



King County

**Capital Planning and Development Section
Parks CIP Unit**

East Lake Sammamish Trail – South Sammamish Segment A Preliminary Tree Preservation Plans January 14, 2015

Summary

One of King County Parks' commitments throughout the design and construction of the East Lake Sammamish Trail is to preserve significant trees whenever possible. Trees provide natural habitat for birds and wildlife, and shade and screening for trail users and neighbors. The close proximity of trees to the existing trail, design and construction of a wider trail that is safer and more accessible to people of all ages and abilities has been challenging and requires the removal of some trees.

The 90-percent design plans for South Sammamish Segment A, of the East Lake Sammamish Trail, stretching from 43rd Way SE to SE 33rd Street are complete. Understanding the sensitivities that surround tree removal, this document was prepared to assist the community in understanding the methodology used to identify and assess trees along the corridor. Results of the assessment are summarized below and also shown on the attached tree preservation plans, which correspond to the trail design plans. Please note, the tree preservation plans are preliminary, and may change as trail design progresses. The tree preservation plans will be updated after completion of the 100-percent trail design.

The assessment is intended to address significant trees. As defined in the Sammamish Municipal Code, significant trees are coniferous trees with a diameter of 8 inches or greater and deciduous trees with a diameter of 12 inches or greater at breast height (DBH), or approximately 4 ½ feet above ground.

Significant Tree Identification

Metal tags were placed on significant trees in the corridor and enable adjacent property owners to take the unique identification number from the tag and compare it to the tree preservation plans to determine whether or not a tree will be removed. King County's right-of-way can vary up to 100 feet wide, so not every tree in the right-of-way has a metal tag. In general, the design team placed a metal tag on all significant trees within 10 feet of the proposed clearing and grubbing limits. There were 193 significant trees identified in the South Sammamish Segment A corridor. There are many more significant trees in the corridor that do not have a metal tag. The absence of a metal tag typically means that the tree will be retained.

Arborist's Assessment

King County's arborist completed an assessment of significant trees in the corridor that (1) may be affected by trail improvements or (2) present a hazard to trail users and adjacent property owners. The trees that will be affected by trail improvements are typically inside the clearing and grubbing limits or within 10 feet of the clearing and grubbing limits. The design team has reviewed the arborists' assessment and concurs.

The arborist field reviewed the location of the 193 identified trees with respect to the 90-percent design plans. The arborist assessment includes the following:

- (1) A general inventory of significant trees within the proposed clearing and grubbing limits. Detailed information for each tree is not included because the trees must be removed. These trees are coded with an "X" in the attached tree preservation plans.



- (2) A more detailed evaluation of significant trees close to or just outside the clearing and grubbing limits that may be adversely impacted by trail improvements. The arborist evaluated the species, size, health, and proximity to construction to make a determination of “X” – remove, “S” – save (retain), or “M” – monitor during construction.
- (3) A more detailed evaluation of significant trees in the corridor that show outward signs of decline or significant defect resulting in a possible safety hazard. The arborist evaluated the species, size, health, and proximity to construction to make a determination of “X” – remove, “S” – save (retain), or “M” – monitor during construction.

Results of the Assessment

The following table summarizes the results of the assessment. The details are presented in the attached tree preservation plans.

TOTAL SIGNIFICANT TREES ASSESSED BY ARBORIST	193
ARBORIST ASSESSMENT	
Significant trees to be saved	124
No action needed	69
Monitor – could still be affected by construction	55
Significant trees to be removed	69
Within clearing and grubbing limits	58
Outside clearing and grubbing limits	11

Of the 193 significant trees assessed by the arborist, 69 significant trees will be removed. Of the 69 significant trees to be removed, seven trees meet the Sammamish Municipal Code definition of a heritage tree (22-inch or greater DBH). Please note that only one of these seven heritage trees is within the clearing and grubbing limits. The remaining six heritage trees are recommended for removal due to safety, based on their current condition (considerable defects, state of decline, or risk) rather than proximity to construction.

The goal for the 55 significant trees identified for monitoring is to save them if possible. Please note, the trees are close enough to the clearing and grubbing limits where they could be impacted by trail construction. The arborist will monitor these trees and evaluate any damages as a result of construction activities. If the Arborist believes the long term health of the tree has been compromised and recommends removal of the tree, King County will notify the City of Sammamish. King County will also notify the adjacent property owners prior to tree removal.

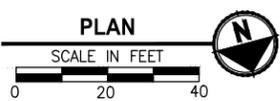
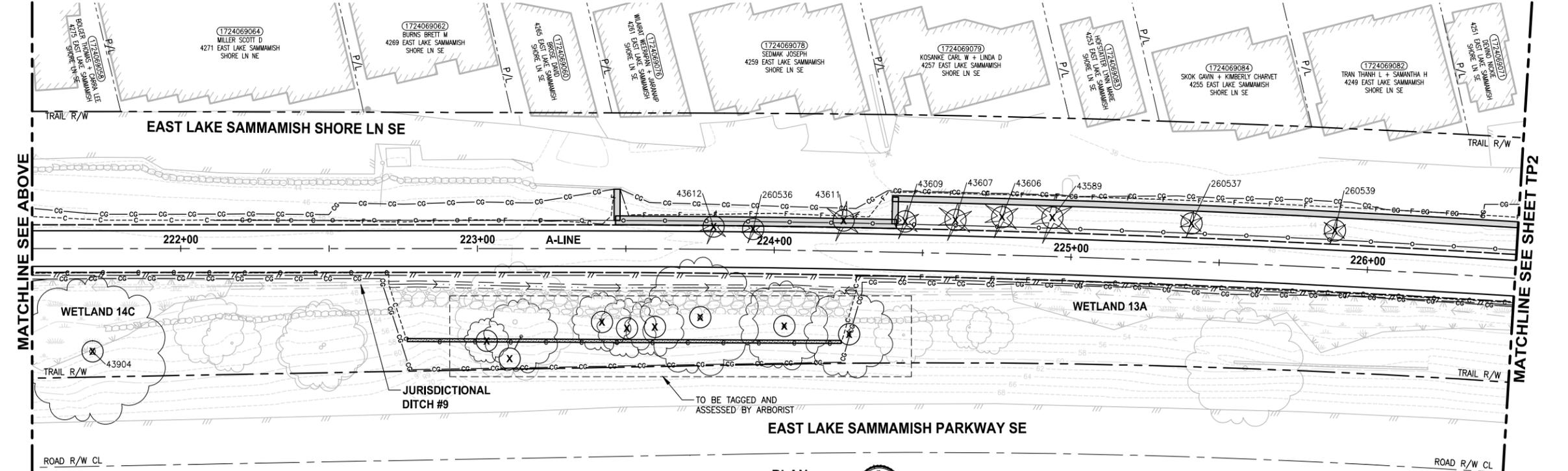
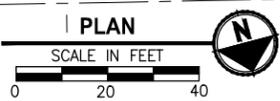
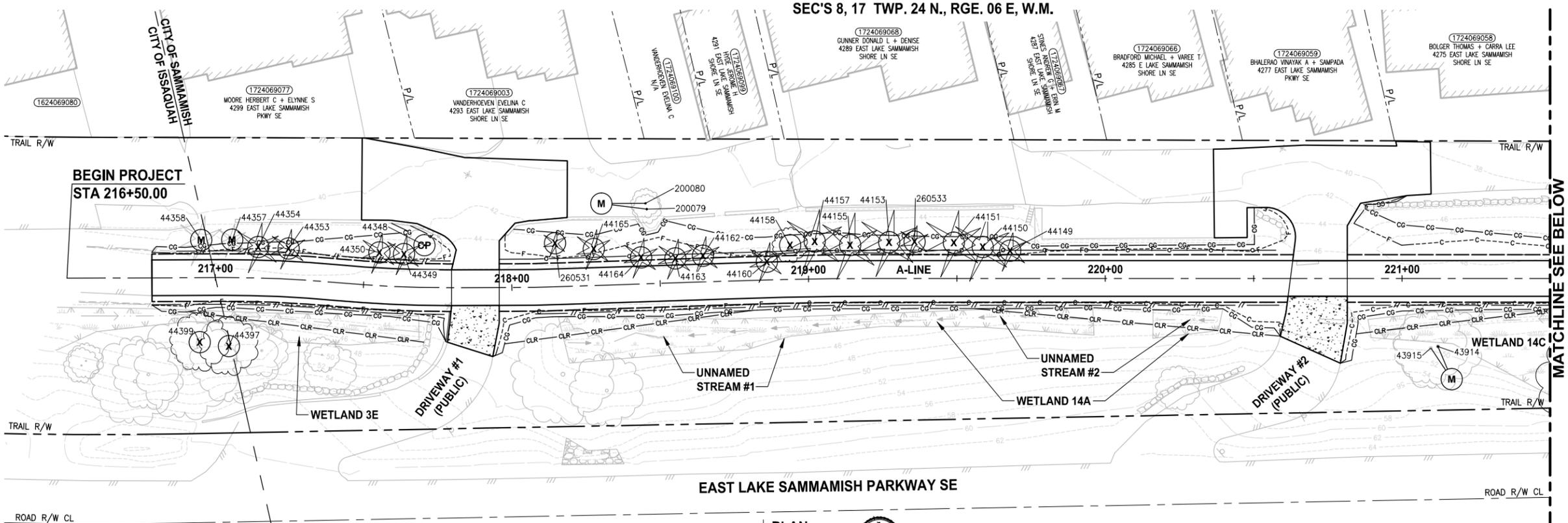
SEC'S 8, 17 TWP. 24 N., RGE. 06 E, W.M.

