

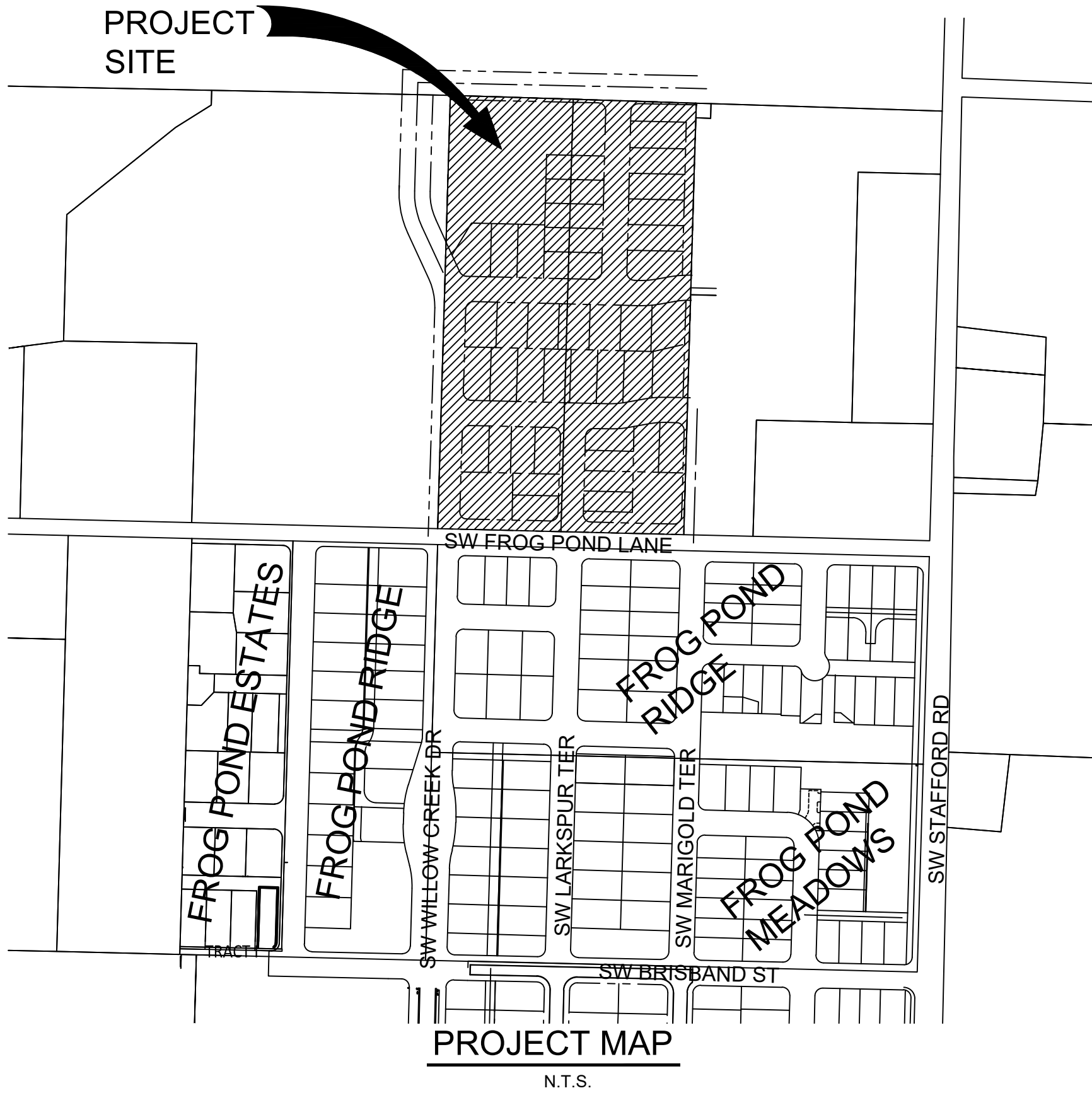
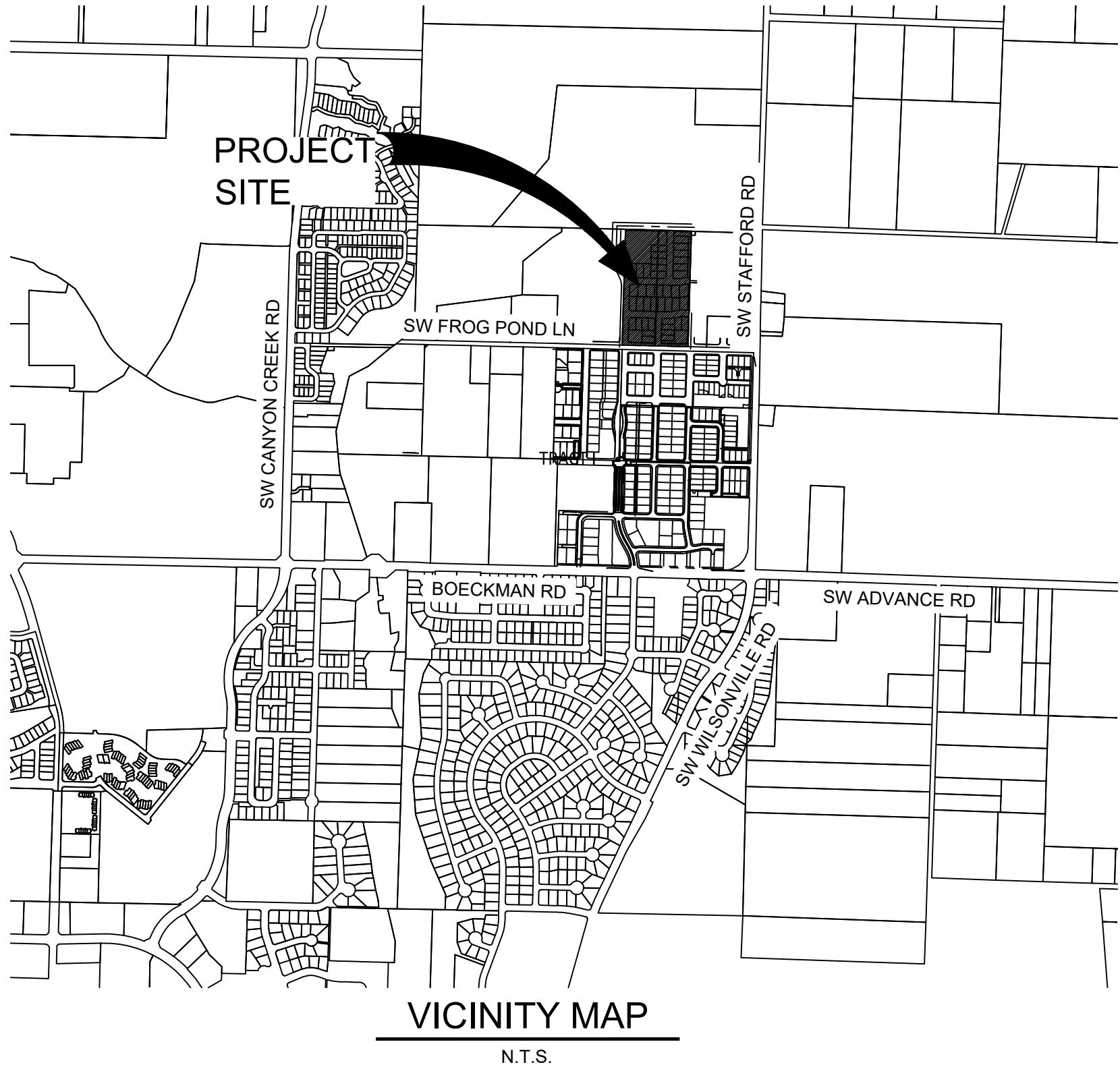
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FROG POND OAKS

PLANNED DEVELOPMENT

41 DETACHED SINGLE FAMILY LOTS

CITY OF WILSONVILLE, OREGON



SHEET INDEX	
SHEET NUMBER	SHEET TITLE
P0.00	COVER SHEET
P1.00	EXISTING CONDITIONS - AERIAL
P1.10	EXISTING CONDITIONS - SURVEY MAPPING
P2.00	PRELIMINARY SITE PLAN
P2.10	PRELIMINARY STREET CROSS SECTIONS
P3.00	PRELIMINARY PLAT
P4.00	PRELIMINARY UTILITY PLAN
P5.00	PRELIMINARY GRADING PLAN
P6.00	ANNEXATION PLAN
P7.00	ZONING MAP
P8.00	PROPOSED CIRCULATION AND CONNECTIVITY
P9.00	SUBDISTRICTS AND DENSITY
L1.00	TREE PROTECTION AND REMOVAL PLAN
L1.10	EXISTING TREE TABLES
L2.00	OVERALL LANDSCAPE PLAN
L2.10	TRACTS D AND E LANDSCAPE PLAN
L2.20	TRACTS A AND B LANDSCAPE PLANS
L2.30	LIDA PLANTER LANDSCAPE PLANS
L2.40	LANDSCAPE NOTES AND DETAILS
IL-1	ILLUMINATION NOTES
IL-2	ILLUMINATION DETAILS
IL-3	ILLUMINATION DETAILS
IL-4	ILLUMINATION PLAN

APPLICANT/ DEVELOPER

NAME: WEST HILLS LAND DEVELOPMENT
CONTACT: DAN GRIMBERG
ADDRESS: 3330 NW YEON AVENUE, SUITE 200
PORTLAND, OR 97210
PHONE: (503) 641-7342

