & PARKS  
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 LAKE SAMMAMISH INTERCEPTOR PROJECT  
**CITY OF REDMOND**  
**SEGMENT 3**  
**TREE PRESERVATION PLAN**  
**STA 1+00 TO STA 9+40**

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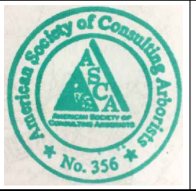
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**URBAN FORESTRY SERVICES, INC.**  
 15119 McLean Road  
 Mount Vernon, WA 98273

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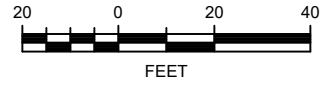
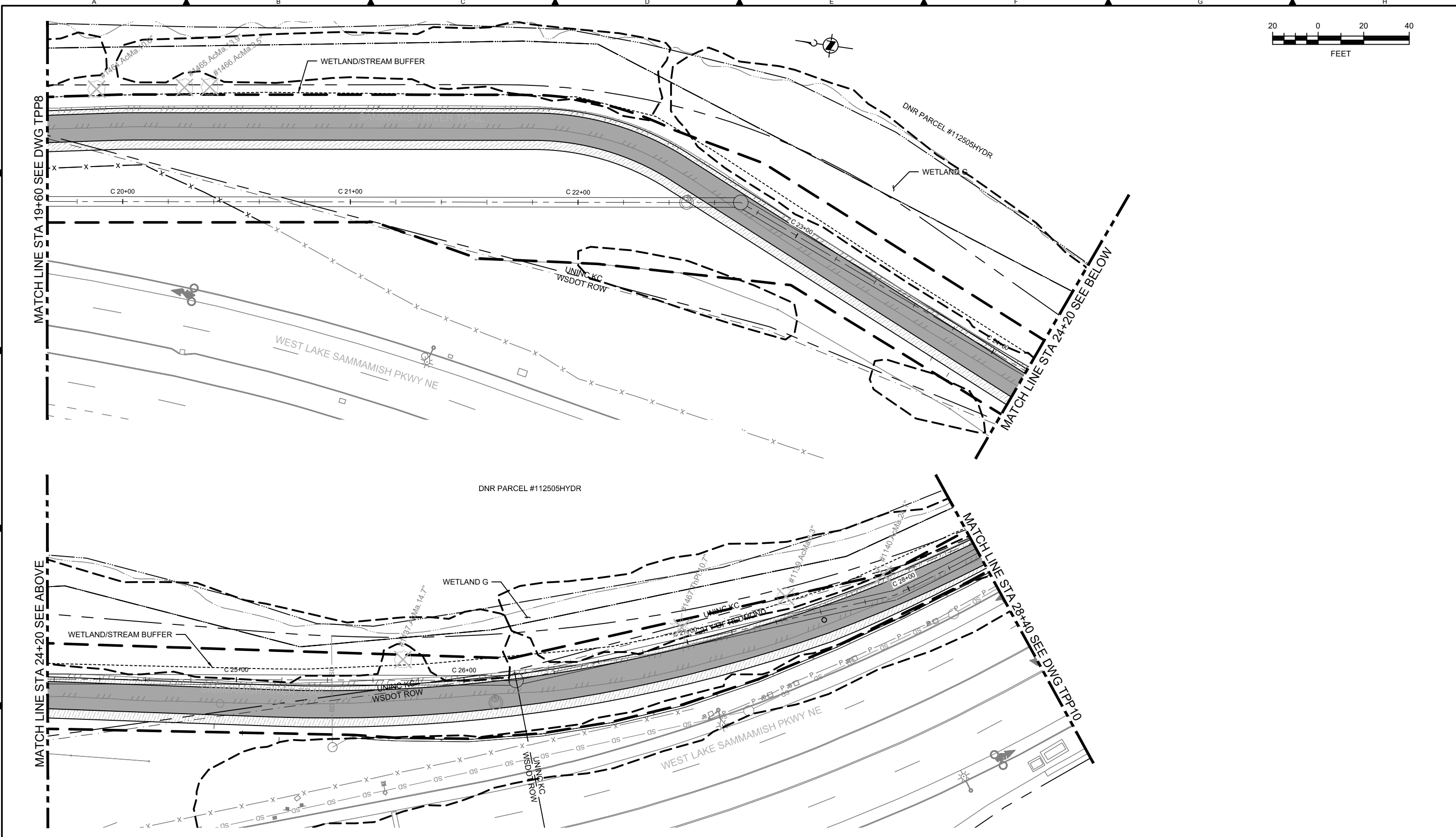
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 LAKE HILLS TRUNK AND NORTHWEST  
 LAKE SAMMAMISH INTERCEPTOR PROJECT  
**CITY OF REDMOND**  
**SEGMENT 3**  
**TREE PRESERVATION PLAN**  
**STA 9+40 TO STA 19+60**

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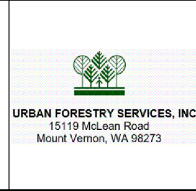
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 IMAGES: Doc.jpg



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NO	REVISION DESCRIPTION	BY	APVD	DATE



**PERMIT REVIEW**

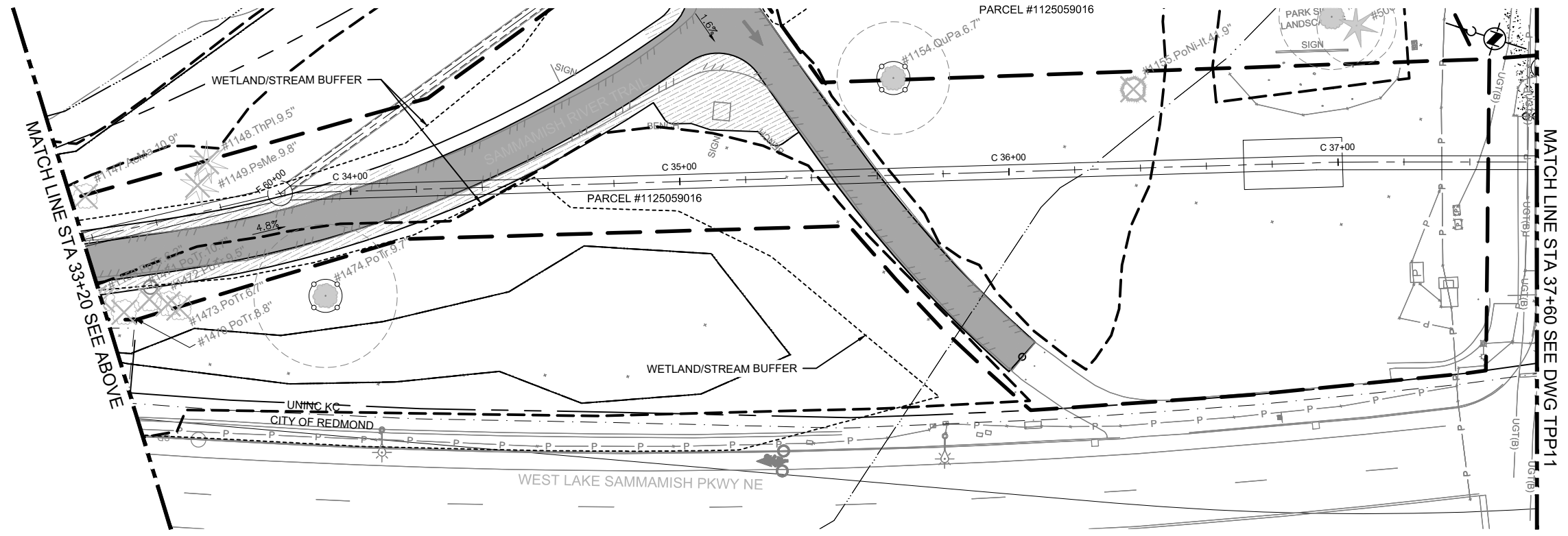
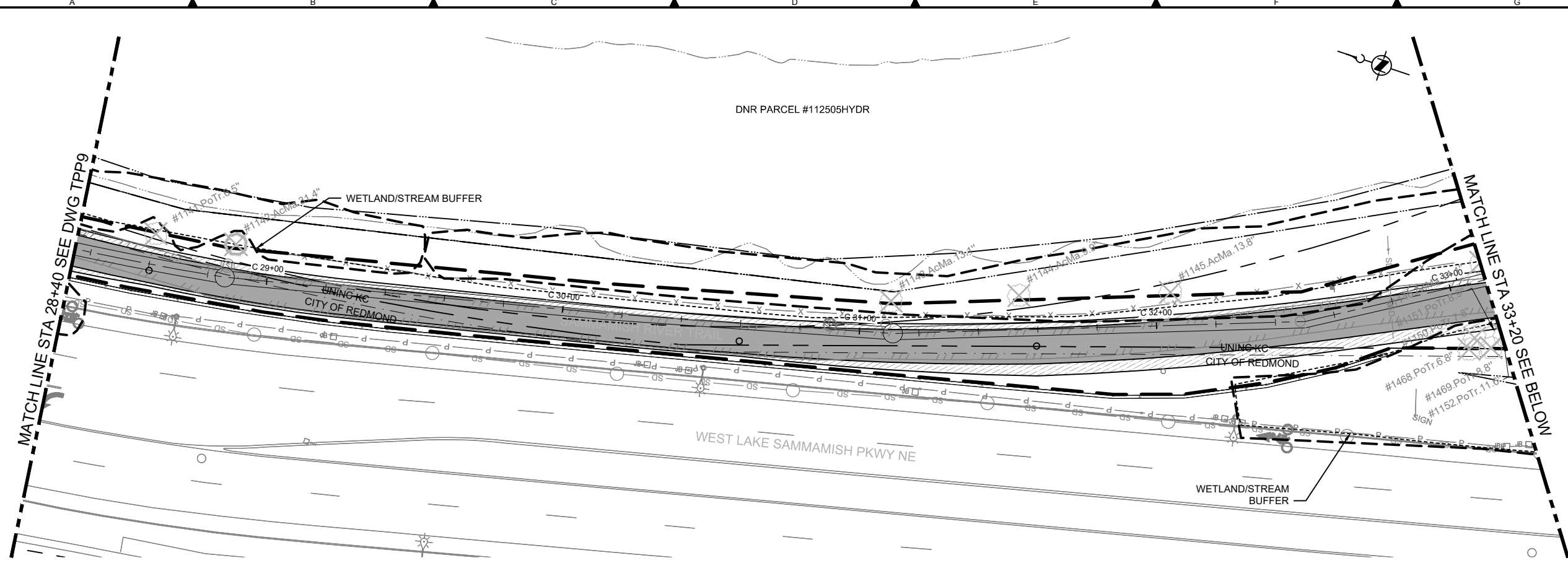
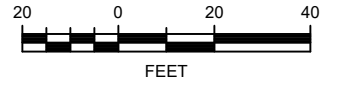


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PROJECT ACCEPTANCE:	CONTRACT NO.:
XXX	E00335E14



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 WASTEWATER TREATMENT DIVISION  
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 LAKE SAMMAMISH INTERCEPTOR PROJECT  
**CITY OF REDMOND**  
**SEGMENT 3**  
**TREE PRESERVATION PLAN**  
**STA 19+60 TO STA 28+40**

DCN:	DATE:
	March 2019
PROJECT FILE NO.:	DRAWING NO.:
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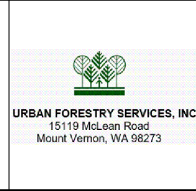


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NO	REVISION DESCRIPTION	BY	APVD	DATE