TREE REMOVAL AND PRESERVATION NOTES:

- (S) SAVE
- (X) REMOVE
- (M) MONITOR
- (RP) ROOT PRUNE
- (CP) CLEARANCE PRUNE
- (RD) REMOVE DEAD STEM
- (H) REMOVE ALL BRANCHES AND LEAVE 18' TALL TRUNK AS HABITAT SNAG

- LEGEND:**
- CG CG CLEARING AND GRUBBING
 - CLR CLR CLEARING LIMIT

- GENERAL NOTES:**
- TREES WITHIN 10 FEET OUTSIDE OF THE CLEARING AND GRUBBING LIMITS HAVE BEEN ASSESSED BY AN ARBORIST. ACTIVITIES BY THE CONTRACTOR OR KING COUNTY HAVE BEEN IDENTIFIED IN THE "TREE REMOVAL AND PRESERVATION NOTES" ABOVE.
 - TREES NOT OTHERWISE NOTED FOR ACTION ON THE PLANS ARE TYPICALLY INTENDED TO BE MAINTAINED AND PRESERVED ON SITE.



CITY OF SAMMAMISH APPROVAL	
City Engineer _____	Date _____
Community Development _____	Date _____

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PROJECT NAME
**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT A**
SAMMAMISH, WA

TREE PRESERVATION PLAN

SHEET NO.
79 OF 79
TP1

TREE REMOVAL AND PRESERVATION NOTES:

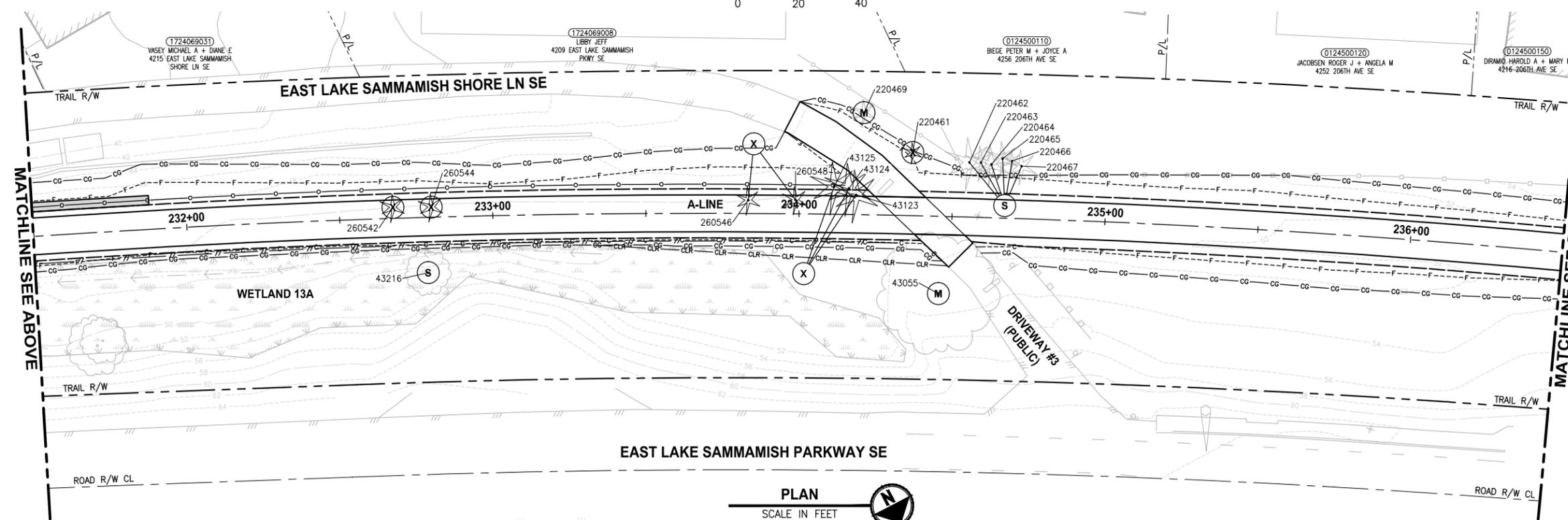
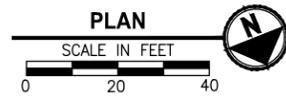
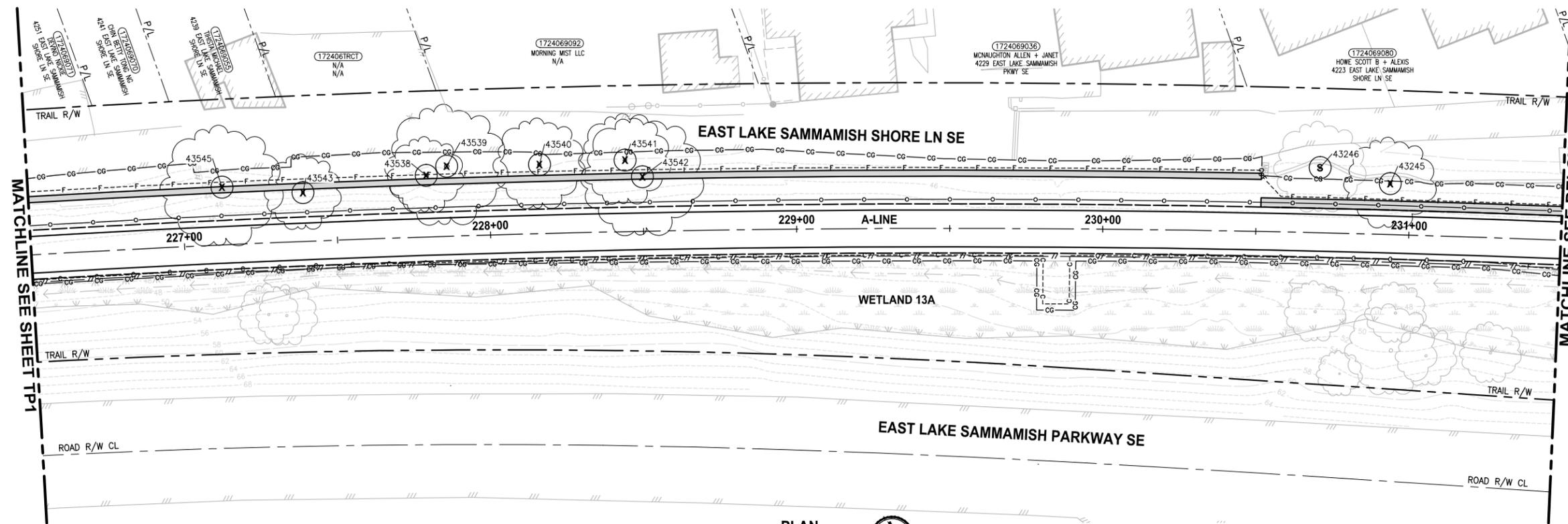
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TREE PRESERVATION PLAN