PLANNER /CIVIL ENGINEER/ SURVEYOR/ LANDSCAPE ARCHITECT

NAME: OTAK INCORPORATED
PLANNER: LI ALLIGOOD, AICP
ENGINEER: KEITH BUISMAN, P.E.
SURVEYOR: MICHAEL SPELTS, PLS
LANDSCAPE ARCHITECT: GABRIEL KRUSE
ADDRESS: 808 SW THIRD AVENUE, SUITE 800
PORTLAND, OR 97204
PHONE: (503) 287-6825

NATURAL RESOURCES CONSULTANT

NAME: AKS ENGINEERING & FORESTRY, LLC
CONTACT: STACEY REED, PWS
ADDRESS: 12965 SW HERMAN RD, SUITE 100
TUALATIN, OR 97062
PHONE: (503) 563-6151

GEOTECHNICAL ENGINEER

NAME: HARDMAN GEOTECHNICAL SERVICES, INC.
CONTACT: SCOTT HARDMAN, P.E.
ADDRESS: 10110 SW NIMBUS AVENUE, SUITE B-5
PORTLAND, OR 97223
PHONE: (503) 530-8076

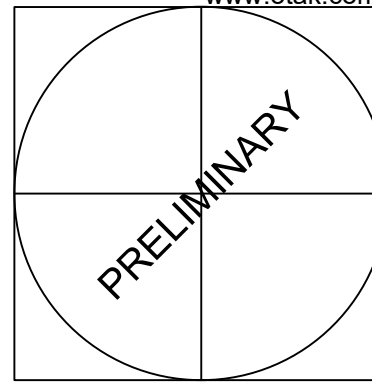
ARBORIST

NAME: PORTLAND TREE CONSULTING
CONTACT: RYAN NEUMANN
ADDRESS: PO BOX 19042
PORTLAND, OR 97280
PHONE: (503) 421-3883

SITE INFORMATION

CLACKAMAS COUNTY
CITY OF WILSONVILLE, OREGON, 97070

TAXLOT	AREA (AC)
31W12D 00401 (6725 SW FROG POND LANE) 5.23	
31W12D 00402 (NO SITUS)	5.23
TOTAL	10.46



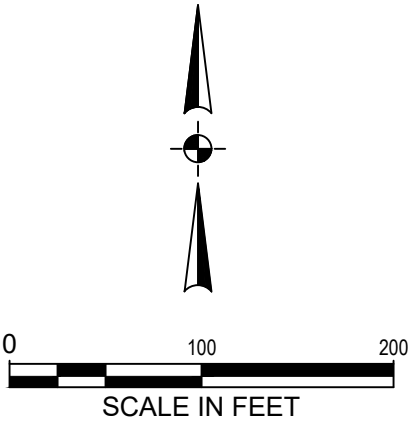
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REVISIONS		
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DATUM		
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DRAWN BY	CHECKED BY	
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STATUS		
FEBRUARY 18, 2022		
DATE		
20141		
PROJECT NUMBER		
P0.00		
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Plotted: Feb 14, 2022 - 3:27pm, kelth.buisman L:\Projects\2010\2014\1\CAD\DWG\20141\Frog Pond - Oaks\20141\F1.00.dwg Layout Name: F1.00



EXISTING LEGEND

PROPERTY LINE	---
PROJECT LIMITS	-----
EXISTING 5' CONTOUR	- - - - -
OVERHEAD LINE	—OHL—
COM. CABLE LINE	—C—
GAS LINE	—G—
WATER LINE	—W—
ELECTRIC LINE	—P—
SANITARY SEWER LINE	—SS—
WETLANDS	
CULVERT PIPE	-----
TREES	



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LAND DEVELOPMENT
CONSULTANT

FROG POND OAKS
41 DETACHED SINGLE FAMILY LOTS
CITY OF WILSONVILLE, OREGON

EXISTING CONDITIONS - AERIAL

TITLE	
#	DESCRIPTION

REVISIONS

NAVDS8
DATUM

OTAK CAD KJB
DRAWN BY CHECKED BY

LAND USE SUBMITTAL
STATUS

FEBRUARY 18, 2022
DATE

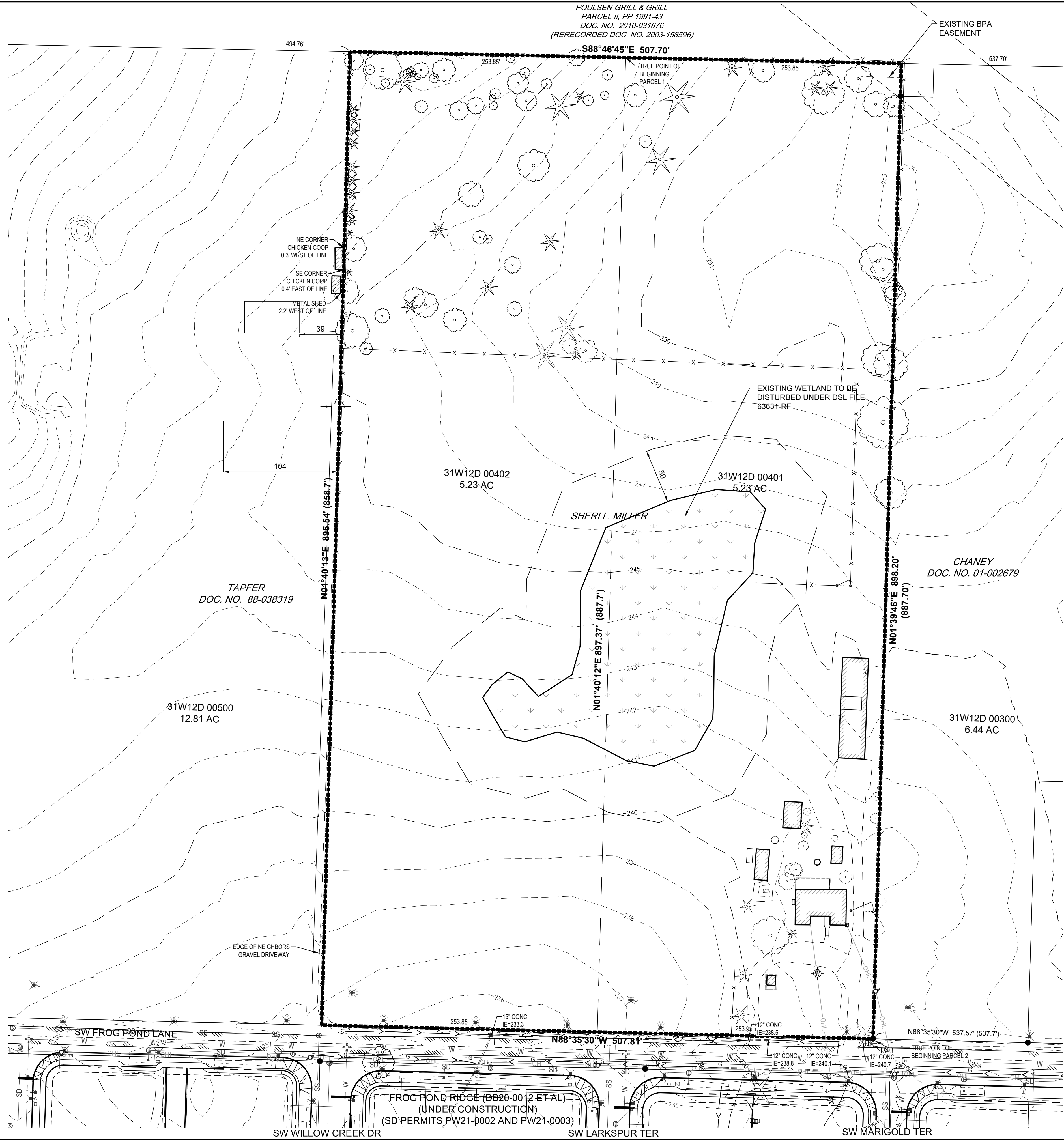
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PROJECT NUMBER

P1.00

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EXISTING LEGEND

PROPERTY LINE	---
PROJECT LIMITS	-----
EXISTING 5' CONTOUR	- - - - -
OVERHEAD LINE	---OHL---
COM. CABLE LINE	---C---
GAS LINE	---G---
WATER LINE	---W---
ELECTRIC LINE	---P---
SANITARY SEWER LINE	---SS---
WETLANDS	-----
CULVERT PIPE	-----
TREES	Star and Circle symbols