**PERMIT REVIEW**



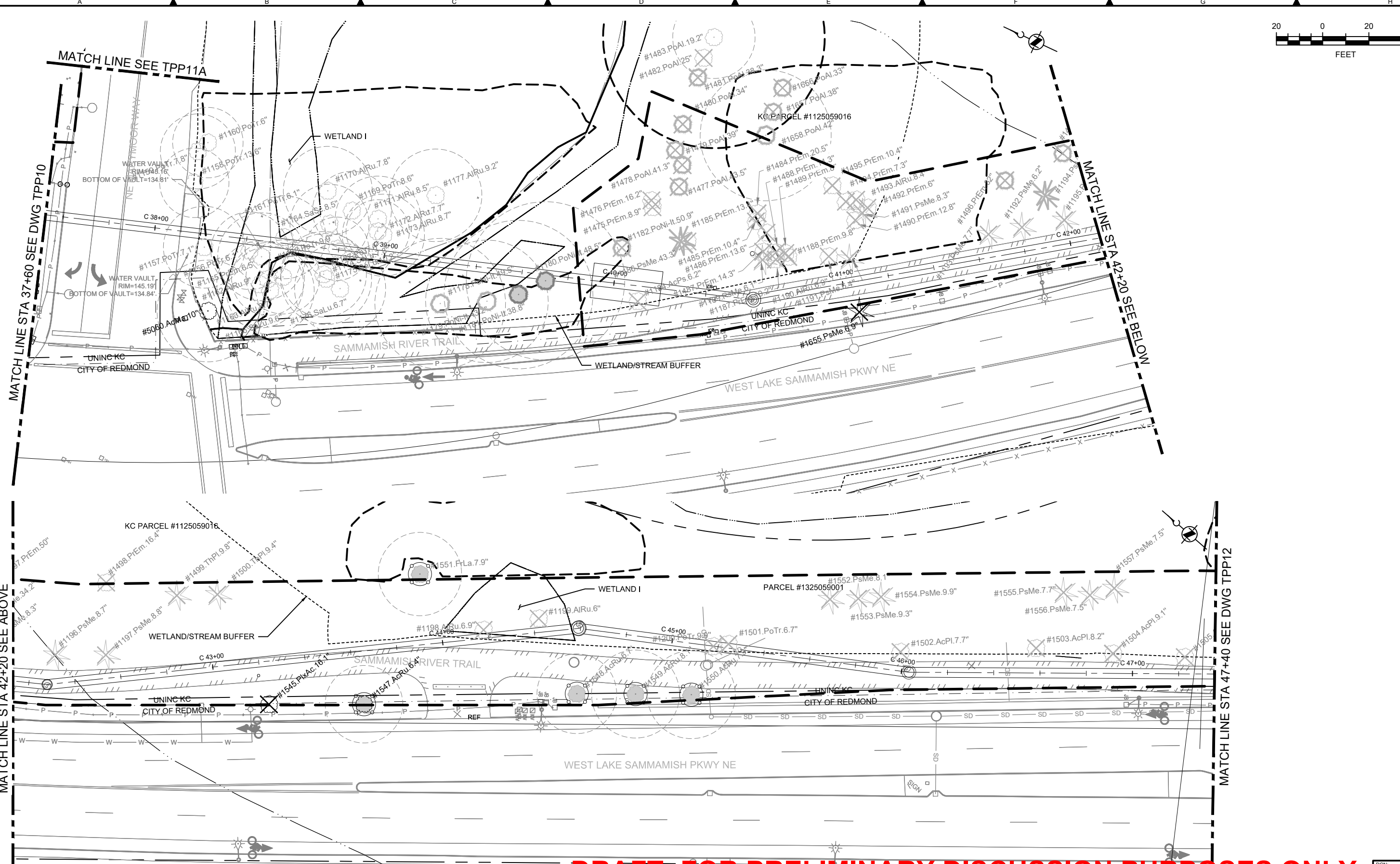
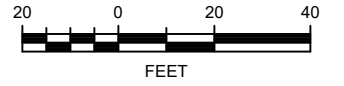
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PROJECT ACCEPTANCE:

SCALE:  
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REFERENCE 1"  
FACILITY NUMBER:  
CONTRACT NO:



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LAKE SAMMAMISH INTERCEPTOR PROJECT  
**CITY OF REDMOND**  
SEGMENT 3  
**TREE PRESERVATION PLAN**  
STA 28+40 TO STA 37+60

DCN:	DATE:
	March 2019
PROJECT FILE NO:	
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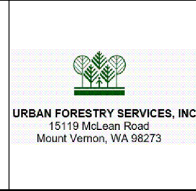


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NO	REVISION DESCRIPTION	BY	APVD	DATE



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DESIGNED/DRAWN:	SCALE:
PROJECT ENGINEER:	AS NOTED
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PROJECT ACCEPTANCE:	CONTRACT NO:
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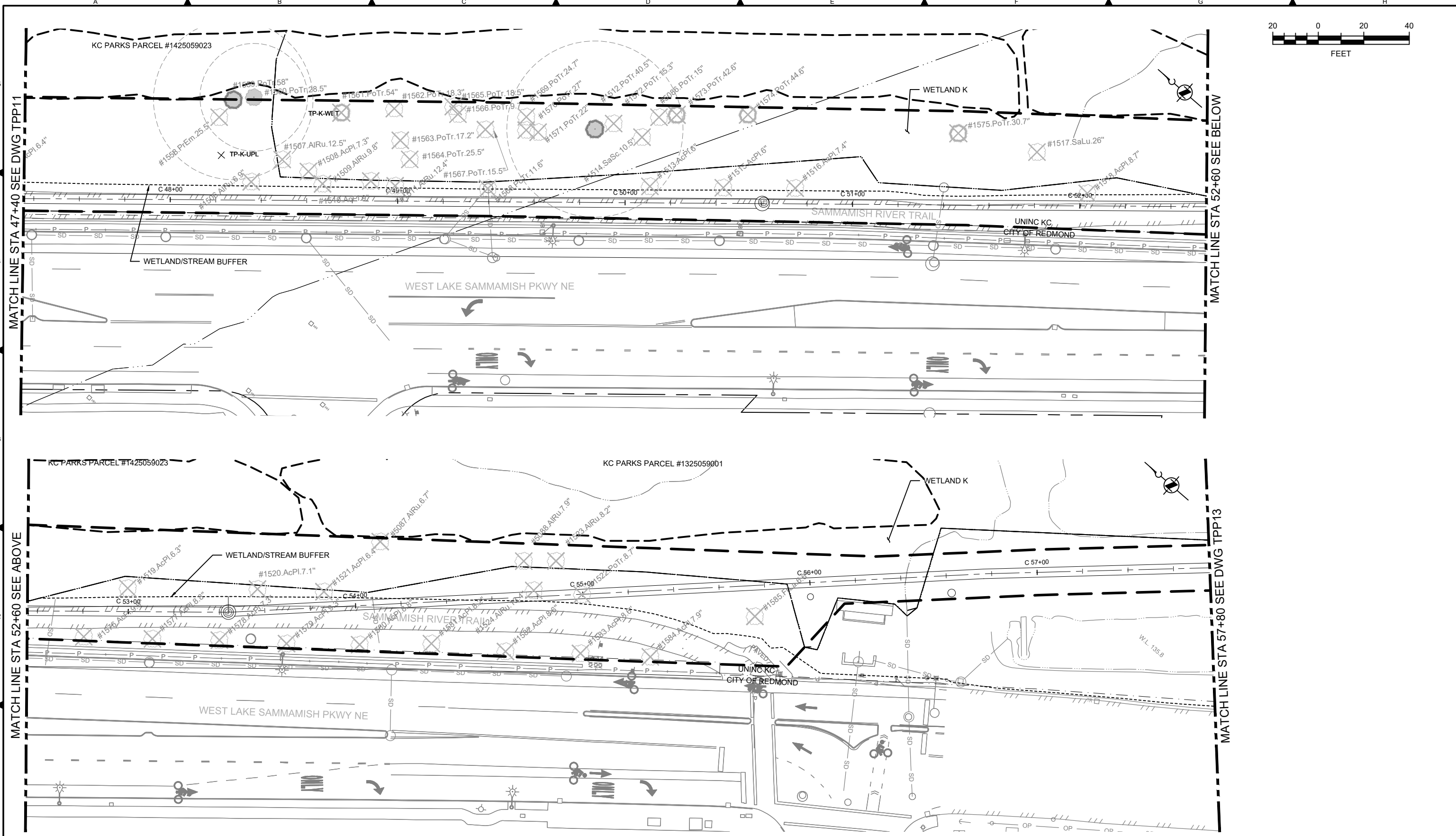
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 LAKE SAMMAMISH INTERCEPTOR PROJECT  
**CITY OF REDMOND**  
**SEGMENT 3**  
**TREE PRESERVATION PLAN**  
**STA 37+60 TO STA 47+40**

DCN:	DATE:
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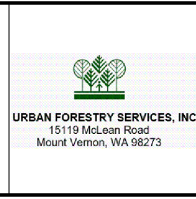
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DESIGN APPROVAL:	0 REFERENCE 1"
PROJECT ACCEPTANCE:	FACILITY NUMBER:
XXX	XXX
XXX	CONTRACT NO:
	E00335E14

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**TREE PRESERVATION PLAN**  
**STA 47+40 TO STA 57+80**

DCN:	DATE:
	March 2019
PROJECT FILE NO:	
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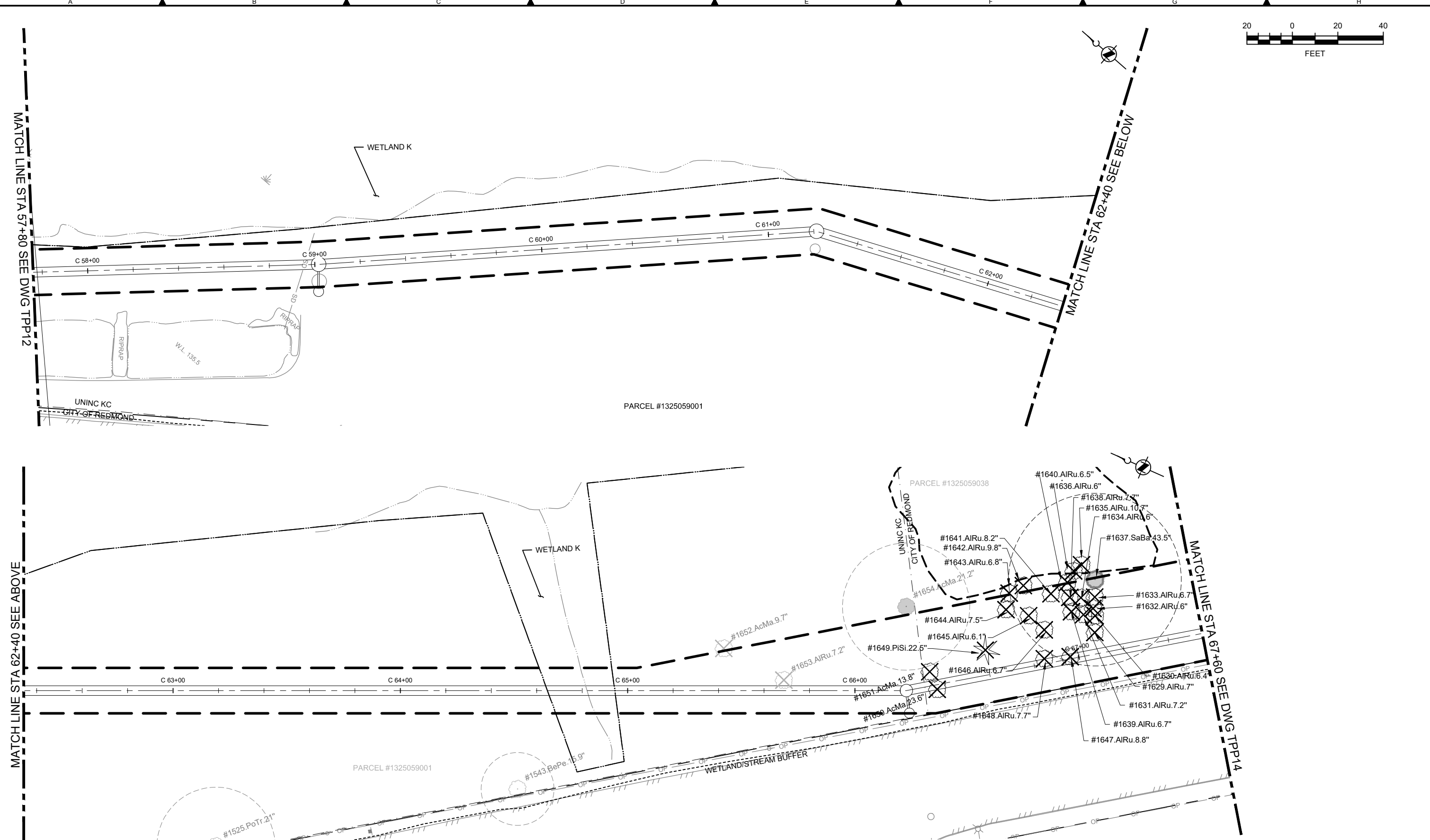
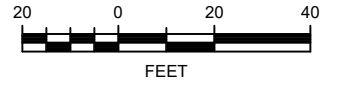
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MATCH LINE STA 57+80 SEE DWG TPP12