SHEET NO.
 80 OF 79
TP2

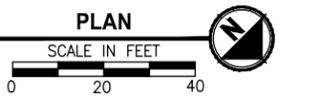
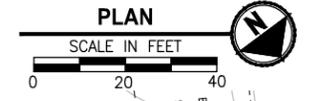
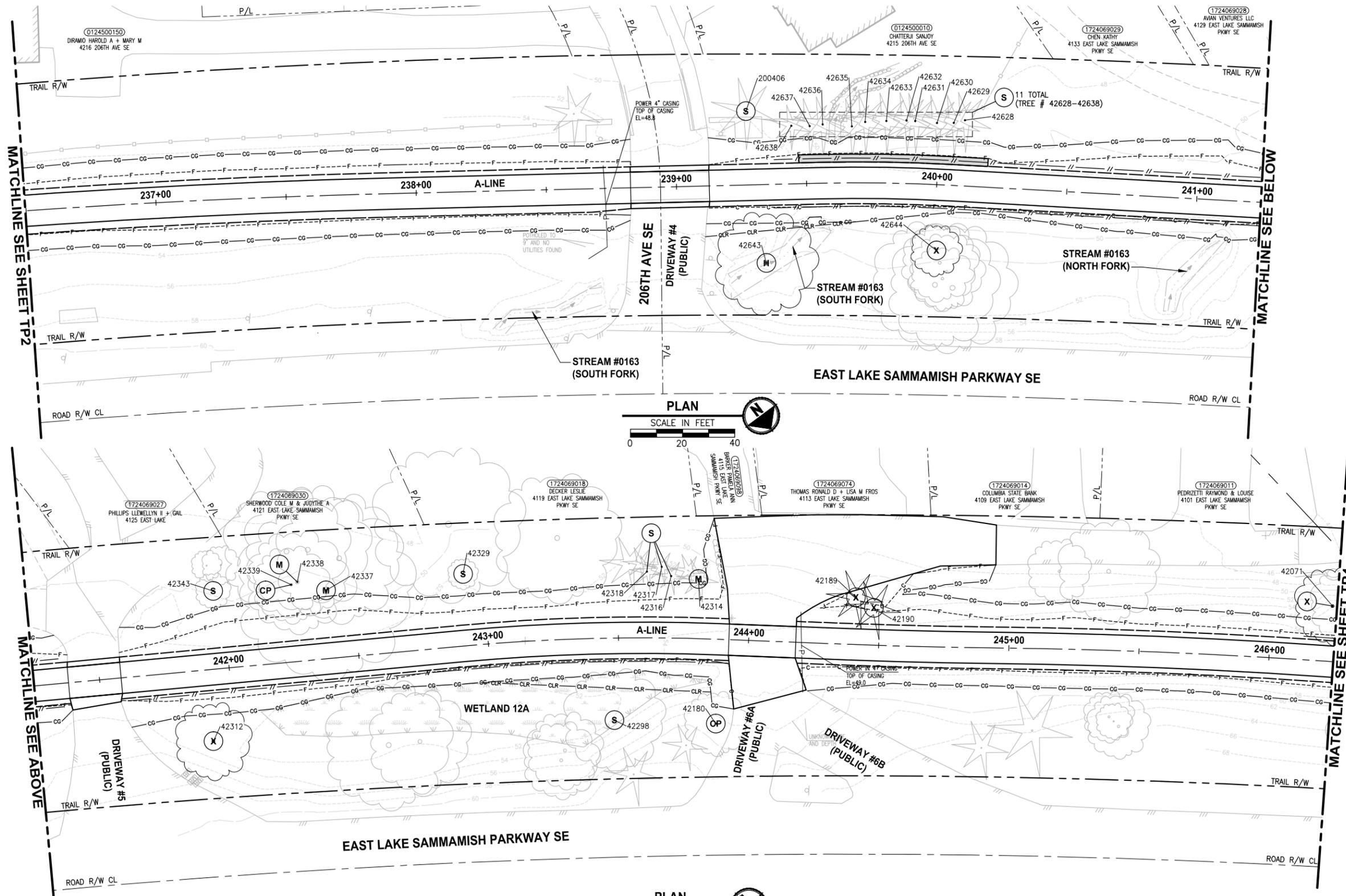
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 SAMMAMISH, WA