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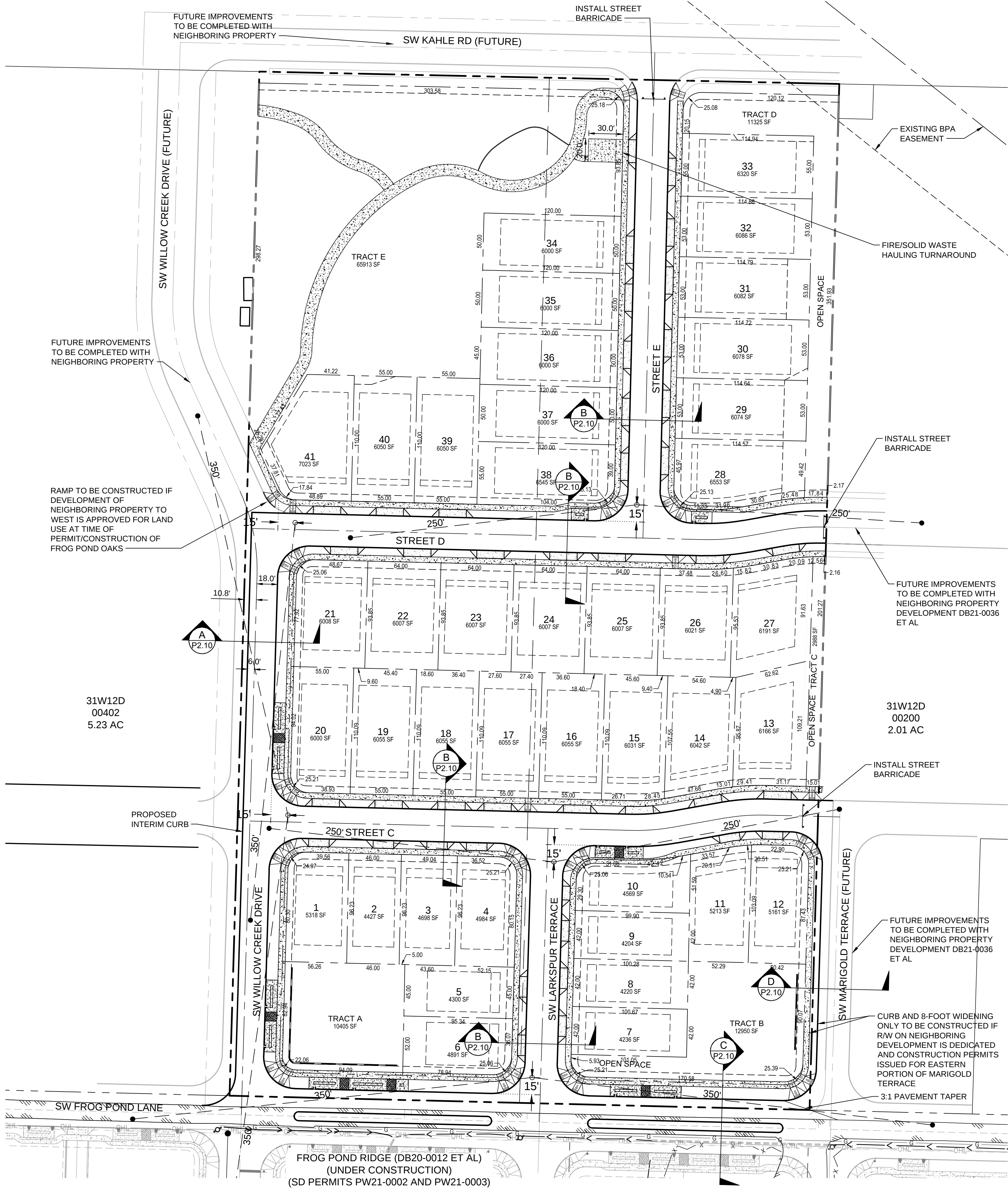
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FROG POND OAKS
41 DETACHED SINGLE FAMILY LOTS
CITY OF WILSONVILLE, OREGON

EXISTING CONDITIONS - SURVEY MAPPING

TITLE		
#	DATE	DESCRIPTION
REVISIONS		
NAVD88 DATUM		
OTAK CAD KJB		
DRAWN BY CHECKED BY		
LAND USE SUBMITTAL STATUS		
FEBRUARY 18, 2022 DATE		
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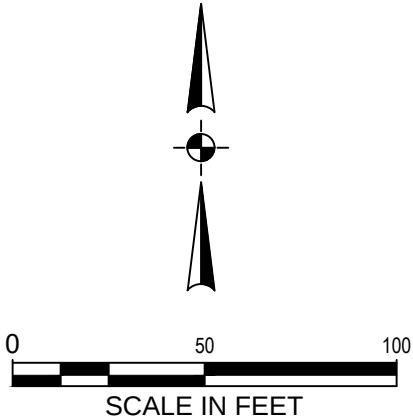
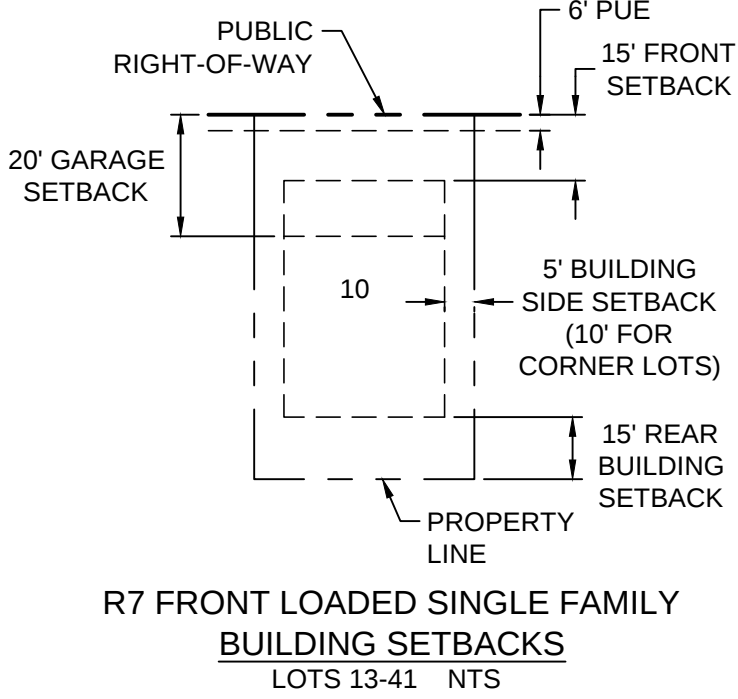
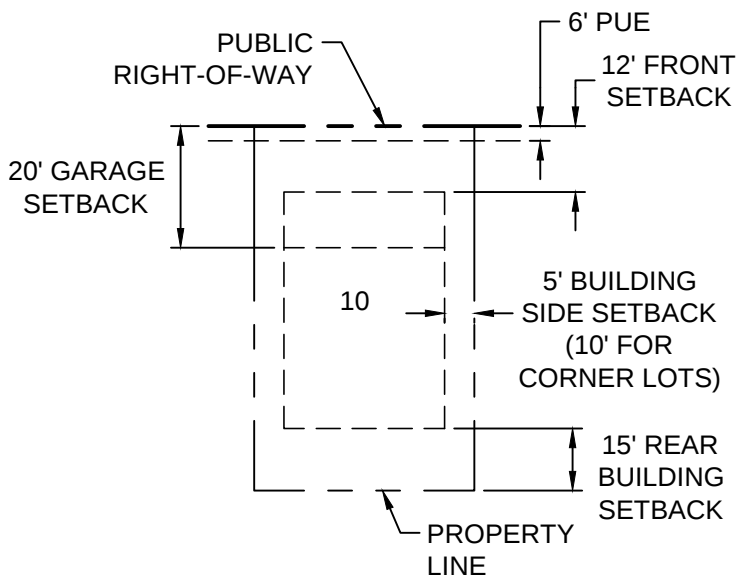
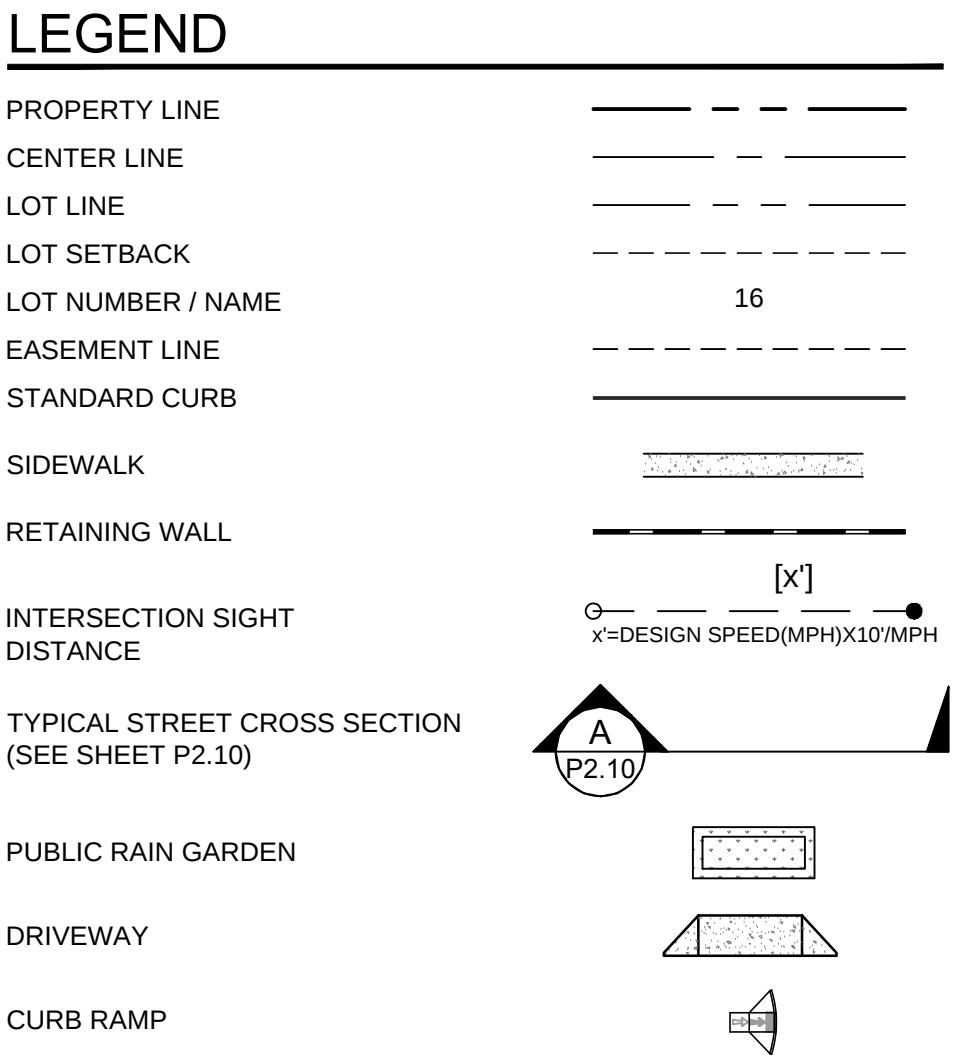
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PARCELS	
PARCEL	AREA
1	5318 SF
2	4427 SF
3	4698 SF
4	4984 SF
5	4300 SF
6	4891 SF
7	4236 SF
8	4220 SF
9	4204 SF
10	4569 SF
11	5213 SF
12	5161 SF
13	6166 SF
14	6042 SF
15	6031 SF
16	6055 SF
17	6055 SF
18	6055 SF
19	6055 SF
20	6000 SF
21	6008 SF
22	6007 SF
23	6007 SF
24	6007 SF
25	6007 SF
26	6021 SF
27	6191 SF
28	6553 SF
29	6074 SF
30	6078 SF
31	6082 SF
32	6086 SF
33	6320 SF
34	6000 SF
35	6000 SF
36	6000 SF
37	6000 SF
38	6545 SF
39	6050 SF
40	6050 SF
41	7023 SF