MATCH LINE STA 62+40 SEE ABOVE

MATCH LINE STA 62+40 SEE BELOW

MATCH LINE STA 67+60 SEE DWG TPP14



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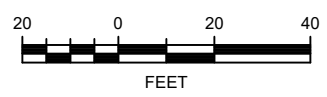
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 DESIGN APPROVAL: FACILITY NUMBER: XXX  
 PROJECT ACCEPTANCE: CONTRACT NO: E00335E14



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**TREE PRESERVATION PLAN**  
**STA 57+80 TO STA 67+60**

DCN:	DATE: March 2019
PROJECT FILE NO:	DRAWING NO: <b>TPP13</b>
SHT NO / TOTAL	REV NO: <b>0</b>

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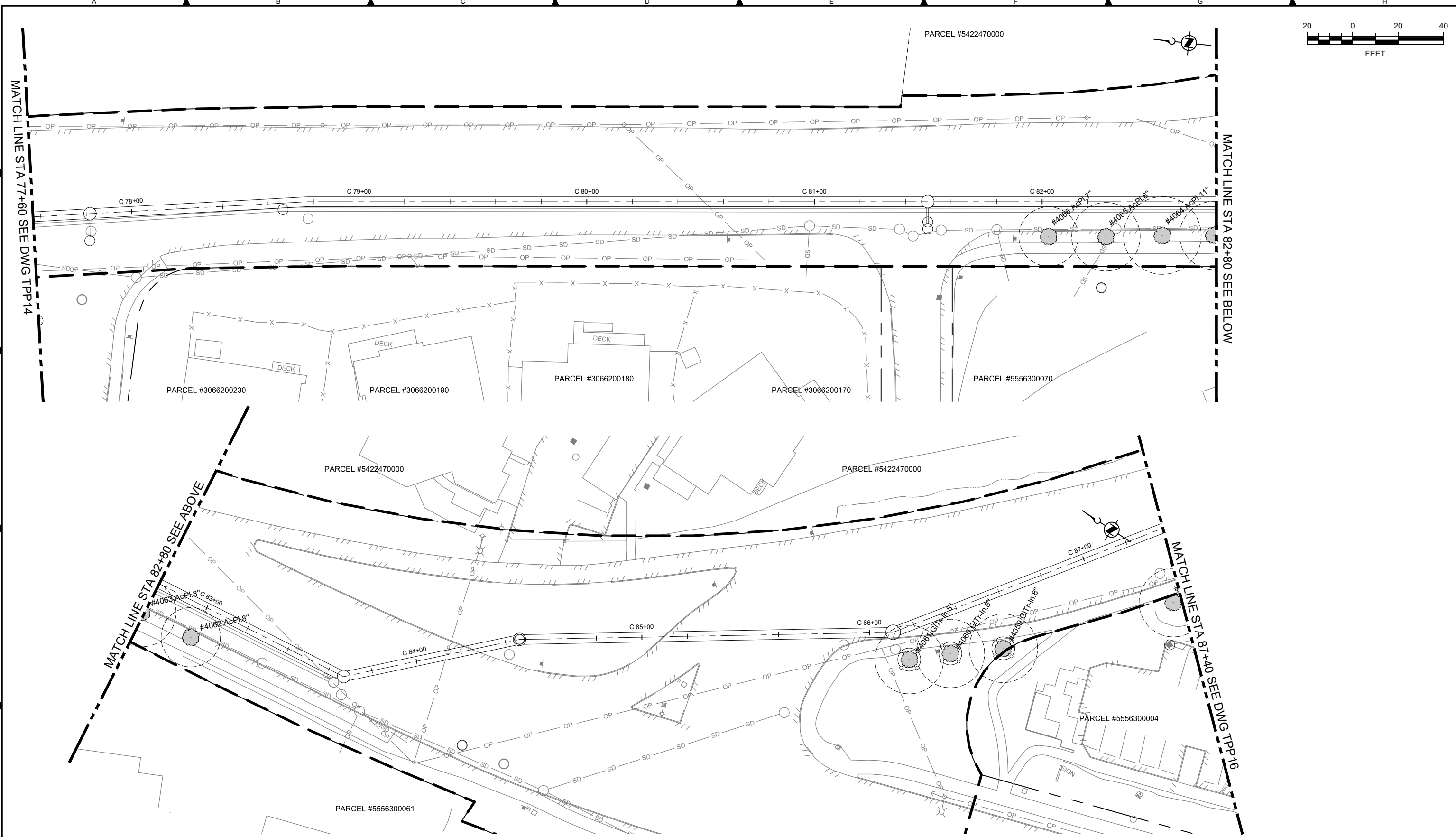
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 PROJECT ACCEPTANCE: XXX CONTRACT NO: E00335E14



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**CITY OF REDMOND**  
**SEGMENT 3**  
**TREE PRESERVATION PLAN**  
**STA 67+60 TO STA 77+60**

DCN:	DATE:	March 2019
PROJECT FILE NO:	DRAWING NO:	<b>TPP14</b>
SHT NO / TOTAL	REV NO:	0

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DESIGNED/DRAWN:  
 PROJECT ENGINEER:  
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 PROJECT ACCEPTANCE:

SCALE:  
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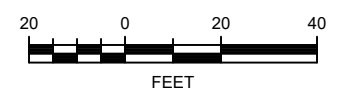
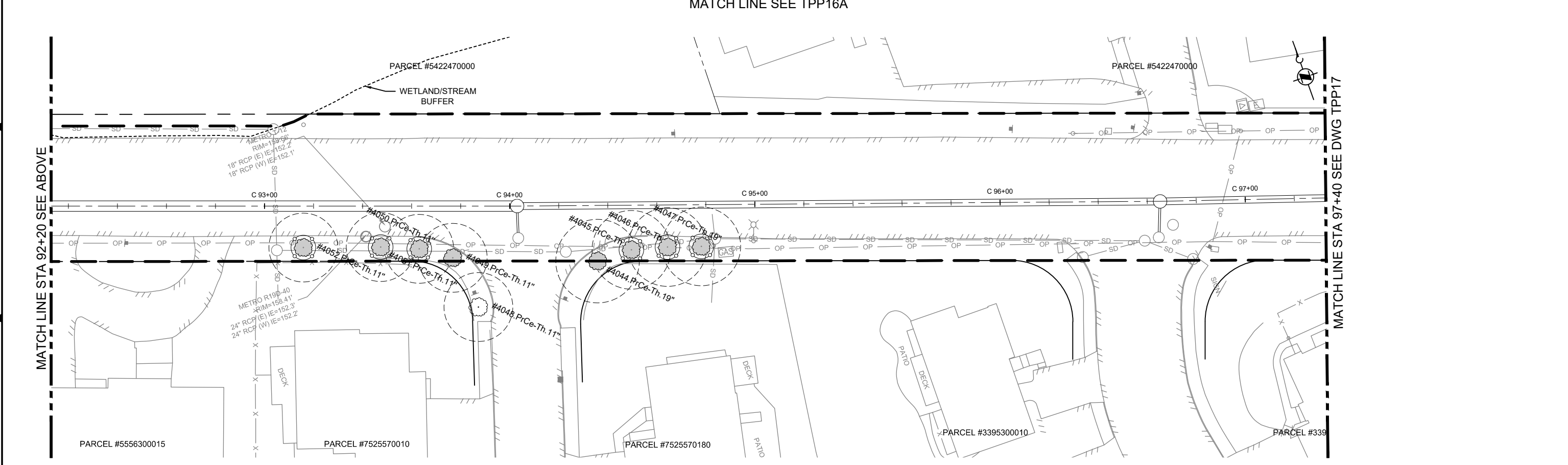
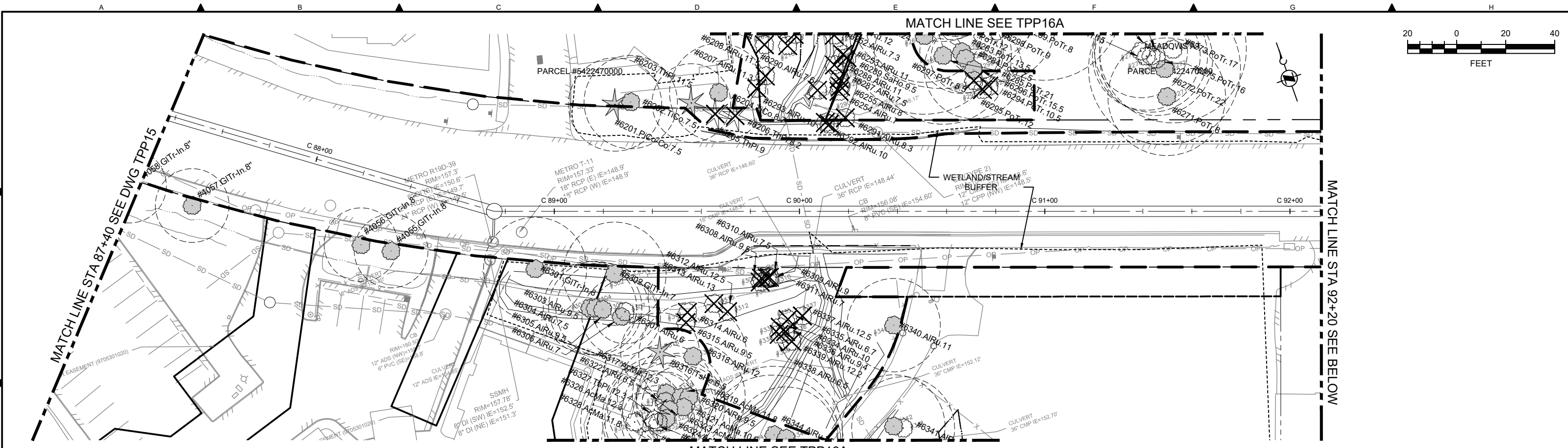
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 WASTEWATER TREATMENT DIVISION  
 LAKE HILLS TRUNK AND NORTHWEST  
 LAKE SAMMAMISH INTERCEPTOR PROJECT  
**CITY OF REDMOND**  
**SEGMENT 3**  
**TREE PRESERVATION PLAN**  
**STA 77+60 TO STA 87+40**

DCN:	DATE:
	March 2019
PROJECT FILE NO:	
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SHT NO / TOTAL	REV NO: <b>0</b>