TREE PRESERVATION PLAN

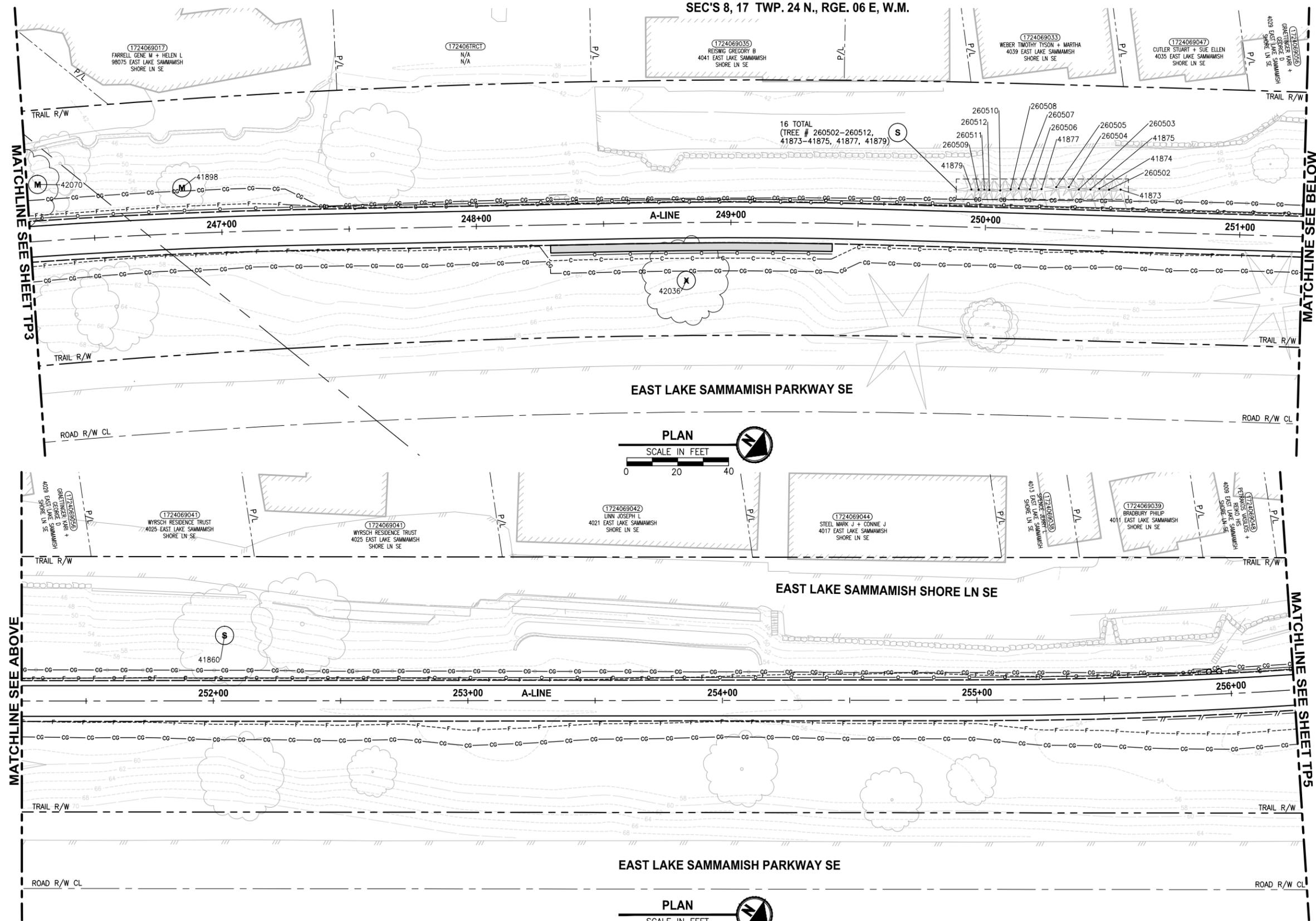
SHEET NO.
 81 OF 79
TP3

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LEGEND:

- CG-CG CLEARING AND GRUBBING
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 SAMMAMISH, WA

TREE PRESERVATION PLAN

SHEET NO.
 82 OF 79
TP4

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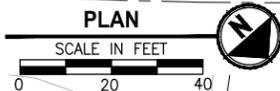
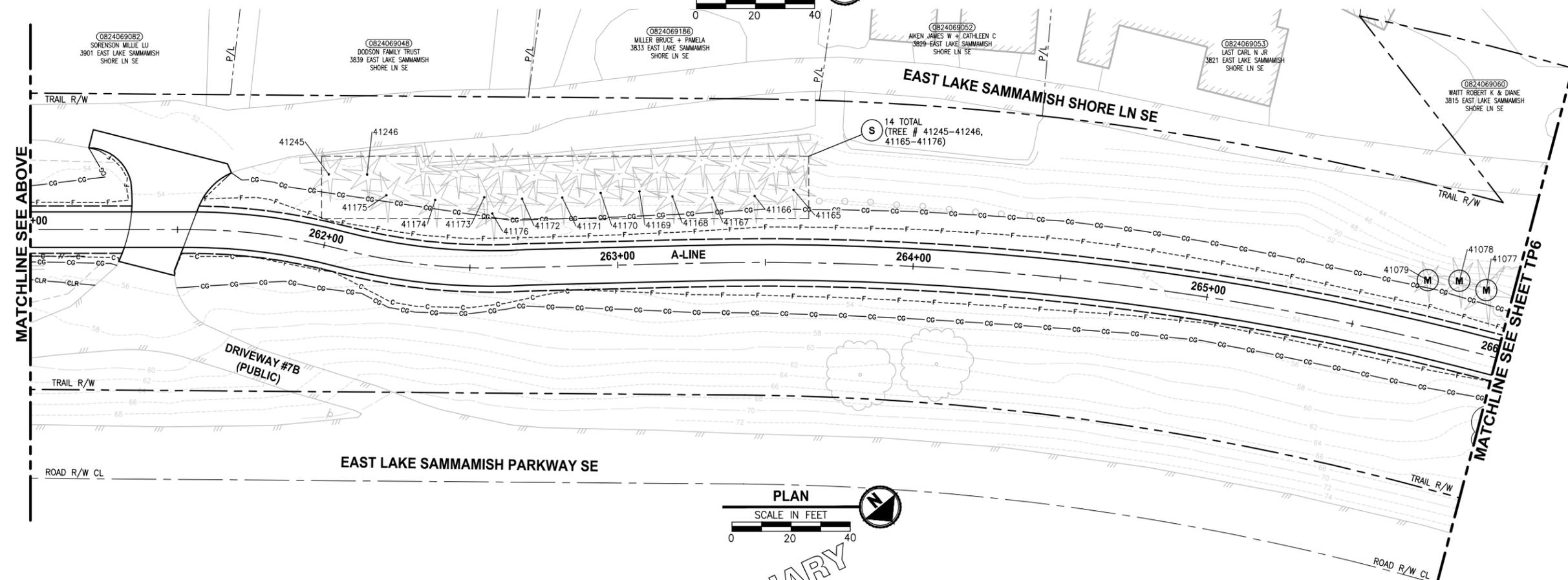
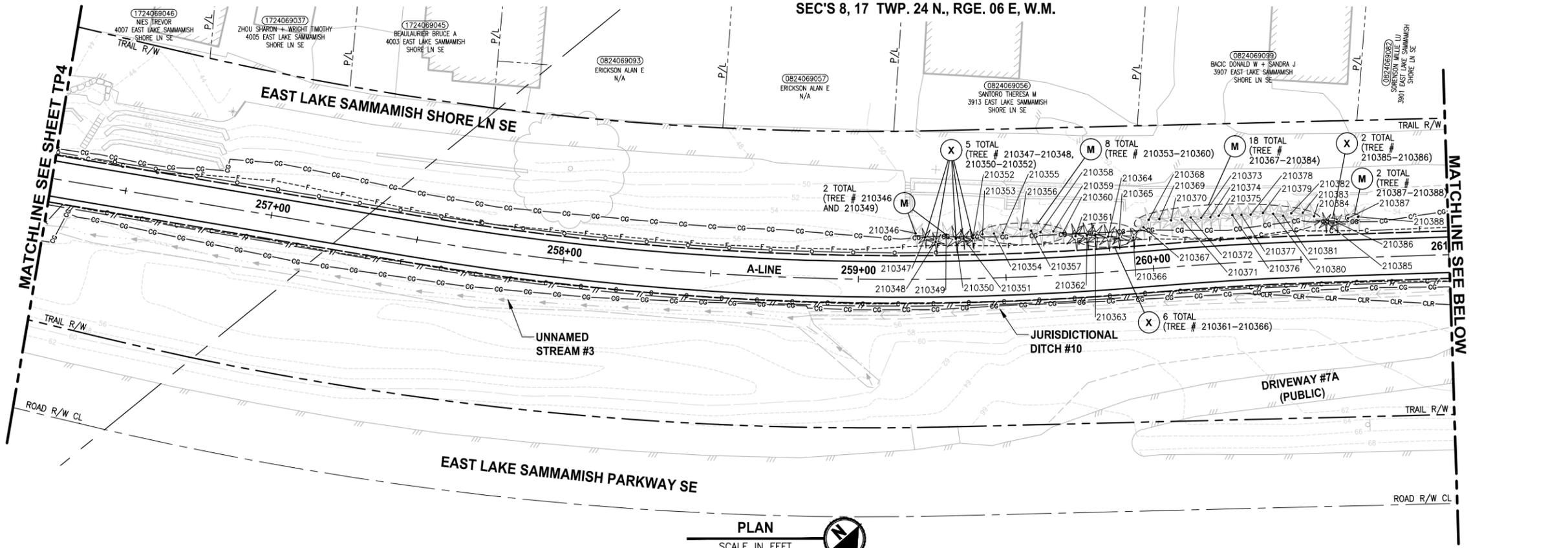
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 SOUTH SAMMAMISH SEGMENT A**
 SAMMAMISH, WA