TRACT/ROW AREA	
TRACT	AREA
TRACT A	10,405 SF
TRACT B	12,950 SF
TRACT C	2,988 SF
TRACT D	11,325 SF
TRACT E	65,913 SF

Development Summary		
Residential lot		
Area	233,789	51.31%
Stormwater		
tracts	23,355	5.13%
Open space	80,230	17.61%
Right of way	118,258	25.95%
Total site area	455,632	100.00%
Minimum Lot Size	4,204 s.f.	
Average Lot size	5,702 s.f.	



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FROG POND OAKS
41 DETACHED SINGLE FAMILY LOTS
CITY OF WILSONVILLE, OREGON

PRELIMINARY SITE PLAN

TITLE

#	DATE	DESCRIPTION

REVISIONS

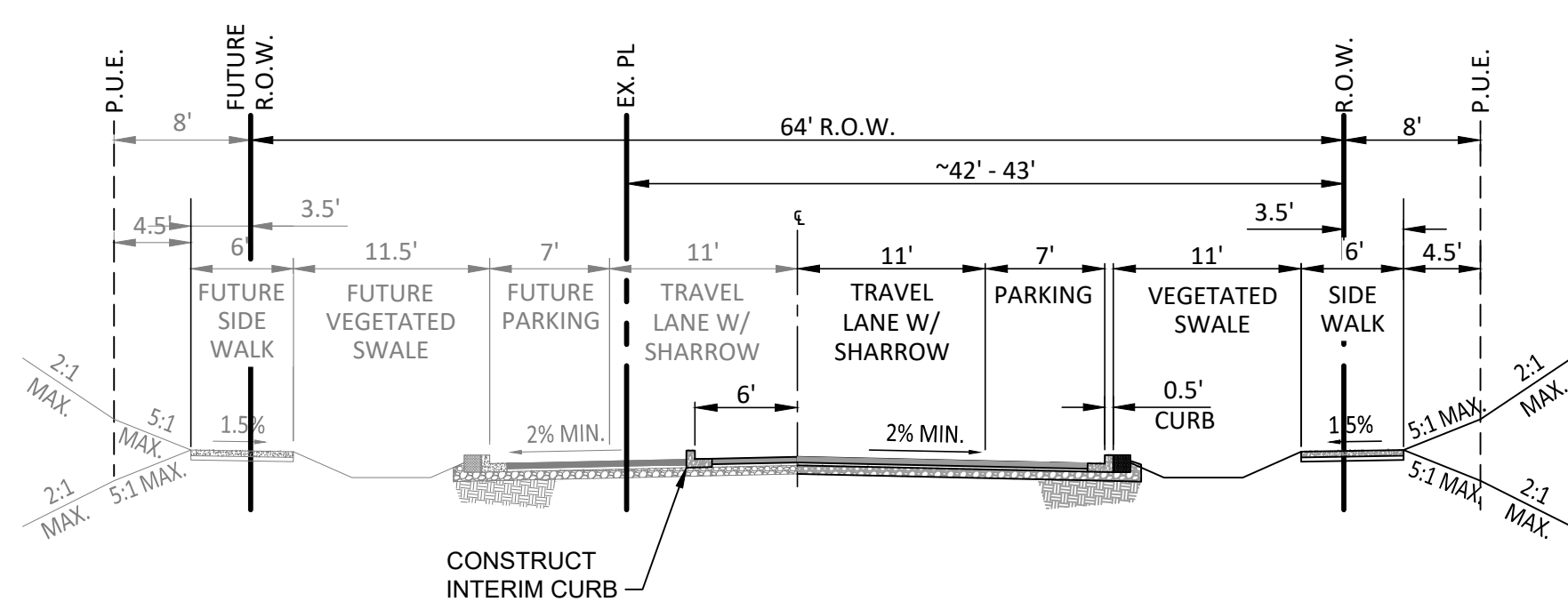
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STATUS	
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DATE	
20015	
PROJECT NUMBER	