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DESIGNED/DRAWN:	SCALE:
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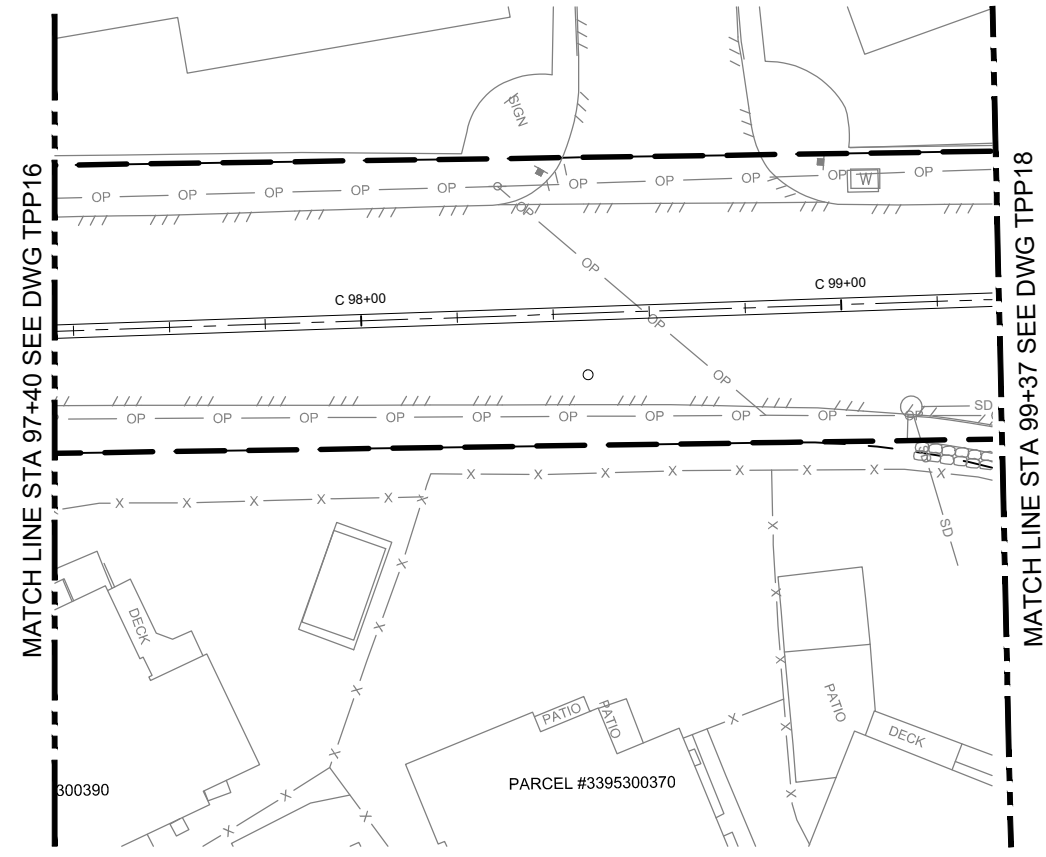
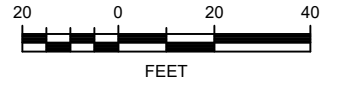


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**CITY OF REDMOND**  
**SEGMENT 3**  
**TREE PRESERVATION PLAN**  
**STA 87+40 TO STA 97+40**

DCN:	DATE:
	March 2019
PROJECT FILE NO:	
DRAWING NO:	
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SHT NO / TOTAL	REV NO:
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300390

PARCEL #3395300370

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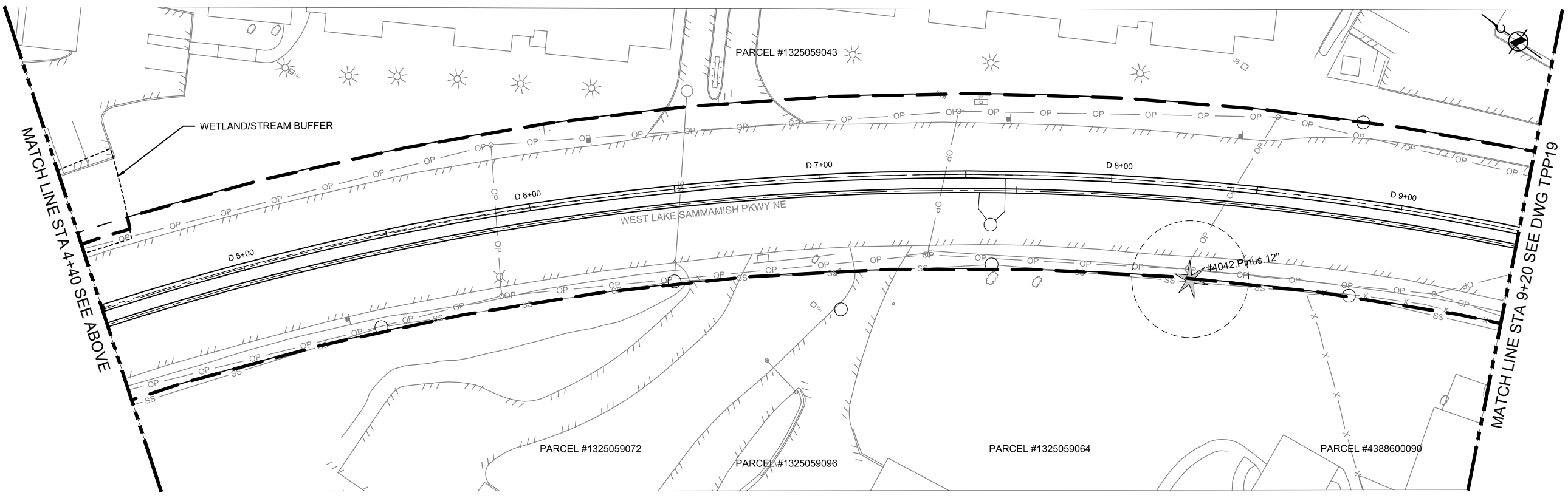
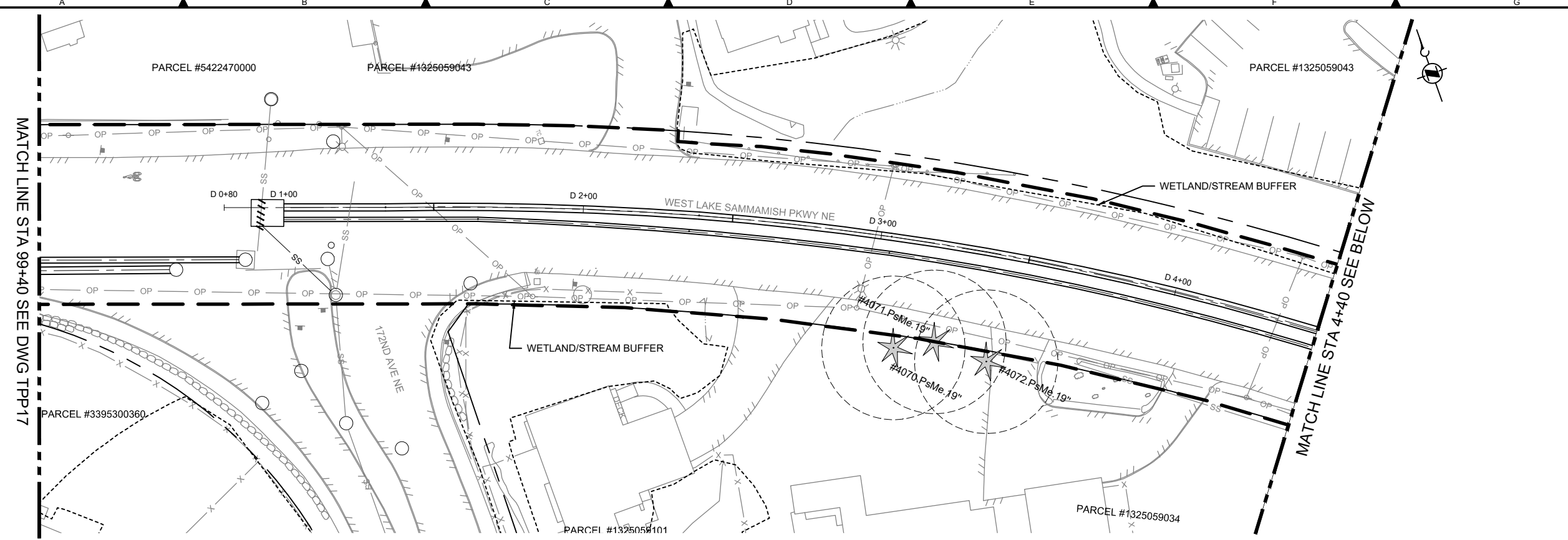
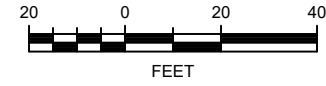
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**CITY OF REDMOND**  
**SEGMENT 3**  
**TREE PRESERVATION PLAN**  
**STA 97+40 TO STA 99+37**

DCN:	DATE: March 2019
PROJECT FILE NO:	DRAWING NO: <b>TPP17</b>
SHT NO / TOTAL	REV NO: <b>0</b>

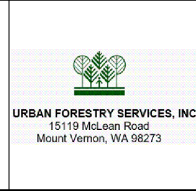
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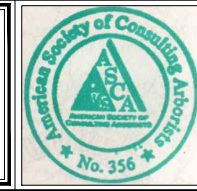
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PROJECT ENGINEER:	AS NOTED
D. APPLIGATE	0 REFERENCE 1"
DESIGN APPROVAL:	FACILITY NUMBER:
XXX	XXX
PROJECT ACCEPTANCE:	CONTRACT NO.:
XXX	E00335E14

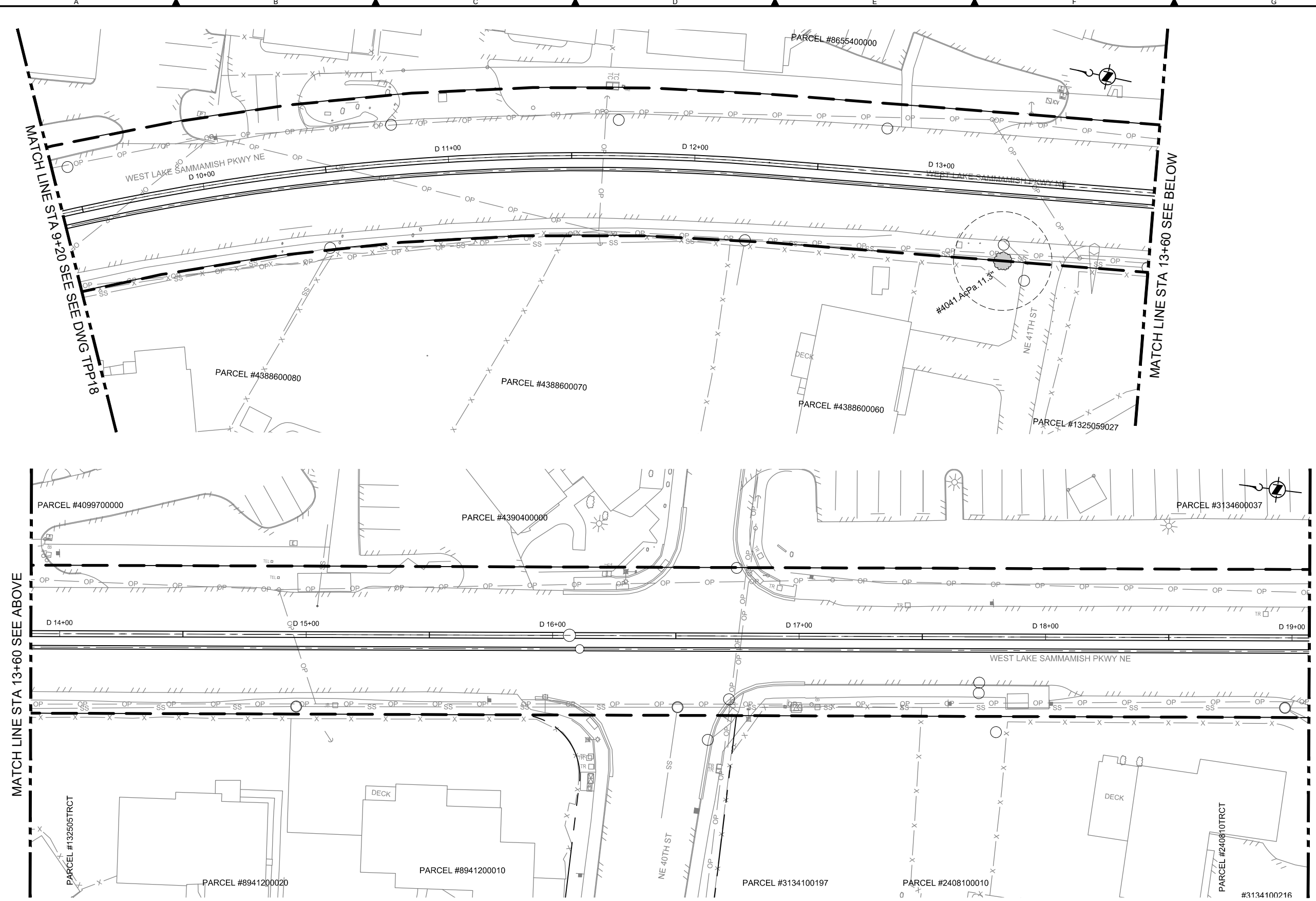
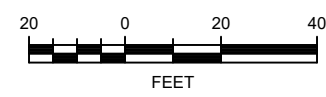