TREE PRESERVATION PLAN

SHEET NO.
 83 OF 79
TP5

TREE REMOVAL AND PRESERVATION NOTES:

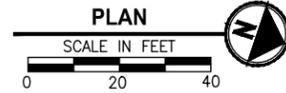
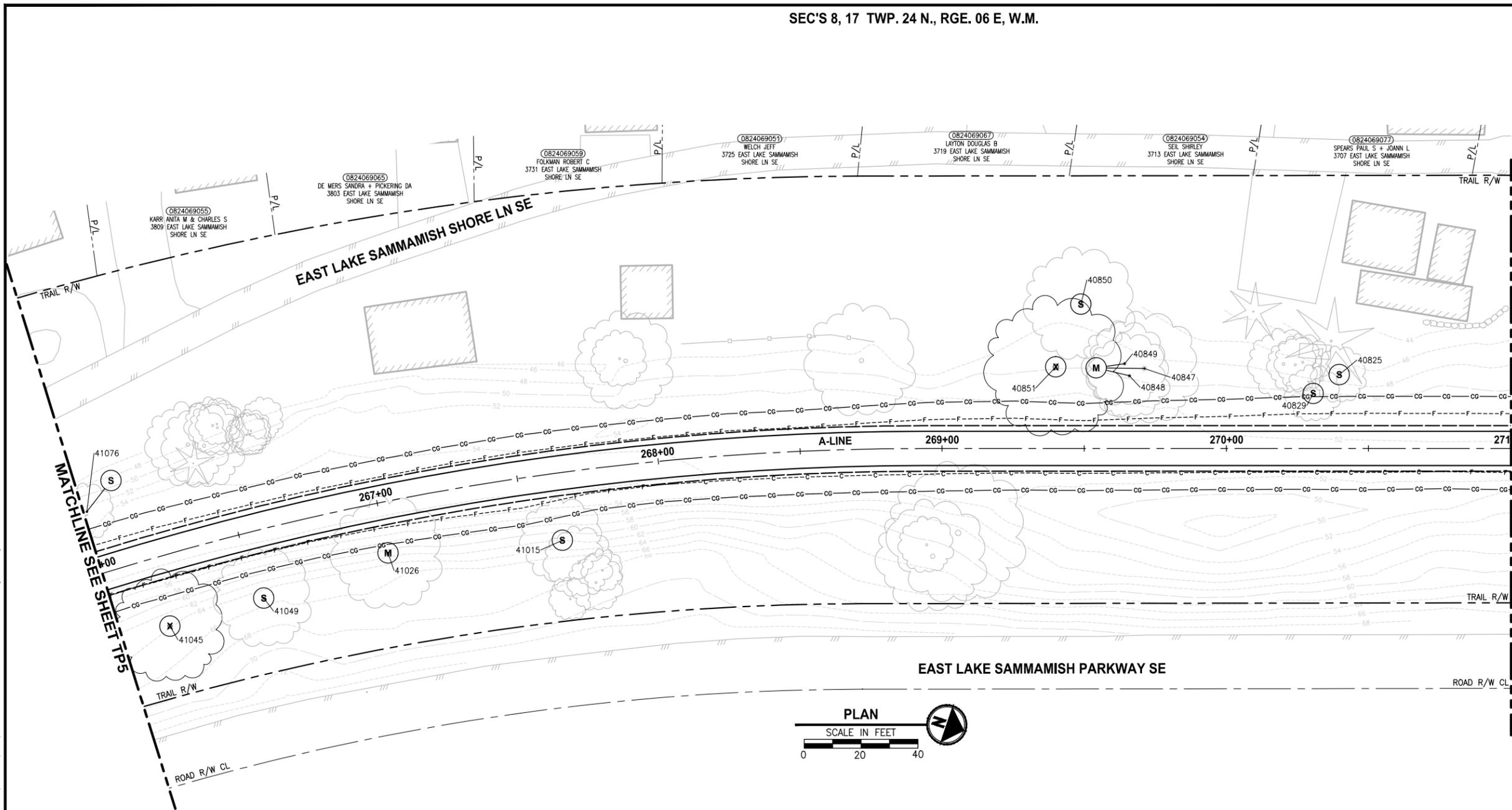
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SOUTH SAMMAMISH SEGMENT A**
SAMMAMISH, WA

TREE PRESERVATION PLAN

SHEET NO.
84 OF 79
TP6

TREE REMOVAL AND PRESERVATION NOTES:

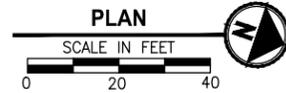
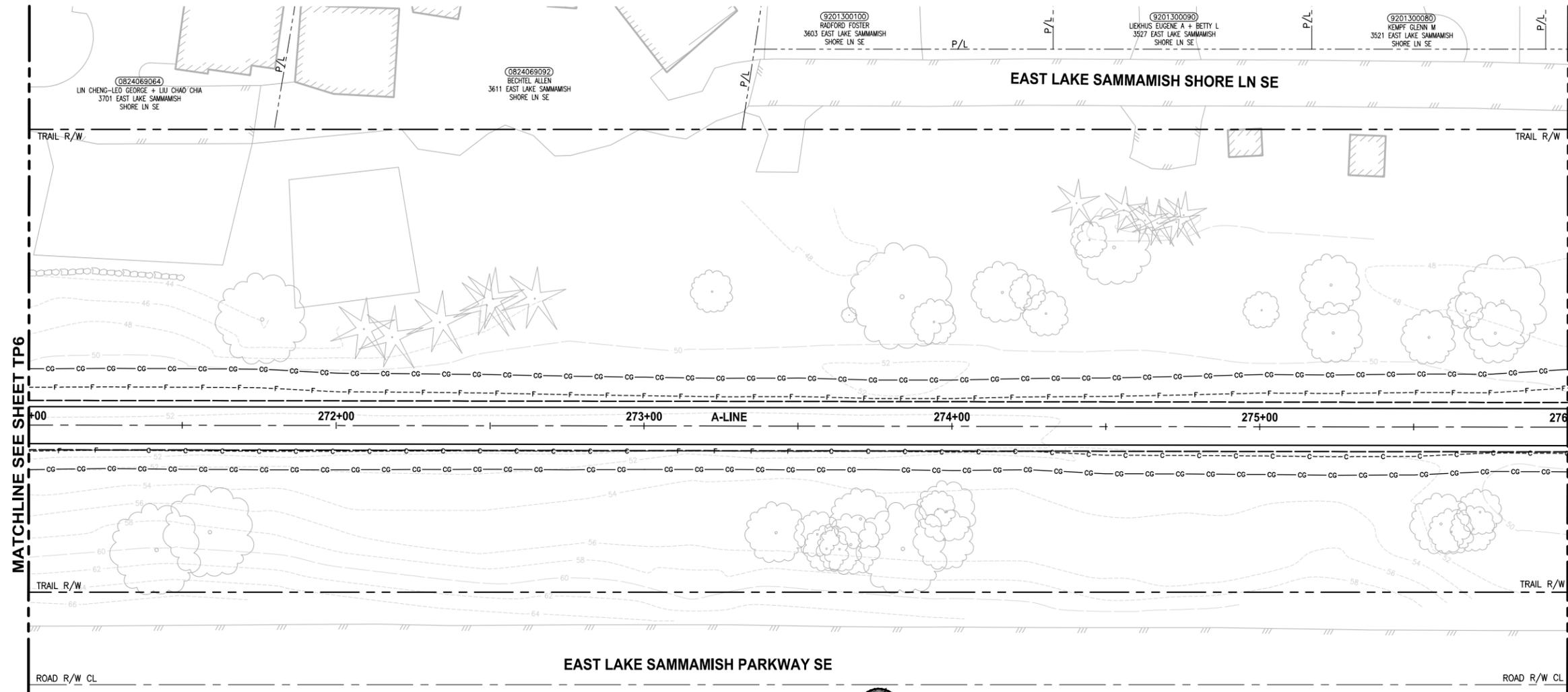
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TREE PRESERVATION PLAN