P2.00

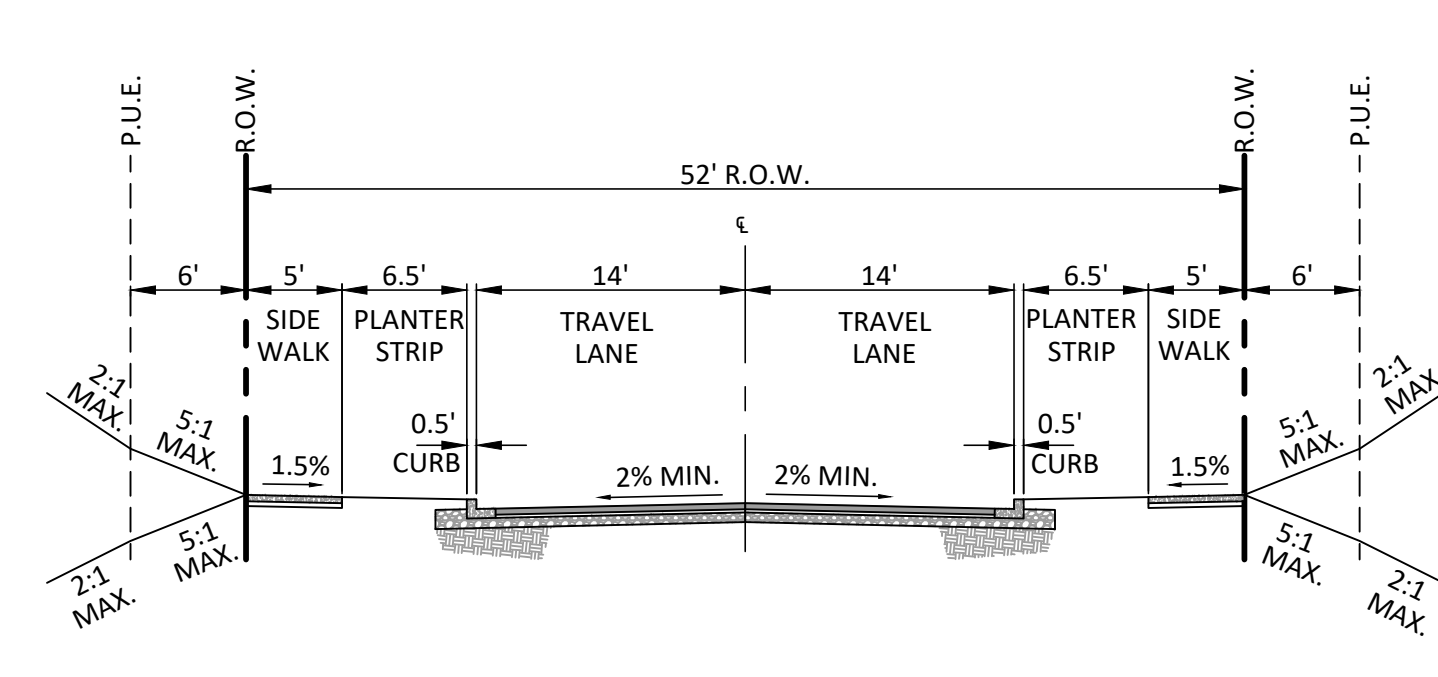
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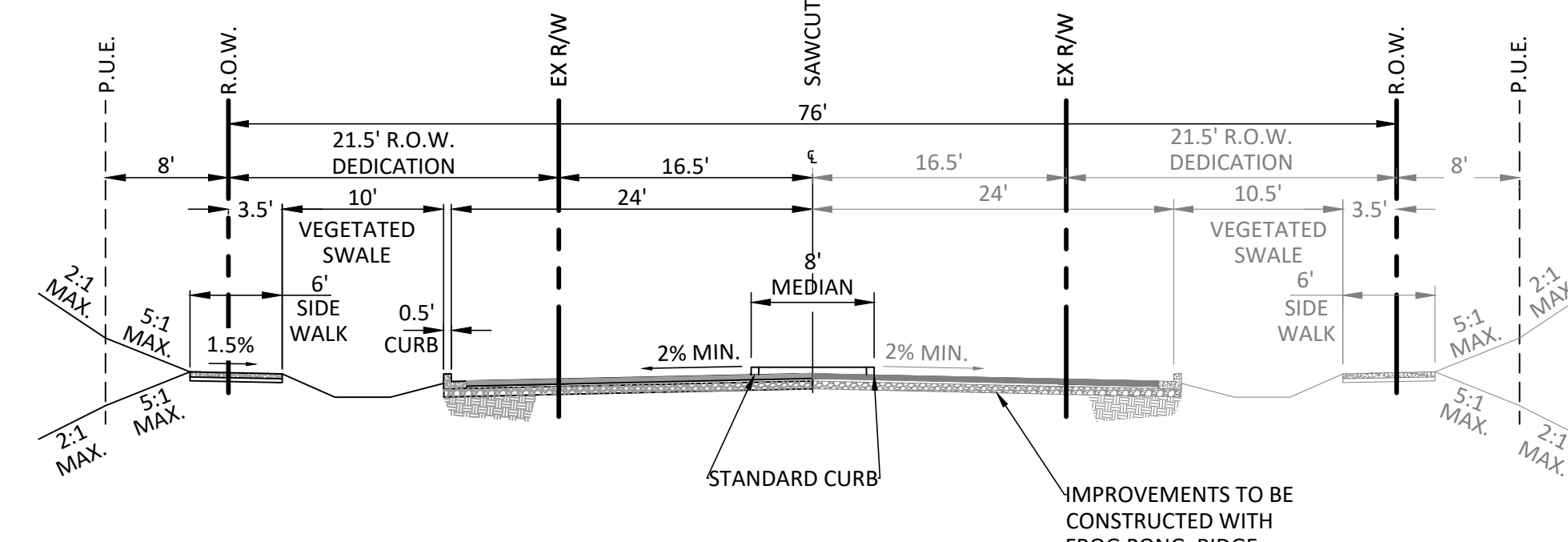
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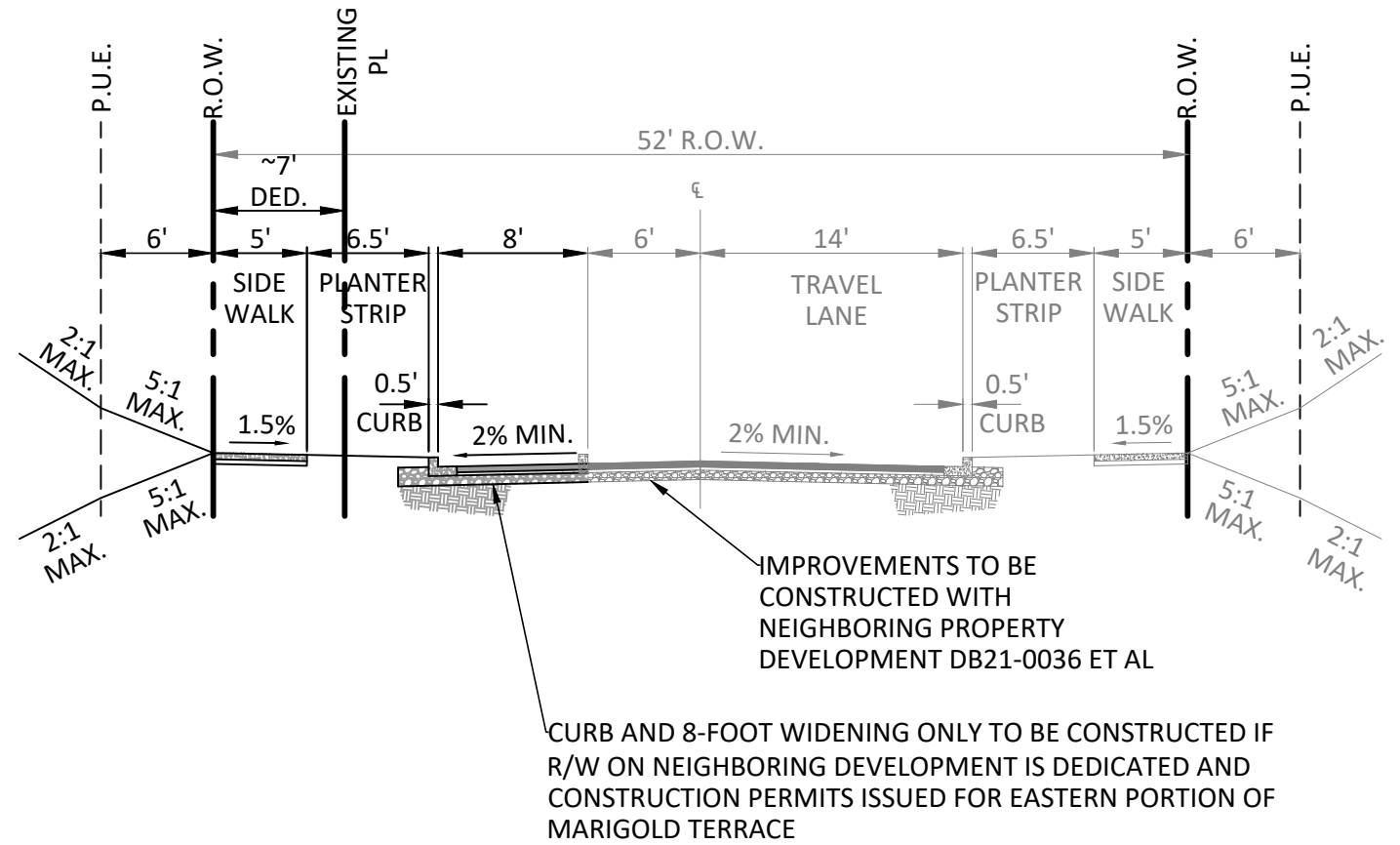
A **WILLOW CREEK DR**
(COLLECTOR - GATEWAY - PARKING ON BOTH SIDES)
SCALE: 1" = 10'-0"



B **STREET C, STREET D, STREET E, LARKSPUR TERRACE**
(LOCAL STREET - PARKING ON BOTH SIDES)
SCALE: 1" = 10'-0"



C **SW FROG POND LN**
(COLLECTOR - GATEWAY - NO PARKING)
SCALE: 1" = 10'-0"

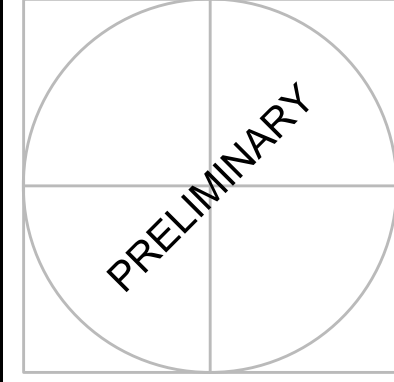


D **SW MARIGOLD TERRACE**
(LOCAL STREET - PARKING ON BOTH SIDES)
SCALE: 1" = 10'-0"

STREET CROSS SECTIONS
SEE SHEET P2.00 FOR SECTION LOCATIONS



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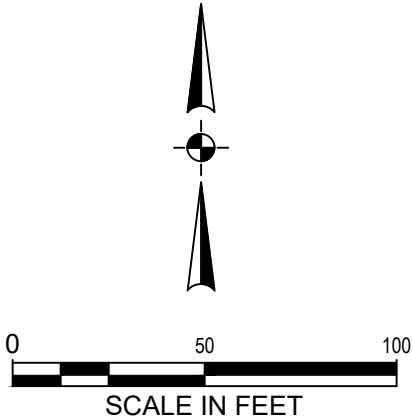
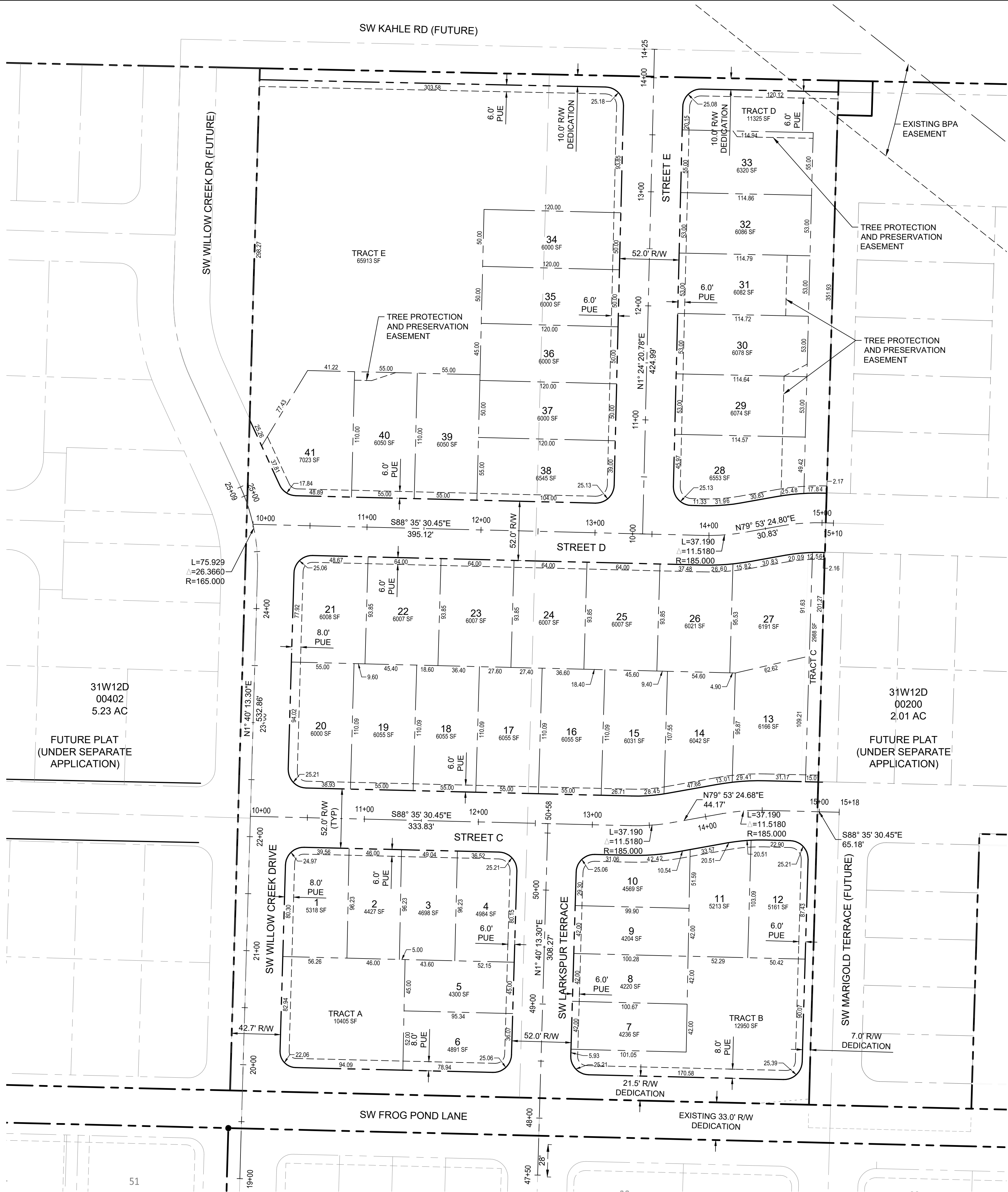