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 LAKE SAMMAMISH INTERCEPTOR PROJECT  
**CITY OF REDMOND**  
**SEGMENT 4**  
**TREE PRESERVATION PLAN**  
**STA 1+00 TO STA 9+20**

DCN:	DATE:
	March 2019
PROJECT FILE NO.:	DRAWING NO.:
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SHT NO. / TOTAL	REV NO.:
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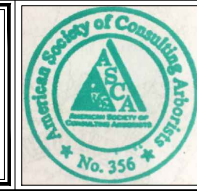
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 SCALE: 1" = 40'  
 PROJECT ENGINEER: D. APPLAGATE  
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 PROJECT ACCEPTANCE: XXX

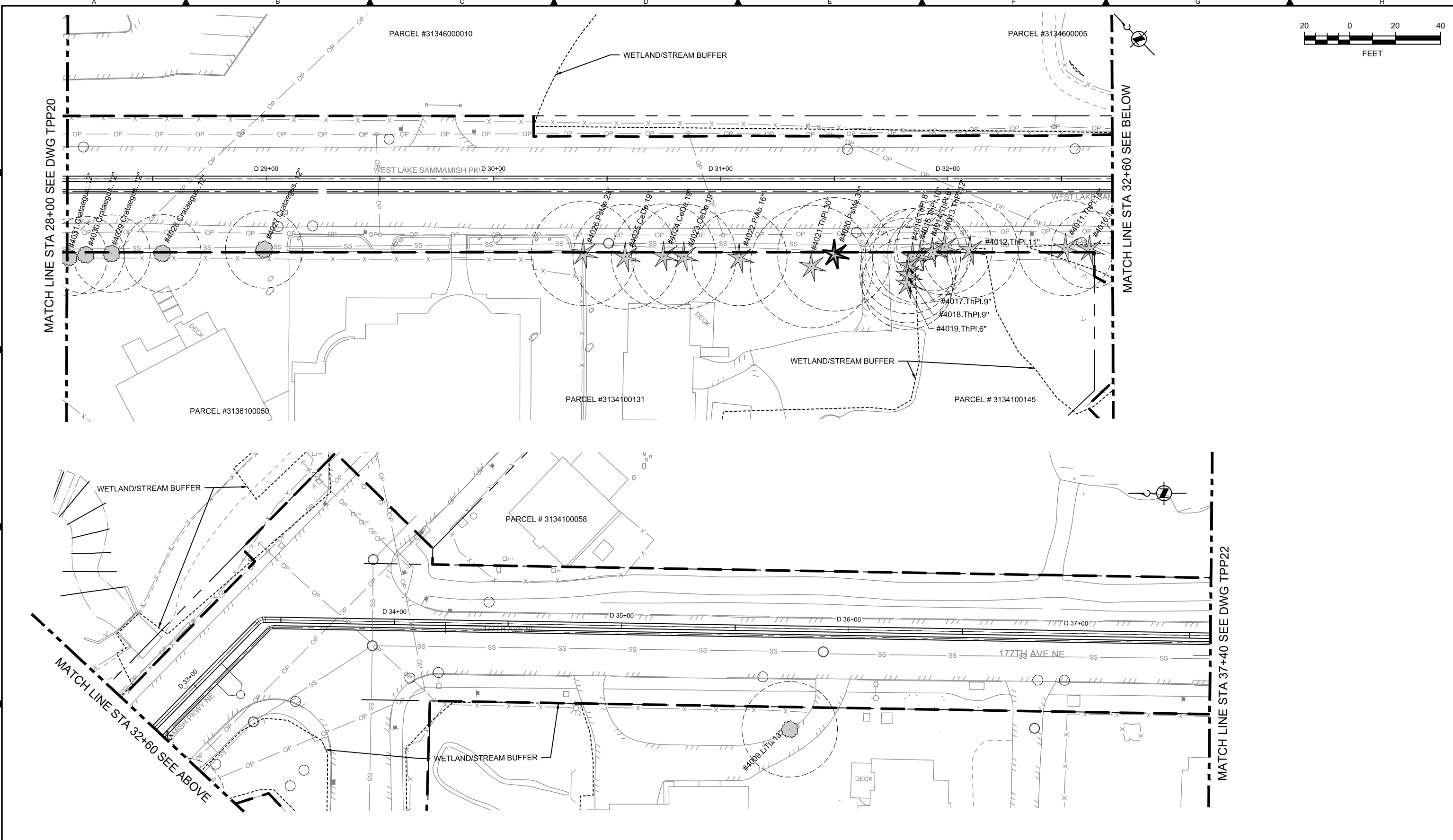


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**SEGMENT 4**  
**TREE PRESERVATION PLAN**  
**STA 9+20 TO STA 18+80**

DCN:	DATE: March 2019
PROJECT FILE NO:	DRAWING NO: <b>TPP19</b>
SHT NO / TOTAL	REV NO: <b>0</b>



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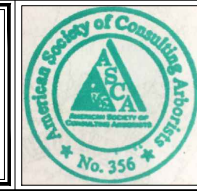
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NO	REVISION DESCRIPTION	BY	APVD	DATE



**URBAN FORESTRY SERVICES, INC.**  
 15119 McLean Road  
 Mount Vernon, WA 98273

**PERMIT REVIEW**



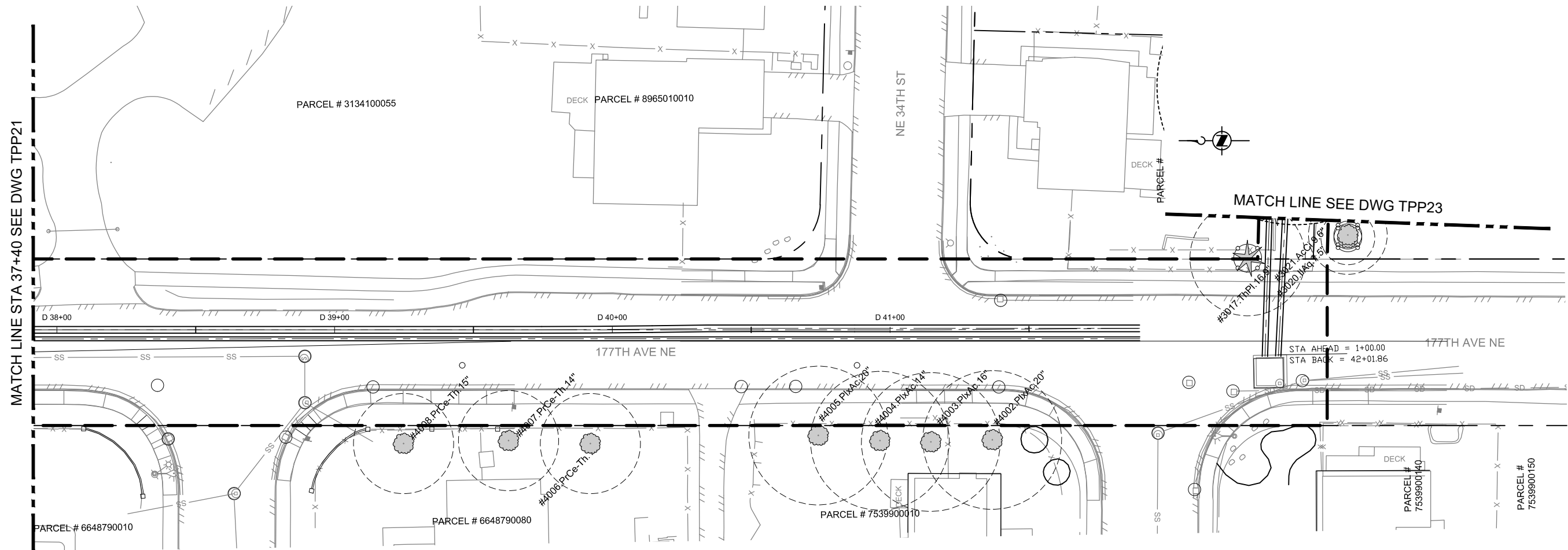
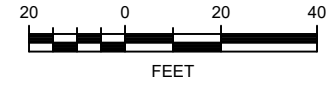
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 SCALE: 0 REFERENCE 1"  
 PROJECT ENGINEER: D. APPLAGATE  
 DESIGN APPROVAL: XXX  
 PROJECT ACCEPTANCE: XXX



DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 LAKE HILLS TRUNK AND NORTHWEST  
 LAKE SAMMAMISH INTERCEPTOR PROJECT  
**CITY OF REDMOND**  
**SEGMENT 4**  
**TREE PRESERVATION PLAN**  
**STA 28+00 TO STA 37+40**

DCN:	DATE: March 2019
PROJECT FILE NO:	DRAWING NO: <b>TPP21</b>
SHT NO / TOTAL	REV NO: <b>0</b>

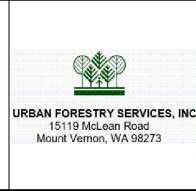
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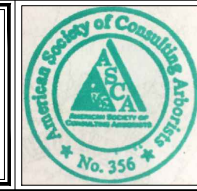
CALL 24 HOURS BEFORE YOU DIG: 811

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NO	REVISION DESCRIPTION	BY	APVD	DATE