SHEET NO.
85 OF 79
TP7

TREE REMOVAL AND PRESERVATION NOTES:

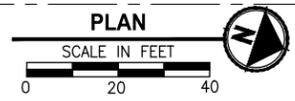
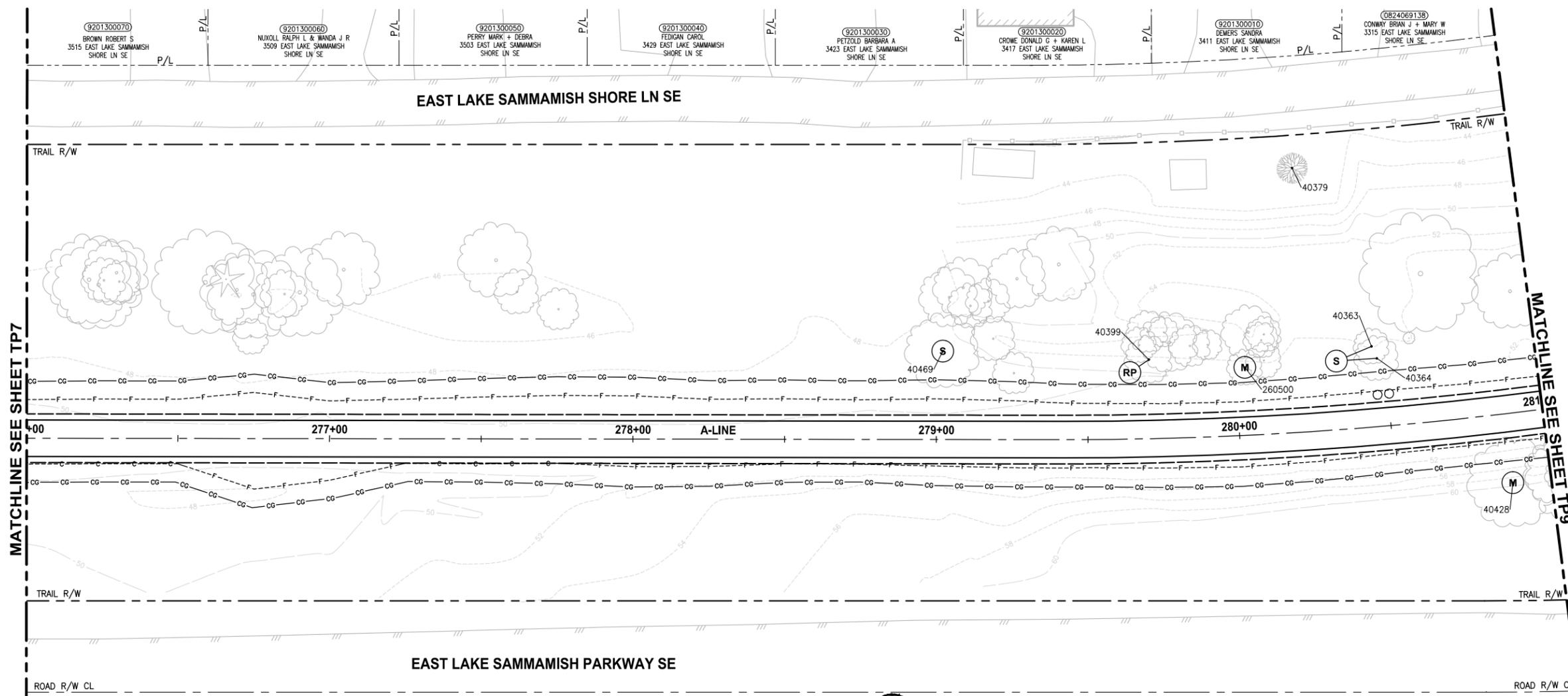
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REVISIONS	DATE	BY	DESIGNED	DESIGNED BY

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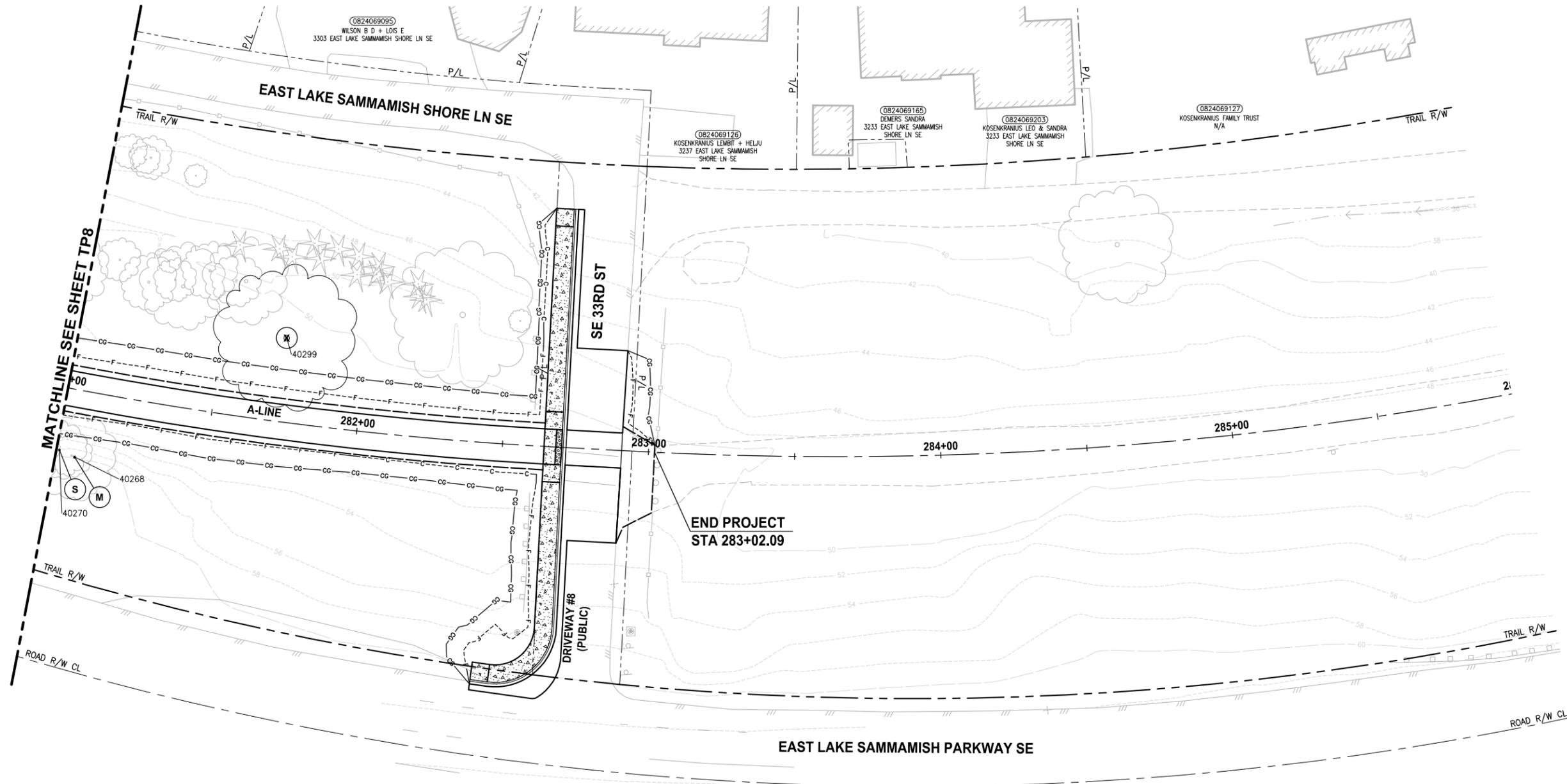
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- (H) REMOVE ALL BRANCHES AND LEAVE 18' TALL TRUNK AS HABITAT SNAG