FROG POND OAKS
41 DETACHED SINGLE FAMILY LOTS
CITY OF WILSONVILLE, OREGON

PRELIMINARY STREET CROSS SECTIONS

TITLE		
#	DATE	DESCRIPTION
REVISIONS		
NAVD88 DATUM		
OTAK CAD		KJB
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FEBRUARY 18, 2022 DATE		
20141 PROJECT NUMBER		
P2.10		
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GENERAL NOTES

- 1. TRACTS A AND B ARE FOR STORMWATER TREATMENT PURPOSES AND ARE SUBJECT TO A STORM DRAINAGE AND STORMWATER PIPELINE EASEMENT TO BENEFIT THE CITY OF WILSONVILLE, OVER ITS ENTIRETY.
- 2. TRACTS C THROUGH E ARE FOR NATURAL RESOURCE PURPOSES.
- 3. TRACTS D AND E ARE SUBJECT TO A TREE PROTECTION AND PRESERVATION EASEMENT OVER THEIR ENTIRETY.

LEGEND

PLAT BOUNDARY	---
RIGHT OF WAY	---
CENTER LINE	---
LOT LINE	---
EASEMENT LINE	---
LOT NUMBER / NAME	2

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PRELIMINARY

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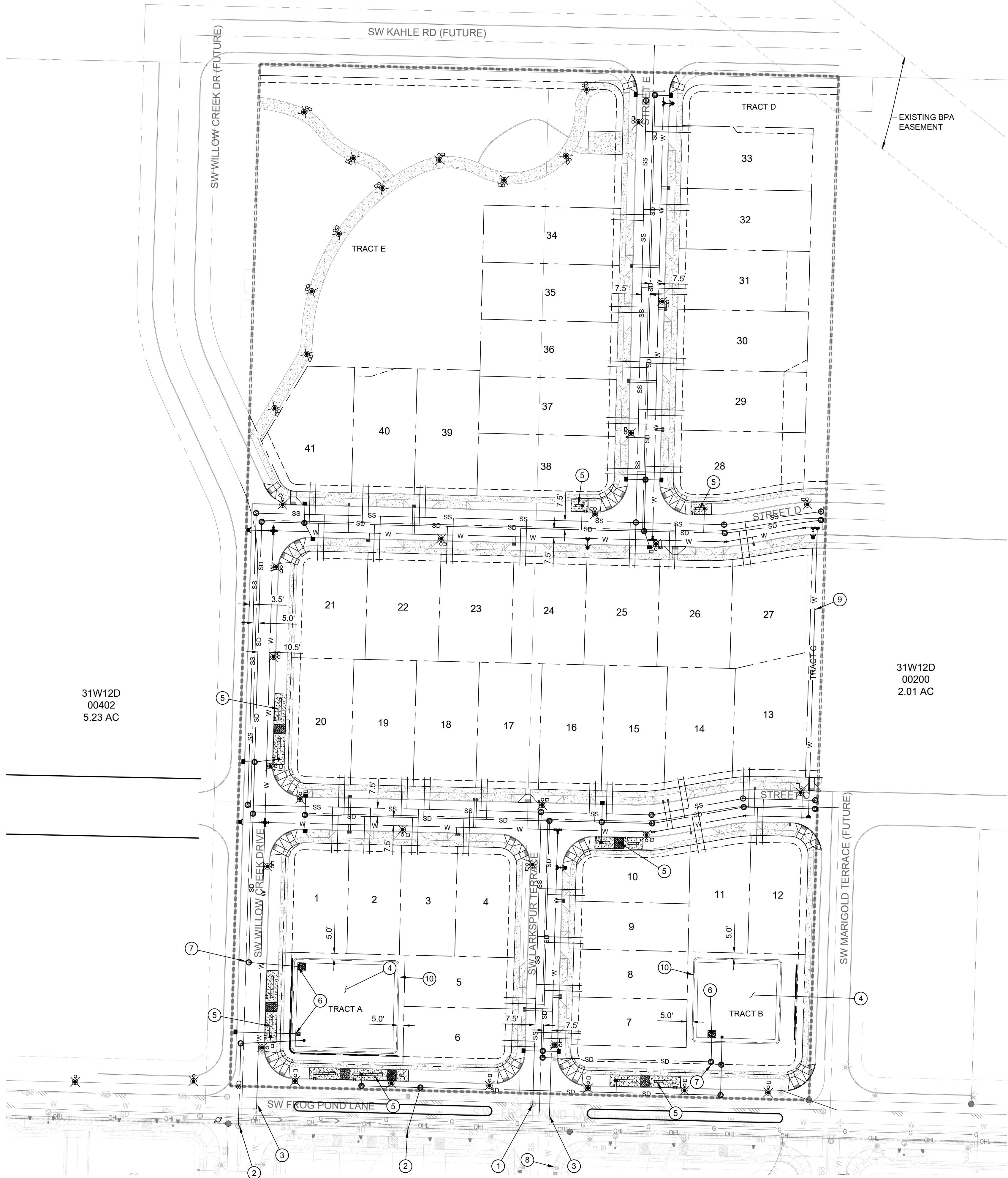
WEST HILLS
LAND DEVELOPMENT
CONSULTANT

FROG POND OAKS
41 DETACHED SINGLE FAMILY LOTS
CITY OF WILSONVILLE, OREGON

PRELIMINARY PLAT

TITLE		
#	DATE	DESCRIPTION
REVISIONS		
NAVD88		
DATUM		
OTAK CAD	KJB	
DRAWN BY	CHECKED BY	
LAND USE SUBMITTAL		
STATUS		
FEBRUARY 18, 2022		
DATE		
20141		
PROJECT NUMBER		
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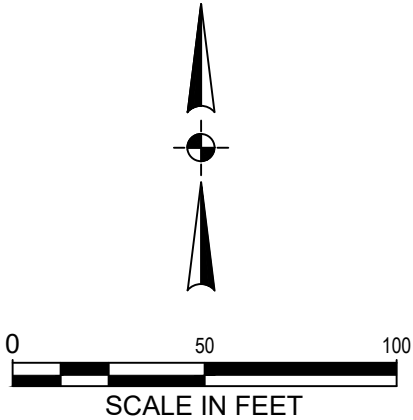


UTILITY KEY NOTES

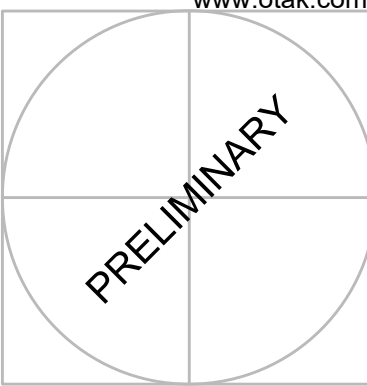
- 1 CONNECT TO EXISTING SANITARY SEWER.
- 2 CONNECT TO EXISTING STORM SEWER.
- 3 CONNECT TO EXISTING WATER LINE.
- 4 PROPOSED RAIN GARDEN (CITY STD. DWG. ST-6020)
- 5 PROPOSED VEGETATED SWALE (CITY STD. DWG. ST-6045 W/ 12" WIDE CONCRETE STEP-OFF WALK ADJACENT TO PAVEMENT.
- 6 STORM SEWER OUTFALL TO RAIN GARDEN.
- 7 PROPOSED WATER QUALITY MANHOLE.
- 8 EXISTING FIRE HYDRANT.
- 9 CONSTRUCT TEMPORARY 4-INCH WATER LINE IN 15-FOOT EASEMENT IF WATERLINE PERMITS HAVE NOT BEEN ISSUED FOR NEIGHBORING DEVELOPMENT TO EAST. OTHERWISE, TIE-IN WATERLINES TO EAST PROPERTY BOUNDARY FOR STREETS C AND D.
- 10 PROPOSED TOP OF RAIN GARDEN FREEBOARD SURFACE.