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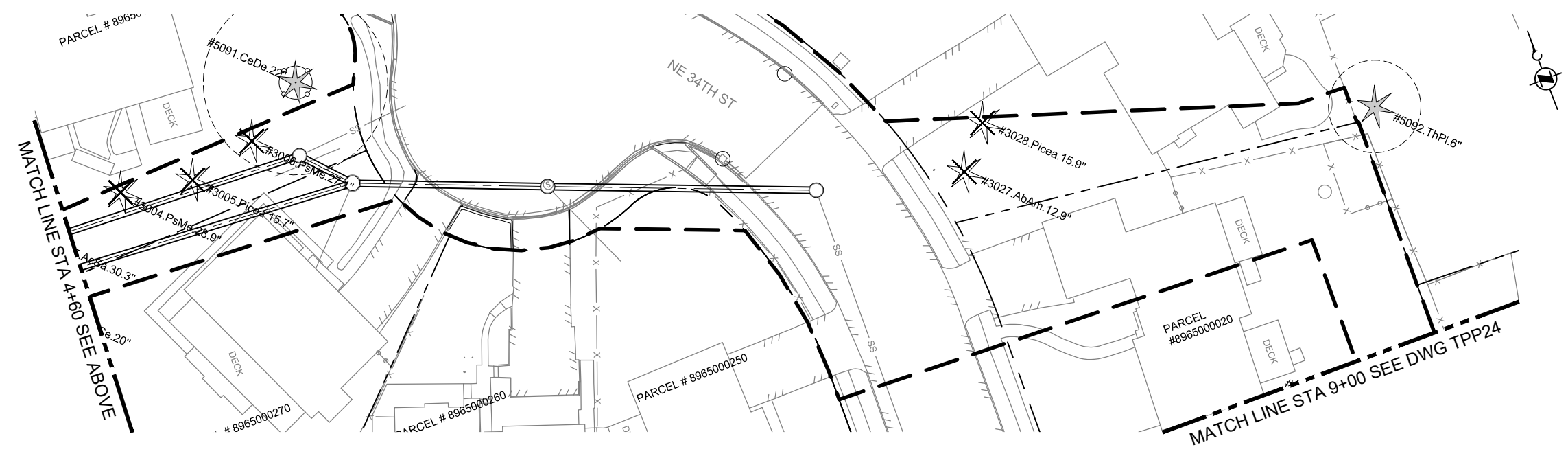
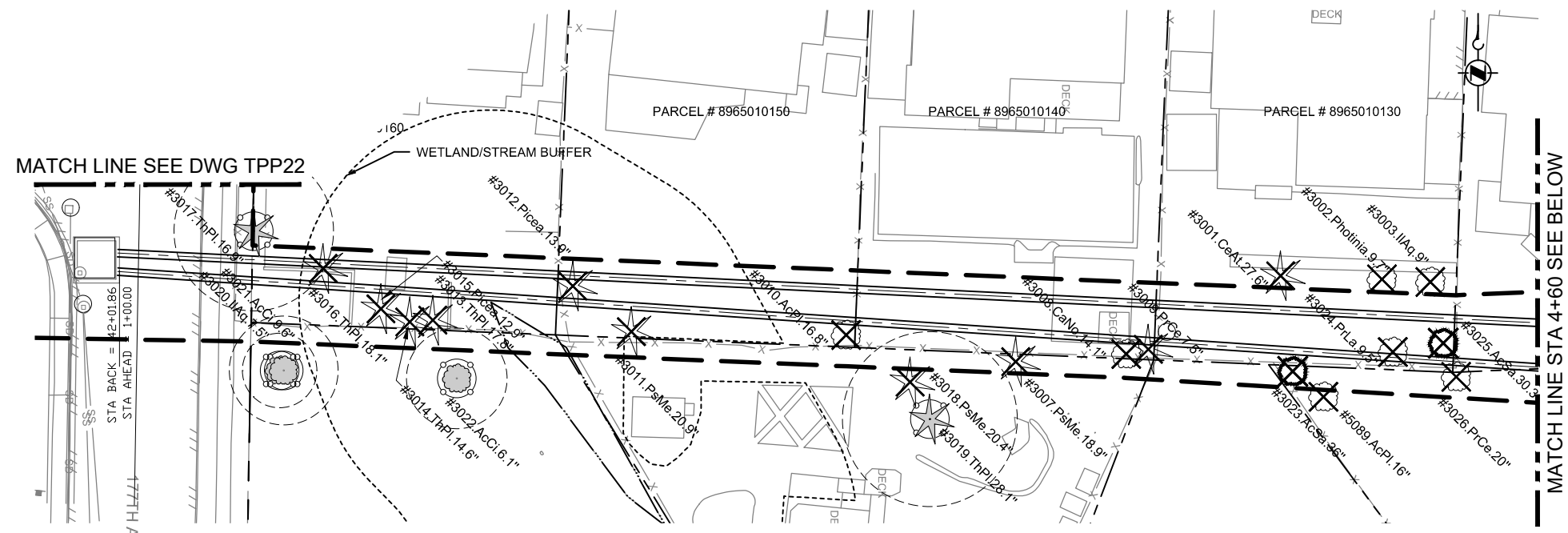
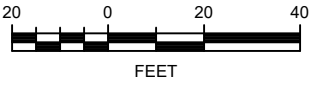
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 PROJECT ENGINEER:  
 D. APPLIGATE  
 DESIGN APPROVAL:  
 XXX  
 PROJECT ACCEPTANCE:  
 XXX

SCALE:  
 AS NOTED  
 REFERENCE 1"  
 FACILITY NUMBER:  
 XXX  
 CONTRACT NO:  
 E00335E14



DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 LAKE HILLS TRUNK AND NORTHWEST  
 LAKE SAMMAMISH INTERCEPTOR PROJECT  
**CITY OF REDMOND**  
**SEGMENT 4**  
**TREE PRESERVATION PLAN**  
**STA 37+40 TO STA 42+76.97**

DCN:	DATE:	March 2019
PROJECT FILE NO:	DRAWING NO:	<b>TPP22</b>
SHT NO / TOTAL	REV NO:	<b>0</b>



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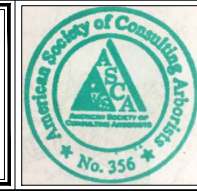
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NO	REVISION DESCRIPTION	BY	APVD	DATE



URBAN FORESTRY SERVICES, INC.  
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 Mount Vernon, WA 98273

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REVIEW**



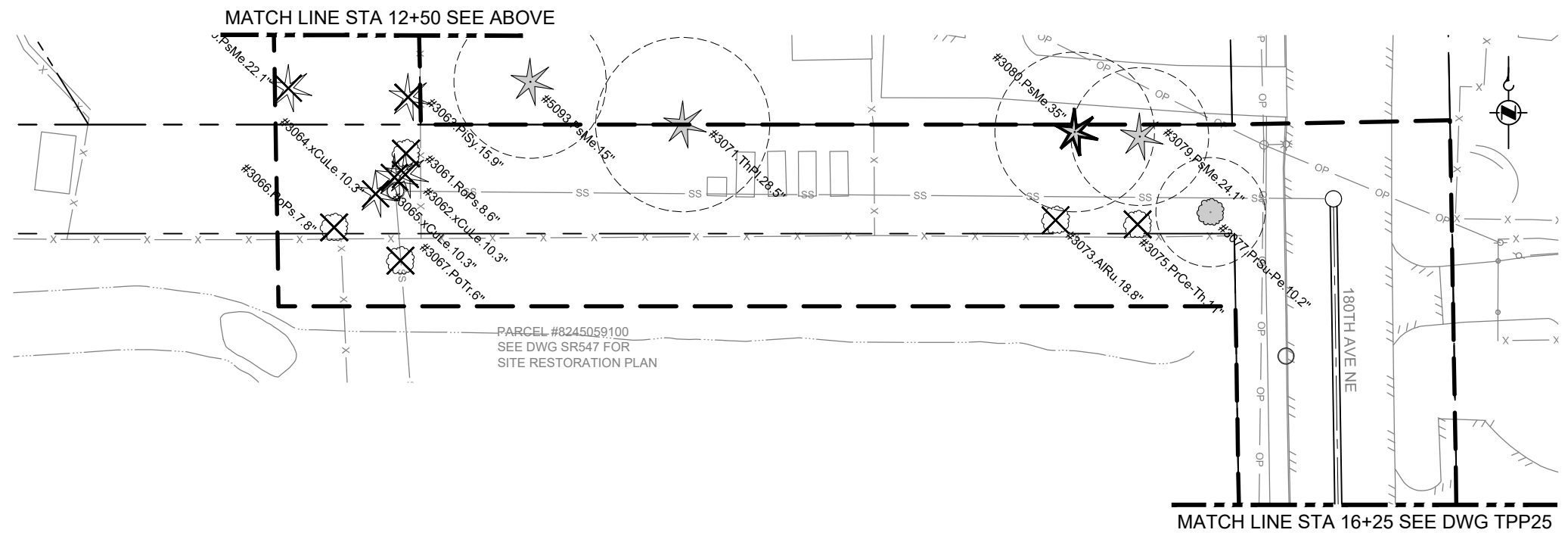
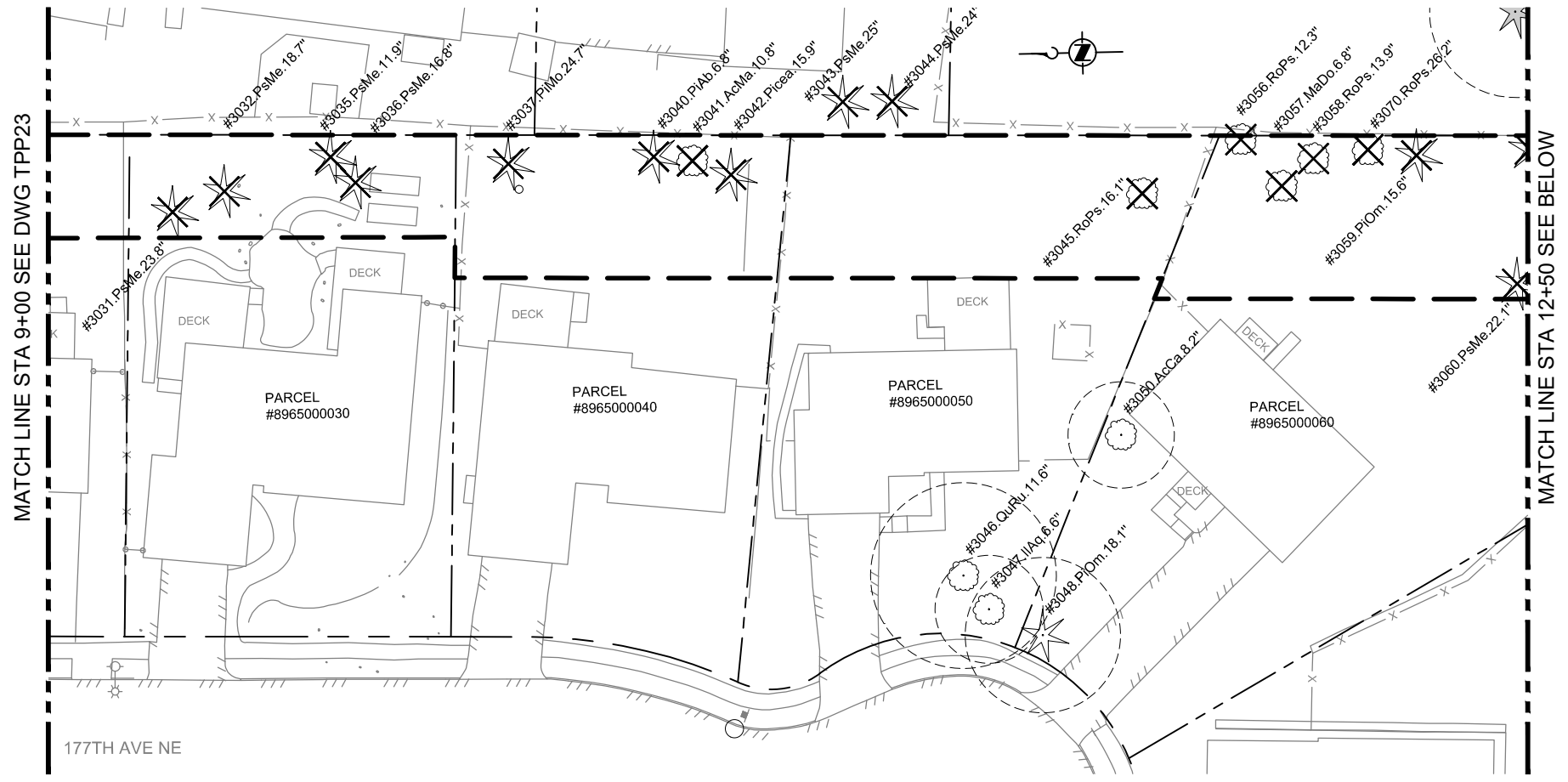
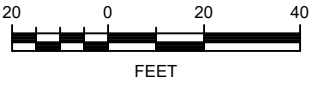
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 SCALE: AS NOTED  
 PROJECT ENGINEER: 0 REFERENCE 1"  
 D. APPLIGATE  
 DESIGN APPROVAL: XXX FACILITY NUMBER: XXX  
 PROJECT ACCEPTANCE: XXX CONTRACT NO: E00335E14



DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 LAKE HILLS TRUNK AND NORTHWEST  
 LAKE SAMMAMISH INTERCEPTOR PROJECT  
**CITY OF REDMOND**  
**SEGMENT 5**  
**TREE PRESERVATION PLAN**  
**STA 1+00 TO STA 9+00**

DCN:	DATE:
	March 2019
PROJECT FILE NO:	
DRAWING NO:	<b>TPP23</b>
SHT NO / TOTAL	REV NO: <b>0</b>

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CALL 24 HOURS BEFORE YOU DIG: 811

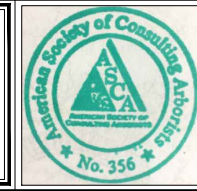
**DRAFT: FOR PRELIMINARY DISCUSSION PURPOSES ONLY**

NO	REVISION DESCRIPTION	BY	APVD	DATE



**URBAN FORESTRY SERVICES, INC.**  
 15119 McLean Road  
 Mount Vernon, WA 98273

**PERMIT REVIEW**



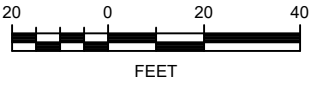
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 PROJECT ENGINEER: D. APPLIGATE  
 DESIGN APPROVAL: XXX  
 PROJECT ACCEPTANCE: XXX



DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 LAKE HILLS TRUNK AND NORTHWEST  
 LAKE SAMMAMISH INTERCEPTOR PROJECT  
**CITY OF REDMOND**  
**SEGMENT 5**  
**TREE PRESERVATION PLAN**  
**STA 9+00 TO STA 16+25**

DCN:	DATE: March 2019
PROJECT FILE NO:	DRAWING NO: <b>TPP24</b>
SHT NO / TOTAL	REV NO: <b>0</b>

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MATCH LINE STA 16+20 SEE DWG TPP24

MATCH LINE STA 21+80 SEE BELOW

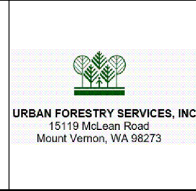
MATCH LINE STA 21+60 SEE ABOVE

MATCH LINE STA 27+00 SEE DWG TPP26

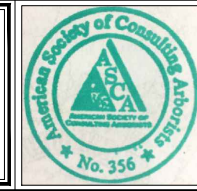
CALL 24 HOURS BEFORE YOU DIG: 811

**DRAFT: FOR PRELIMINARY DISCUSSION PURPOSES ONLY**

NO	REVISION DESCRIPTION	BY	APVD	DATE



**PERMIT REVIEW**



DESIGNED/DRAWN:  
PROJECT ENGINEER:  
DESIGN APPROVAL:  
PROJECT ACCEPTANCE:

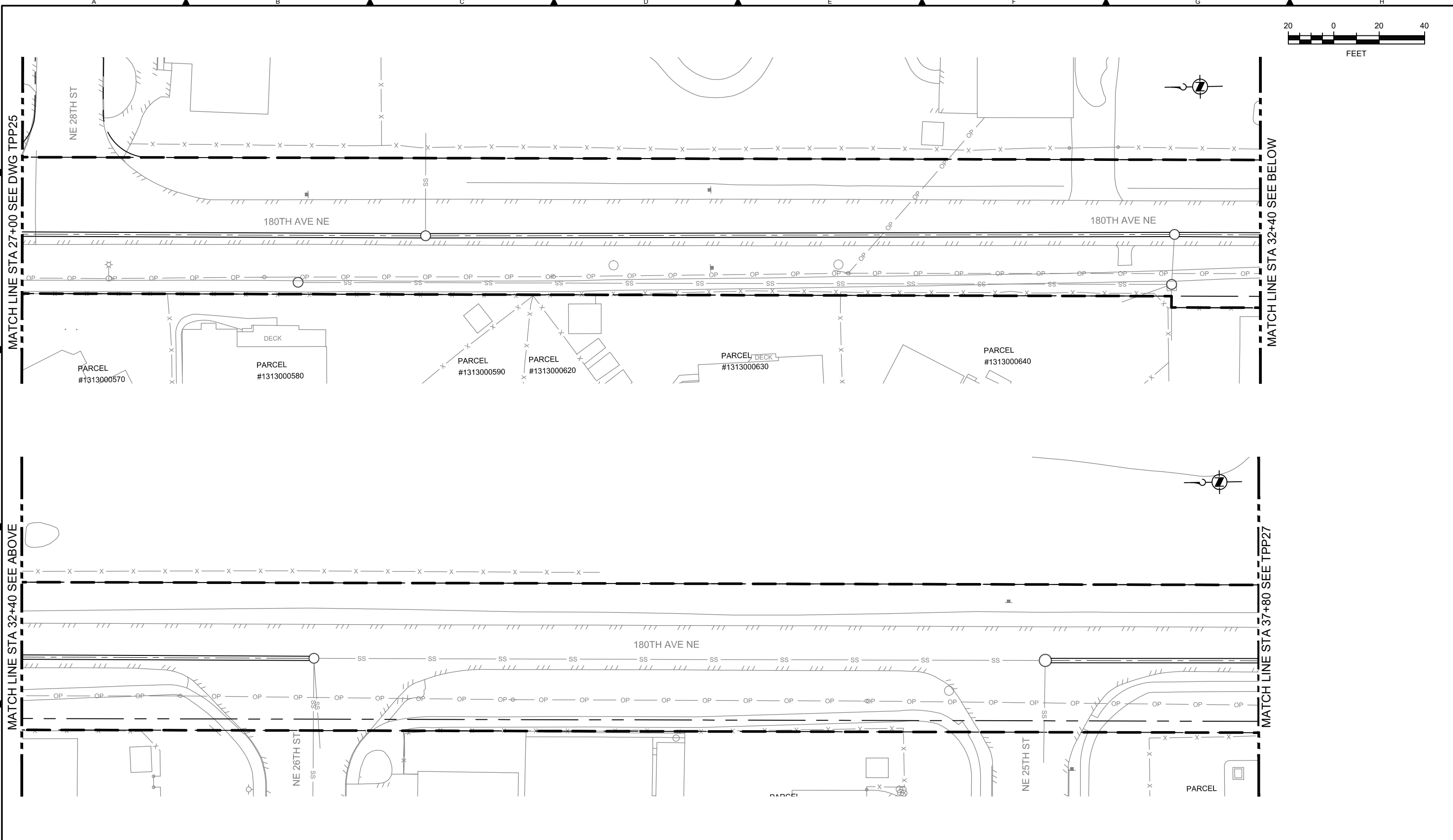
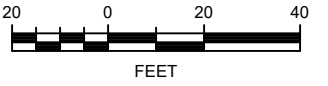
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CONTRACT NO:



DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 LAKE HILLS TRUNK AND NORTHWEST  
 LAKE SAMMAMISH INTERCEPTOR PROJECT  
**CITY OF REDMOND**  
**SEGMENT 5**  
**TREE PRESERVATION PLAN**  
**STA 16+25 TO STA 27+00**

DCN:	DATE:
	March 2019
PROJECT FILE NO:	
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SHT NO / TOTAL	REV NO: <b>0</b>

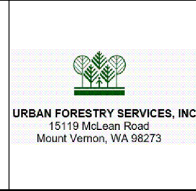
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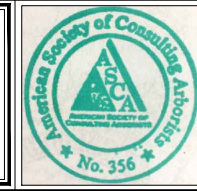
CALL 24 HOURS BEFORE YOU DIG: 811

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NO	REVISION DESCRIPTION	BY	APVD	DATE



**PERMIT REVIEW**



DESIGNED/DRAWN:  
PROJECT ENGINEER:  
D. APPLIGATE  
DESIGN APPROVAL:  
XXX  
PROJECT ACCEPTANCE:  
XXX

SCALE:  
AS NOTED  
0 REFERENCE 1"  
FACILITY NUMBER:  
XXX  
CONTRACT NO:  
E00335E14

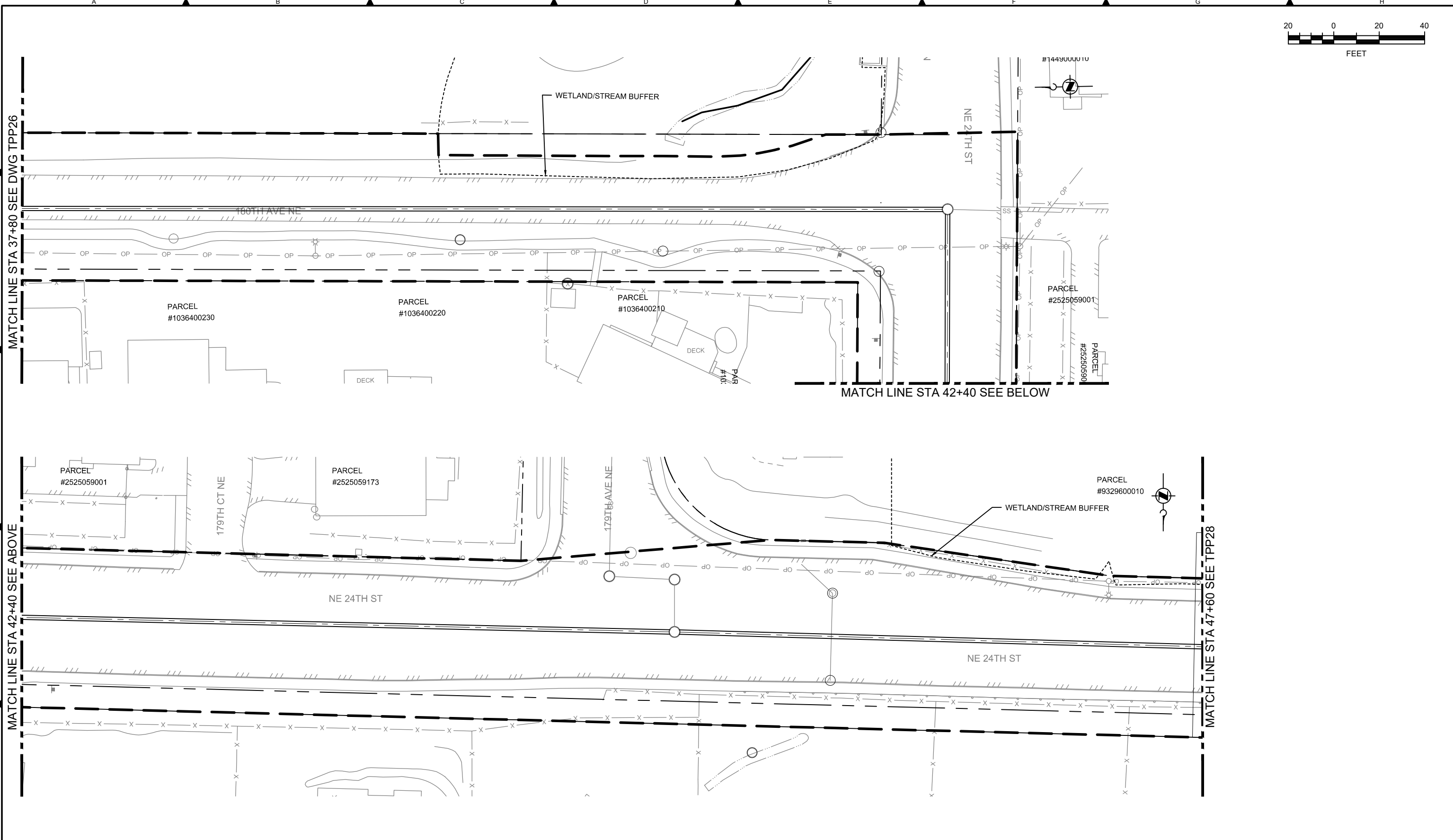
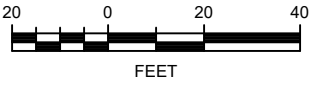


DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 LAKE HILLS TRUNK AND NORTHWEST  
 LAKE SAMMAMISH INTERCEPTOR PROJECT  
**CITY OF REDMOND**  
**SEGMENT 5**  
**TREE PRESERVATION PLAN**  
**STA 27+00 TO STA 37+80**

DCN:	DATE: March 2019
PROJECT FILE NO:	DRAWING NO: <b>TPP26</b>
SHT NO / TOTAL	REV NO: <b>0</b>



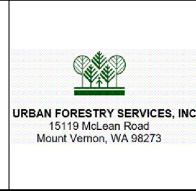
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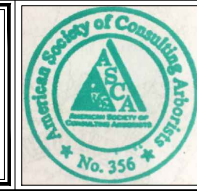
CALL 24 HOURS BEFORE YOU DIG: 811

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NO	REVISION DESCRIPTION	BY	APVD	DATE



**PERMIT REVIEW**



DESIGNED/DRAWN:	SCALE:
PROJECT ENGINEER:	AS NOTED
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DESIGN APPROVAL:	FACILITY NUMBER:
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PROJECT ACCEPTANCE:	CONTRACT NO.:
XXX	E00335E14

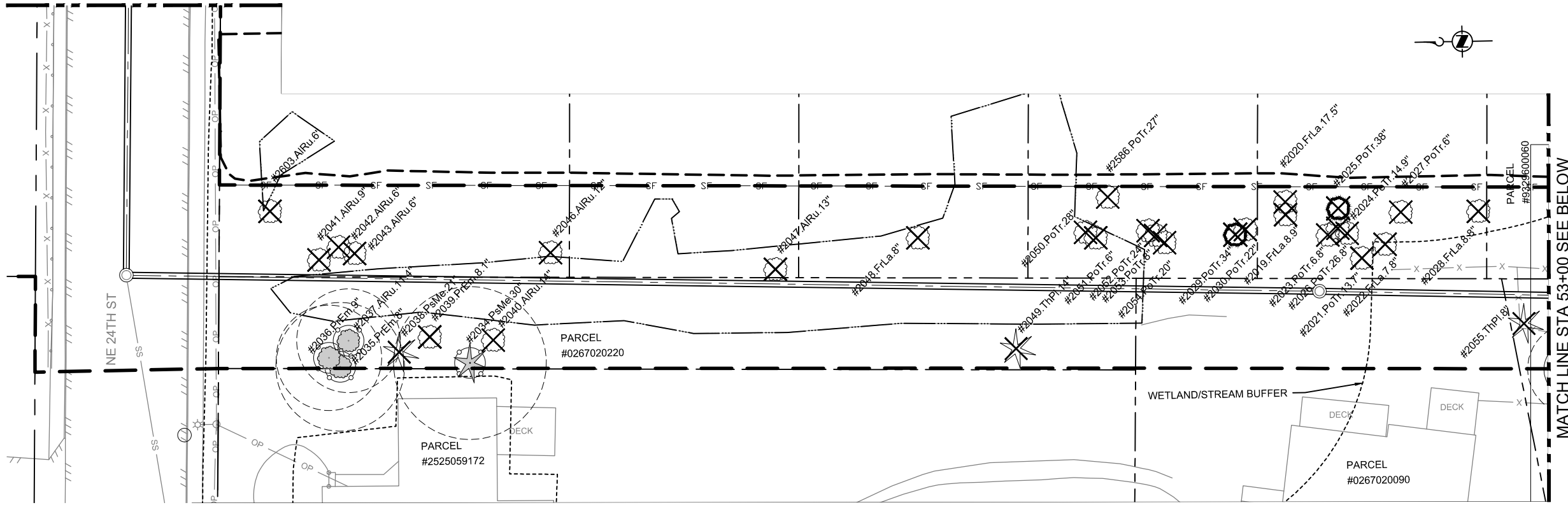
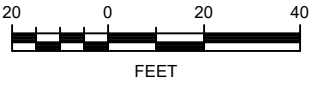


DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 LAKE HILLS TRUNK AND NORTHWEST  
 LAKE SAMMAMISH INTERCEPTOR PROJECT  
**CITY OF REDMOND**  
**SEGMENT 5**  
**TREE PRESERVATION PLAN**  
**STA 37+80 TO STA 47+60**

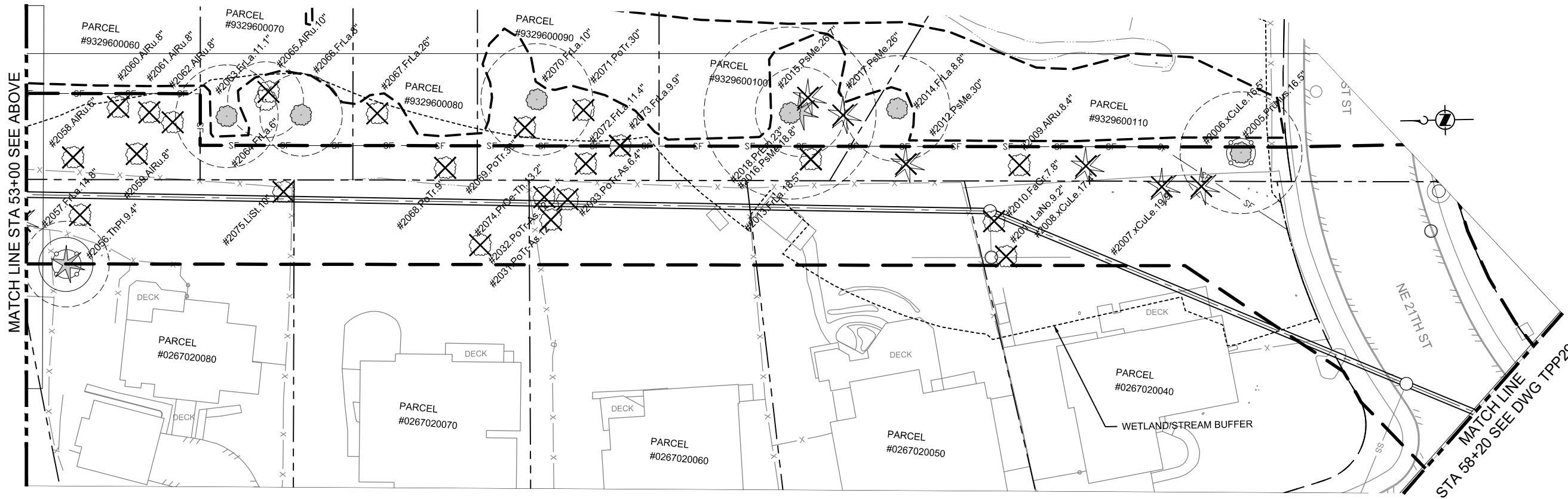
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MATCH LINE STA 47+60 SEE TPP27



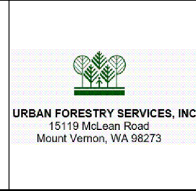
MATCH LINE STA 53+00 SEE BELOW



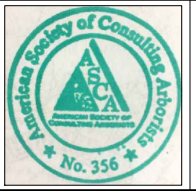
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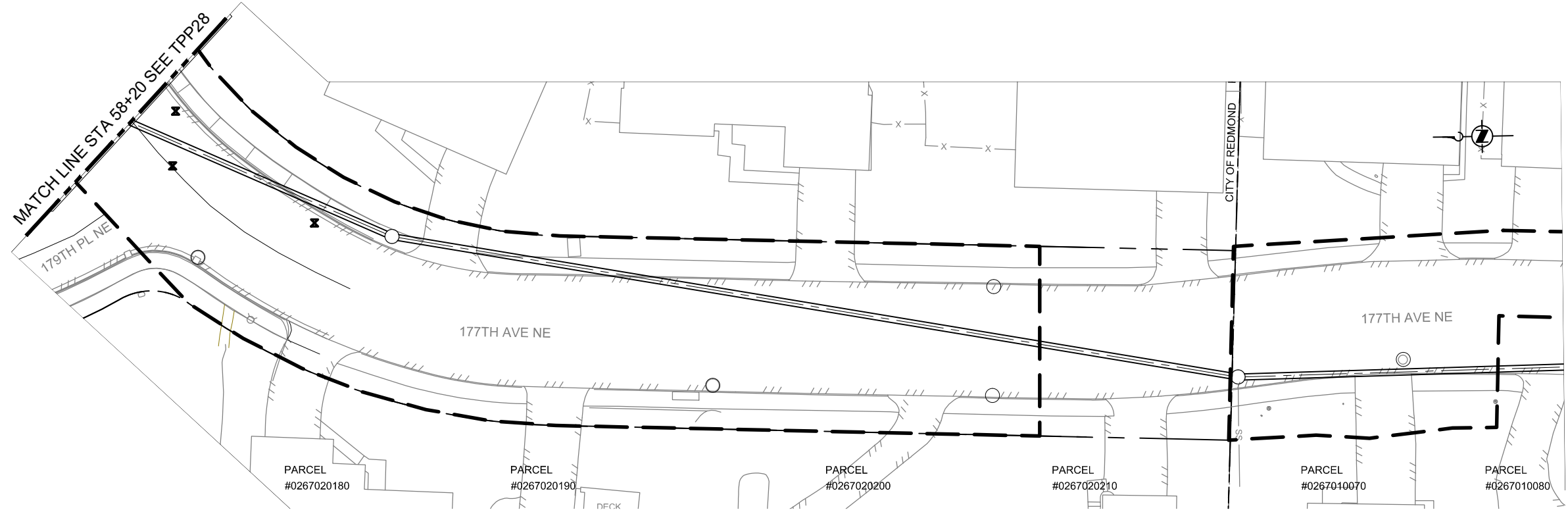
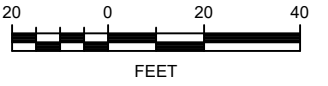


DESIGNED/DRAWN:	SCALE:
PROJECT ENGINEER:	AS NOTED
D. APPLIGATE	0 REFERENCE 1"
DESIGN APPROVAL:	FACILITY NUMBER:
XXX	XXX
PROJECT ACCEPTANCE:	CONTRACT NO:
XXX	E00335E14



DEPARTMENT OF NATURAL RESOURCES & PARKS  
 WASTEWATER TREATMENT DIVISION  
 LAKE HILLS TRUNK AND NORTHWEST  
 LAKE SAMMAMISH INTERCEPTOR PROJECT  
**CITY OF REDMOND**  
**SEGMENT 5**  
**TREE PRESERVATION PLAN**  
**STA 47+60 TO STA 58+20**

DCN:	DATE:
	March 2019
PROJECT FILE NO:	DRAWING NO:
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SHT NO / TOTAL	REV NO:
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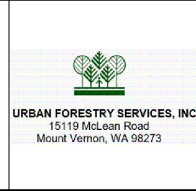


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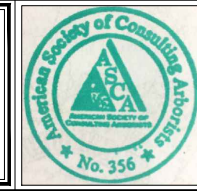
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DESIGNED/DRAWN:	SCALE:
PROJECT ENGINEER:	AS NOTED
D. APPLEGATE	0 REFERENCE 1"
DESIGN APPROVAL:	FACILITY NUMBER:
XXX	XXX
PROJECT ACCEPTANCE:	CONTRACT NO:
XXX	E00335E14



DEPARTMENT OF NATURAL RESOURCES & PARKS  
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 LAKE HILLS TRUNK AND NORTHWEST  
 LAKE SAMMAMISH INTERCEPTOR PROJECT  
**CITY OF REDMOND**  
**SEGMENT 5**  
**TREE PRESERVATION PLAN**  
**STA 58+20 TO STA 62+47.18**

DCN:
DATE:
March 2019
PROJECT FILE NO:
DRAWING NO:
<b>TPP29</b>
SHT NO / TOTAL
REV NO: <b>0</b>