LEGEND:

- CG CG CLEARING AND GRUBBING
- CLR CLR CLEARING LIMIT

GENERAL NOTES:

1. TREES WITHIN 10 FEET OUTSIDE OF THE CLEARING AND GRUBBING LIMITS HAVE BEEN ASSESSED BY AN ARBORIST. ACTIVITIES BY THE CONTRACTOR OR KING COUNTY HAVE BEEN IDENTIFIED IN THE "TREE REMOVAL AND PRESERVATION NOTES" ABOVE.
2. TREES NOT OTHERWISE NOTED FOR ACTION ON THE PLANS ARE TYPICALLY INTENDED TO BE MAINTAINED AND PRESERVED ON SITE.



LAYOUT: TP9
 PATH: U:\PSO\Projects\Clients\1521-KingCo\554-1521-075-ELSA\99Secs\CADD\Phase 20\Task 03\DWG\ PLOTTED BY: JUNIUS DATE: Tuesday, January 13, 2015 5:34:58 PM

CITY OF SAMMAMISH APPROVAL	
City Engineer _____	Date _____
Community Development _____	Date _____

**90 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION**

REVISIONS	DATE	BY	DESIGNED	DESIGNED BY
			DRAWN	DRAWN BY
			CHECKED	CHECKED BY
			APPROVED	APPROVED

**ONE INCH AT FULL SCALE,
IF NOT, SCALE ACCORDINGLY**

FILE NAME
BL1521075P20T03TP-01

JOB No.
554-1521-075 P20T03

DATE
DECEMBER 2014

PRELIMINARY

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PROJECT NAME
**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT A**
SAMMAMISH, WA

TREE PRESERVATION PLAN

SHEET NO.
87 OF 79

TP9

TREE DESCRIPTION AND RECOMMENDATIONS

Tree #	Species	DBH	Save	Remove	Prune	Monitor	Comments
40268	big leaf maple	20, 17, 5				1	previous stem failure
40270	big leaf maple	18	1				no concerns
40299	black cottonwood	30,22		1			fork, codominant stems, problem in near future
40363	black cottonwood	12	1				leans away from trail
40364	black cottonwood	18	1				natural lean
40399	black cottonwood	15			root prune	1	leans parallel to trail, large surface root extending into trail, root prune
40428	big leaf maple	10, 15, 11				1	one stem with 30 degree lean east
40469	black cottonwood	24	1				no concerns
40825	big leaf maple	15	1				old wound north side
40829	big leaf maple	13	1				
40847	big leaf maple	30,26				1	trunk covered in ivy inhibiting assessment, remove ivy
40848	big leaf maple	19				1	leans to trail, ivy inhibiting assessment, remove ivy
40849	big leaf maple	24				1	leans away from trail, remove ivy
40850	big leaf maple 7	16-26	1				appears sound
40851	big leaf maple	36		1			forks at 6', small live crown, dead codominant stem, covered in ivy, high risk
41015	big leaf maple	17	1				large scaffold branches
41026	Oregon ash	13,14				1	no concerns
41045	big leaf maple	22,20,18		1			previous stem failure, soft rot fungus, high risk
41049	Oregon ash	9,12,10	1				no concerns
41076	black cottonwood	20	1				
41077	Douglas-fir	13				1	
41078	Scots pine	11, 4				1	sequoia pitch moth, co dominant stems
41079	Scots pine	9				1	sequoia pitch moth, heavy infestation
41165	Leyland cypress		1				
41166	Leyland cypress		1				
41167	Leyland cypress		1				
41168	Leyland cypress		1				
41169	Leyland cypress		1				
41170	Leyland cypress		1				
41171	Leyland cypress		1				
41172	Leyland cypress		1				
41173	Leyland cypress		1				
41174	Leyland cypress		1				
41175	Leyland cypress		1				
41176	Leyland cypress		1				
41245	Leyland cypress		1				
41246	Leyland cypress		1				
41860	big leaf maple	30			yes		remove dead stem-hazardous to trail
41873	Leyland cypress		1				
41874	Leyland cypress		1				
41875	Leyland cypress		1				
41877	Leyland cypress		1				
41879	Leyland cypress		1				
41898	big leaf maple	14				1	co dominant stems, foliage disease
42036	black cottonwood	38		1			problematic
42070	Oregon ash	14, 10				1	co dominant stems
42071	big leaf maple	18		1			dead codominant stem,
42180	Sargent cherry	17	1		yes		clearance prune
42189	Norwayspruce	15		1			extensive sapucker damage, with C & G
42190	Douglas-fir	19		1			within C & G
42298	Pacific willow	14, 16	1		yes		forks at 2', one large branch leans over the trail, prune back
42312	red alder	12		1			broken top, leaf dieback, extensive decay
42314	Austrian pine	12				1	co dominant stems, close to clearing limit
42316	Austrian pine	8	1				
42317	Austrian pine	11	1				
42318	Austrian pine	10	1				forks at 10'
42329	Oregon ash	13	1				co dominant stems, some foliage discoloration
42337	black cottonwood 2	30,40				1	overmature
42338	black cottonwood	18				1	phototropic lean 10 deg s, somewhat suppressed
42339	Sargent cherry	21	1		yes		leans 45 deg south, forks at 10'
42343	black cottonwood	12, 10	1				forks at base
42628	Leyland cypress		1				
42629	Leyland cypress		1				
42630	Leyland cypress		1				
42631	Leyland cypress		1				
42632	Leyland cypress		1				
42633	Leyland cypress		1				
42634	Leyland cypress		1				
42635	Leyland cypress		1				
42636	Leyland cypress		1				
42637	Leyland cypress		1				
42638	Leyland cypress		1				
42643	red alder	16		1			in decline, problematic, remove all branches and leave 18' tall trunk as habitat snag
42644	red alder	12		1			rotten, lean, high risk of failure
43055	black cottonwood	24, 20				1	4' E of driveway
43123	Leyland cypress	12		1			within C & G
43124	Leyland cypress	10		1			within C & G
43125	Leyland cypress	9		1			within C & G
43216	red alder	13	1				
43245	big leaf maple	15		1			within C & G
43246	big leaf maple	14	1				no concerns, save if possible
43538	black cottonwood	22		1			
43539	black cottonwood	16, 8, 6		1			co dominant stems fork at base
43540	black cottonwood	20		1			some abnormally small leaves
43541	black cottonwood	18		1			co dominant stems, one leans S 20deg
43542	black cottonwood	26		1			within C & G
43543	big leaf maple 2	14, 7		1			poor form, problematic
43545	big leaf maple 3	10, 12, 9		1			old stump sprouts, problematic
43589	Colorado blue spruce	14		1			within C & G
43606	Colorado blue spruce	11		1			within C & G
43607	Colorado blue spruce	13		1			within C & G
43609	Colorado blue spruce	10		1			within C & G
43611	Austrian pine	11		1			poor condition, heavy lean
43612	Austrian pine	14		1			within C & G
43904	red alder	22		1			overmature, declining, dying top
43914	red alder	17			1		forked top, thinning, moderate risk
43915	red alder	15			1		fair, mature, low to moderate risk
44149	Douglas-fir	10		1			within C & G
44150	Douglas-fir	13		1			topped in past, within C & G