LEGEND

SITE	PROPOSED
PROJECT BOUNDARY	-----
STORM DRAIN MANHOLE	Ⓢ
STORM DRAIN CLEAN OUT	Ⓢ
LIDA FLOW CONTROL STRUCTURE (BEEHIVE: CITY STANDARD DWG. ST-6120)	•
CATCH BASIN	■
STORM DRAIN MAIN	SD
STORM DRAIN LATERAL	SD
SANITARY SEWER MANHOLE	Ⓢ
SANITARY SEWER CLEAN OUT	Ⓢ
SANITARY SEWER MAIN	SS
SANITARY SEWER LATERAL	SS
WATER VALVE	⌘
WATER BLOW-OFF	⌘
WATER METER	⌘
WATER FIRE HYDRANT	⌘
WATER MAIN	W
WATER LATERAL	W
PUBLIC LIDA W/CURB OPENINGS (CITY STD. DWG. ST-6012)	⌘
STREET LIGHT PGE OPTION "B" LED WITH WESTBROOKE 35W LED AND 18" DECORATIVE ALUMINUM POLE (20' MOUNTING HEIGHT W/ 4' MAST ARM)	⌘



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STAMP

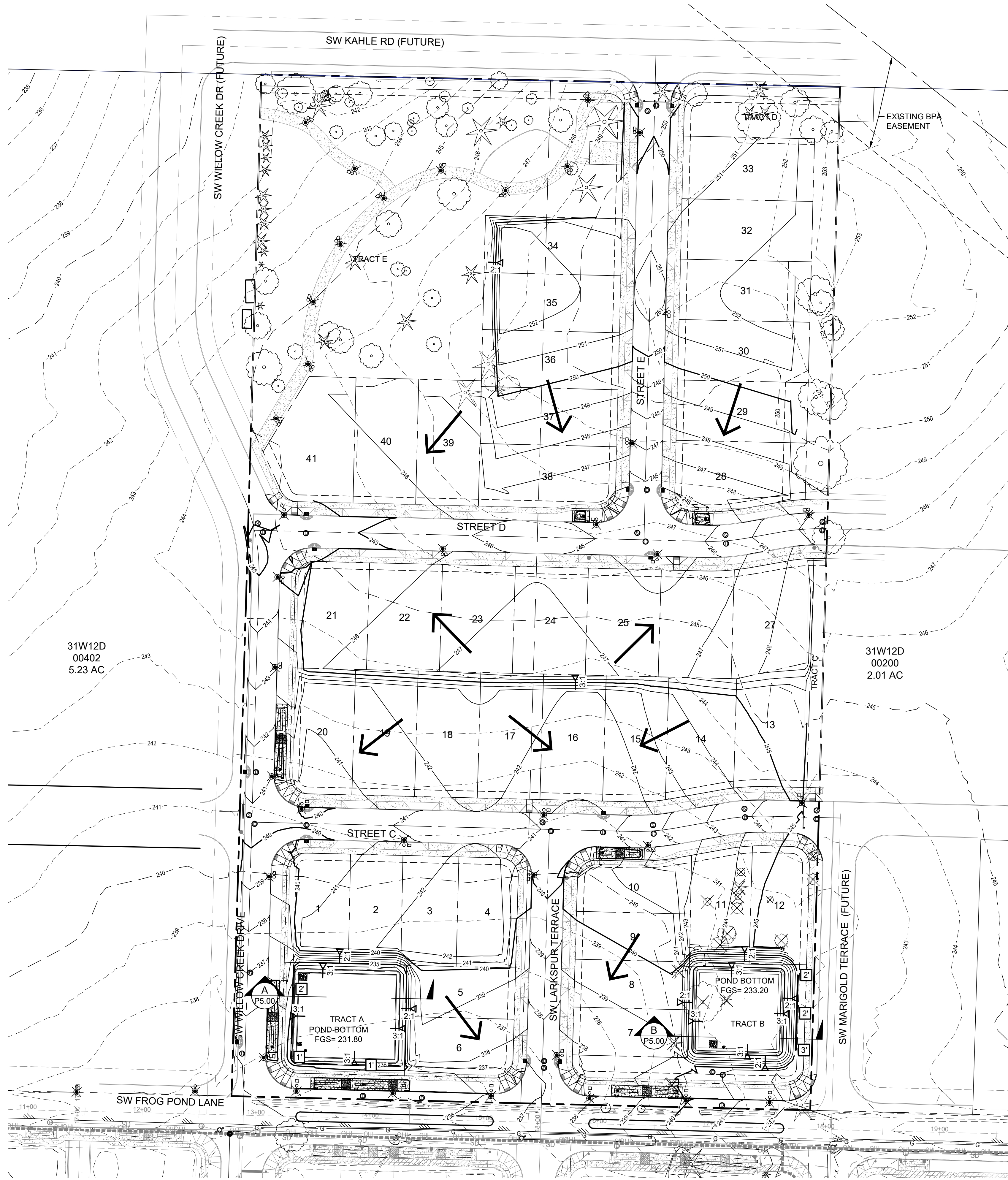


LAND DEVELOPMENT
CONSULTANT

FROG POND OAKS
41 DETACHED SINGLE FAMILY LOTS
CITY OF WILSONVILLE, OREGON

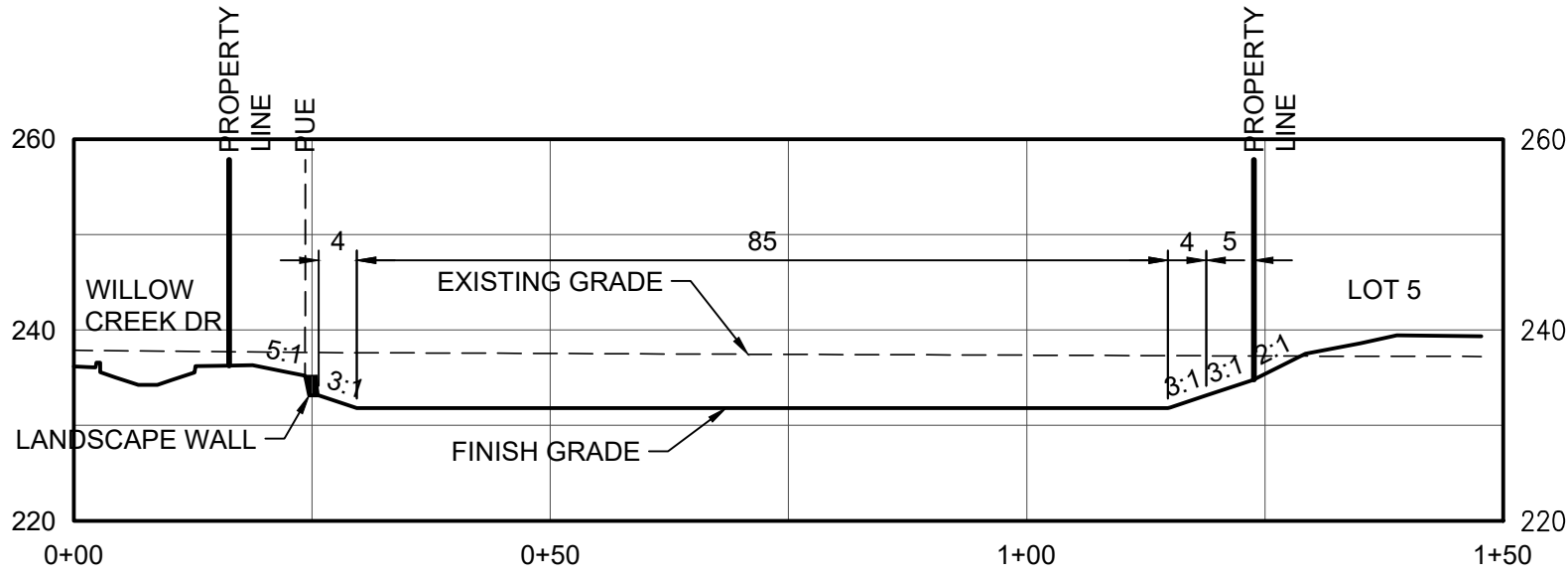
PRELIMINARY UTILITY PLAN

TITLE		
#	DATE	DESCRIPTION
REVISIONS		
NAVD83 DATUM		
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LAND USE SUBMITTAL STATUS		
FEBRUARY 18, 2022		
DATE		
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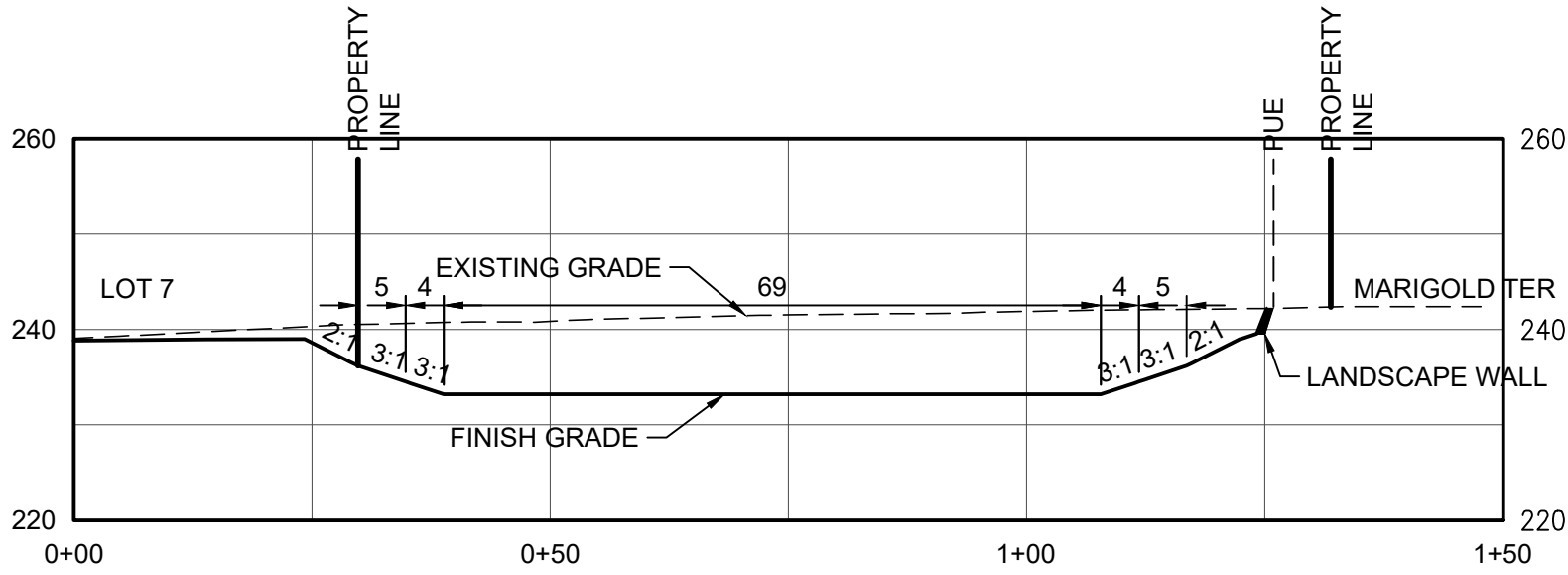