Tree #	Species	DBH	Save	Remove	Prune	Monitor	Comments
44151	Douglas-fir	16		1			topped in past, within C & G
44153	Douglas-fir	15		1			topped in past, within C & G
44155	Douglas-fir	15		1			topped in past, within C & G
44157	Douglas-fir	13, 8		1			topped in past, within C & G
44158	Sargent cherry	14		1			poor condition, poor form, within C & G
44160	Lawson cypress	13		1			within C & G
44162	Lawson cypress	13		1			within C & G
44163	Lawson cypress	9,5		1			within C & G
44164	Lawson cypress	8,6		1			within C & G
44165	Lawson cypress	10		1			within C & G
44348	Chanticleer pear	14			yes	1	near C&G line, save, monitor, and clearance pruning
44349	Leyland cypress	11		1			within C & G
44350	Leyland cypress	15		1			within C & G
44353	eastern hemlock	15		1			within C & G
44354	eastern hemlock	12		1			within C & G
44357	eastern hemlock	11			yes	1	near C&G line, save and monitor, minor clearance pruning
44358	eastern hemlock	14			yes	1	near C&G line, save and monitor, minor clearance pruning
44397	black cottonwood	17		1			heavy lean to trail, problematic
44399	black cottonwood	13,6		1			heavy lean to trail
200079	red alder	14				1	heavy lean to trail
200080	red alder	17				1	mature, declining top
200406	Deodar cedar	28	1				
210346	Leyland cypress	12				1	
210347	Leyland cypress	8		1			within C & G
210348	Leyland cypress	8		1			within C & G
210349	Leyland cypress	10				1	
210350	Leyland cypress	10		1			within C & G
210351	Leyland cypress	8		1			within C & G
210352	Leyland cypress	8		1			within C & G
210353	Leyland cypress	8			yes	1	near C&G line, save and monitor
210354	Leyland cypress	8			yes	1	near C&G line, save and monitor
210355	Leyland cypress	8			yes	1	near C&G line, save and monitor
210356	Leyland cypress	8			yes	1	near C&G line, save and monitor
210357	Leyland cypress	8			yes	1	near C&G line, save and monitor
210358	Leyland cypress	8			yes	1	near C&G line, save and monitor
210359	Leyland cypress	8			yes	1	near C&G line, save and monitor
210360	Leyland cypress	8			yes	1	near C&G line, save and monitor
210361	Leyland cypress	10		1			within C & G
210362	Leyland cypress	10		1			within C & G
210363	Leyland cypress	10		1			within C & G
210364	Leyland cypress	10		1			within C & G
210365	Leyland cypress	10		1			within C & G
210366	Leyland cypress	8		1			within C & G
210367	Leyland cypress	8			yes	1	near C&G line, save and monitor
210368	Leyland cypress	8			yes	1	near C&G line, save and monitor
210369	Leyland cypress	8			yes	1	near C&G line, save and monitor
210370	Leyland cypress	8			yes	1	near C&G line, save and monitor
210371	Leyland cypress	8			yes	1	near C&G line, save and monitor
210372	Leyland cypress	8			yes	1	near C&G line, save and monitor
210373	Leyland cypress	8			yes	1	near C&G line, save and monitor
210374	Leyland cypress	8			yes	1	near C&G line, save and monitor
210375	Leyland cypress	8			yes	1	near C&G line, save and monitor
210376	Leyland cypress	8			yes	1	near C&G line, save and monitor
210377	Leyland cypress	8			yes	1	near C&G line, save and monitor
210378	Leyland cypress	8			yes	1	near C&G line, save and monitor
210379	Leyland cypress	8			yes	1	near C&G line, save and monitor
210380	Leyland cypress	10			yes	1	near C&G line, save and monitor
210381	Leyland cypress	10			yes	1	near C&G line, save and monitor
210382	Leyland cypress	10			yes	1	near C&G line, save and monitor
210383	Leyland cypress	10			yes	1	near C&G line, save and monitor
210384	Leyland cypress	10			yes	1	near C&G line, save and monitor
210385	Leyland cypress	8		1			within C & G
210386	Leyland cypress	8		1			within C & G
210387	Leyland cypress	10				1	near C&G line, save and monitor
210388	Leyland cypress	10				1	near C&G line, save and monitor
220461	Deodar cedar	9		1			within C & G
220462	Leyland cypress	18	1				beyond fence, no anticipated impacts
220463	Leyland cypress	14	1				beyond fence, no anticipated impacts
220464	Leyland cypress	16	1				beyond fence, no anticipated impacts
220465	Leyland cypress	14	1				beyond fence, no anticipated impacts
220466	Leyland cypress	8	1				beyond fence, no anticipated impacts
220467	Leyland cypress	12	1				beyond fence, no anticipated impacts
220469	Douglas-fir	10			yes	1	near C&G line, save and monitor, clearance prune
260500	black cottonwood	14				1	natural lean to trail, minor crooks
260502	Leyland cypress		1				
260503	Leyland cypress		1				
260504	Leyland cypress		1				
260505	Leyland cypress		1				
260506	Leyland cypress		1				
260507	Leyland cypress		1				
260508	Leyland cypress		1				
260509	Leyland cypress		1				
260510	Leyland cypress		1				
260511	Leyland cypress		1				
260512	Leyland cypress		1				
260531	Lawson cypress	8,6		1			within C & G
260533	Lawson cypress	10		1			within C & G
260536	Austrian pine	10		1			within C & G
260537	Japanese white pine	8		1			within C & G
260539	Japanese white pine	10		1			within C & G
260542	Douglas-fir	9		1			within C & G
260544	Douglas-fir	8		1			fork at 10'
260546	Douglas-fir	8		1			within C & G
260548	Douglas-fir	8		1			within C & G
TOTALS		193		69		69	55

LAYOUT: TP10 PATH: U:\PSO\Projects\Clients\1521-KingCA\554-1521-075-ELST\985sect\CADD\Phase 20\Task 03\DWG\ PLOTTED BY: JUNIUS DATE: Tuesday, January 13, 2015 5:35:10 PM

CITY OF SAMMAMISH APPROVAL	
City Engineer _____	Date _____
Community Development _____	Date _____

90 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY	DESIGNED
			J. JUN
			B. PURGANAN
			Y. HO