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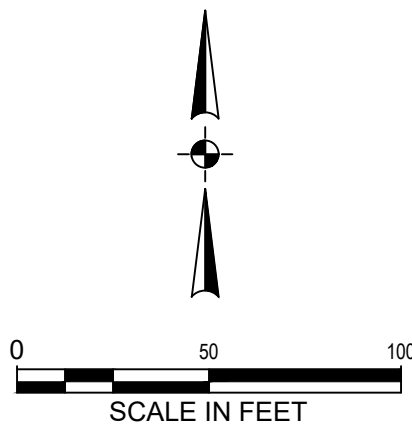
- EXISTING 1' CONTOUR
- EXISTING 5' CONTOUR
- PROPOSED 1' CONTOUR
- PROPOSED 5' CONTOUR
- RETAINING WALL
- LOT FLOW ARROW
- EXISTING TREES TO REMAIN
- EXISTING TREES TO BE REMOVED
- APPROXIMATE WALL HEIGHT



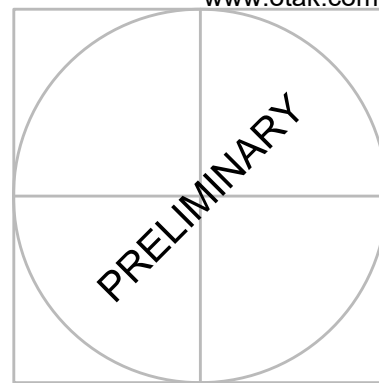
SECTION A-A



SECTION B-B



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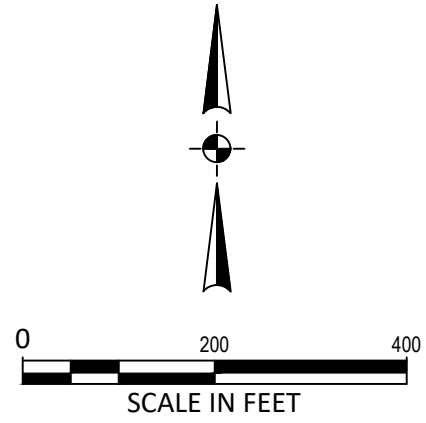


FROG POND OAKS
41 DETACHED SINGLE FAMILY LOTS
CITY OF WILSONVILLE, OREGON

PRELIMINARY GRADING PLAN

TITLE		
#	DATE	DESCRIPTION
REVISIONS		
NAV/D88 DATUM		
OTAK CAD		KJB
DRAWN BY		CHECKED BY
LAND USE SUBMITTAL STATUS		
FEBRUARY 18, 2022 DATE		
20141 PROJECT NUMBER		
P5.00		
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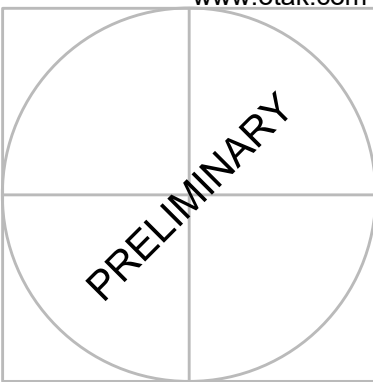


LEGEND

- PROJECT LIMITS
- EXISTING CITY LIMITS
- EXISTING URBAN GROWTH BOUNDARY
- PROPOSED AREA TO BE ANNEXED TO THE CITY OF WILSONVILLE



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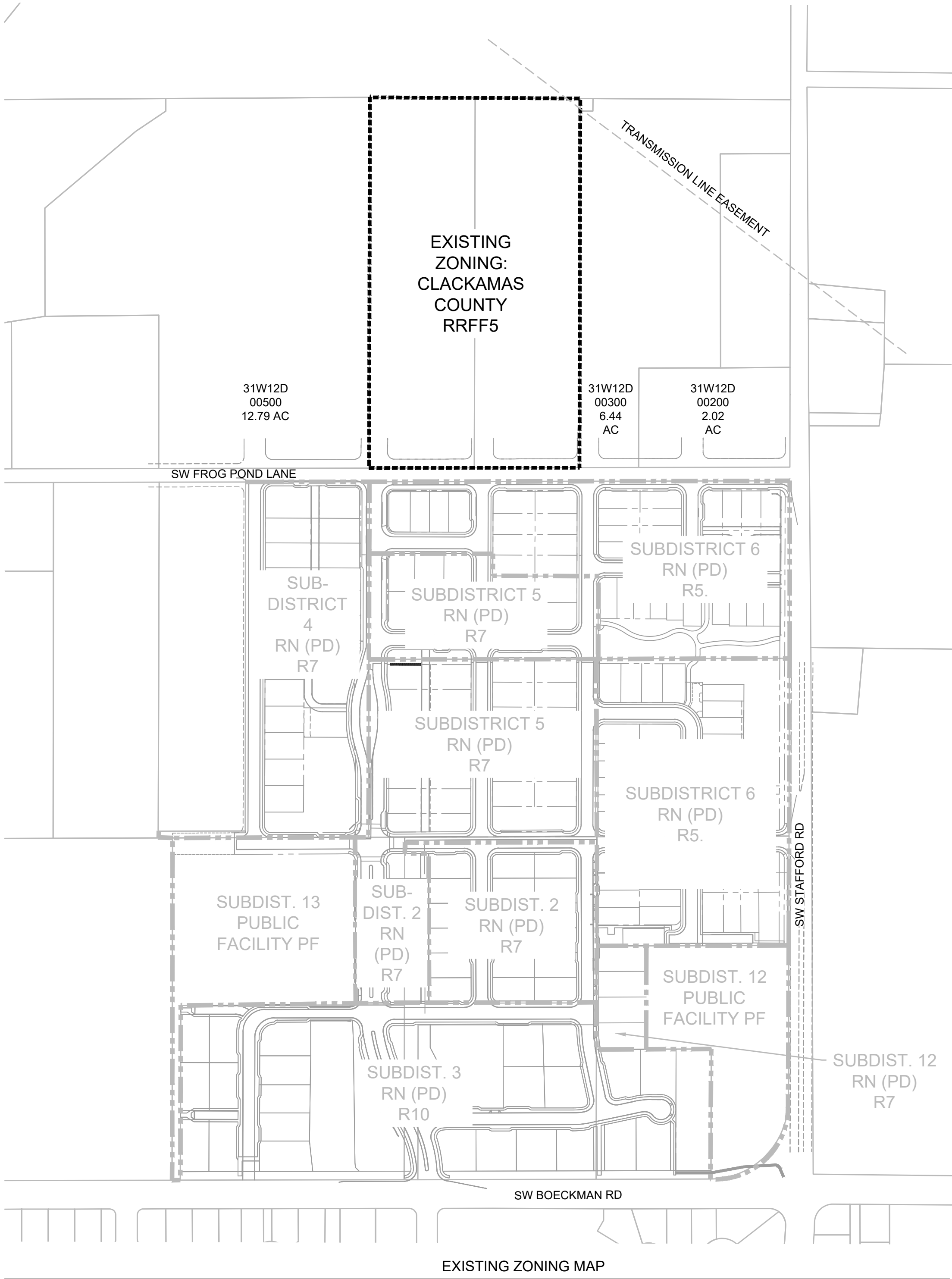


FROG POND OAKS
41 DETACHED SINGLE FAMILY LOTS
CITY OF WILSONVILLE, OREGON

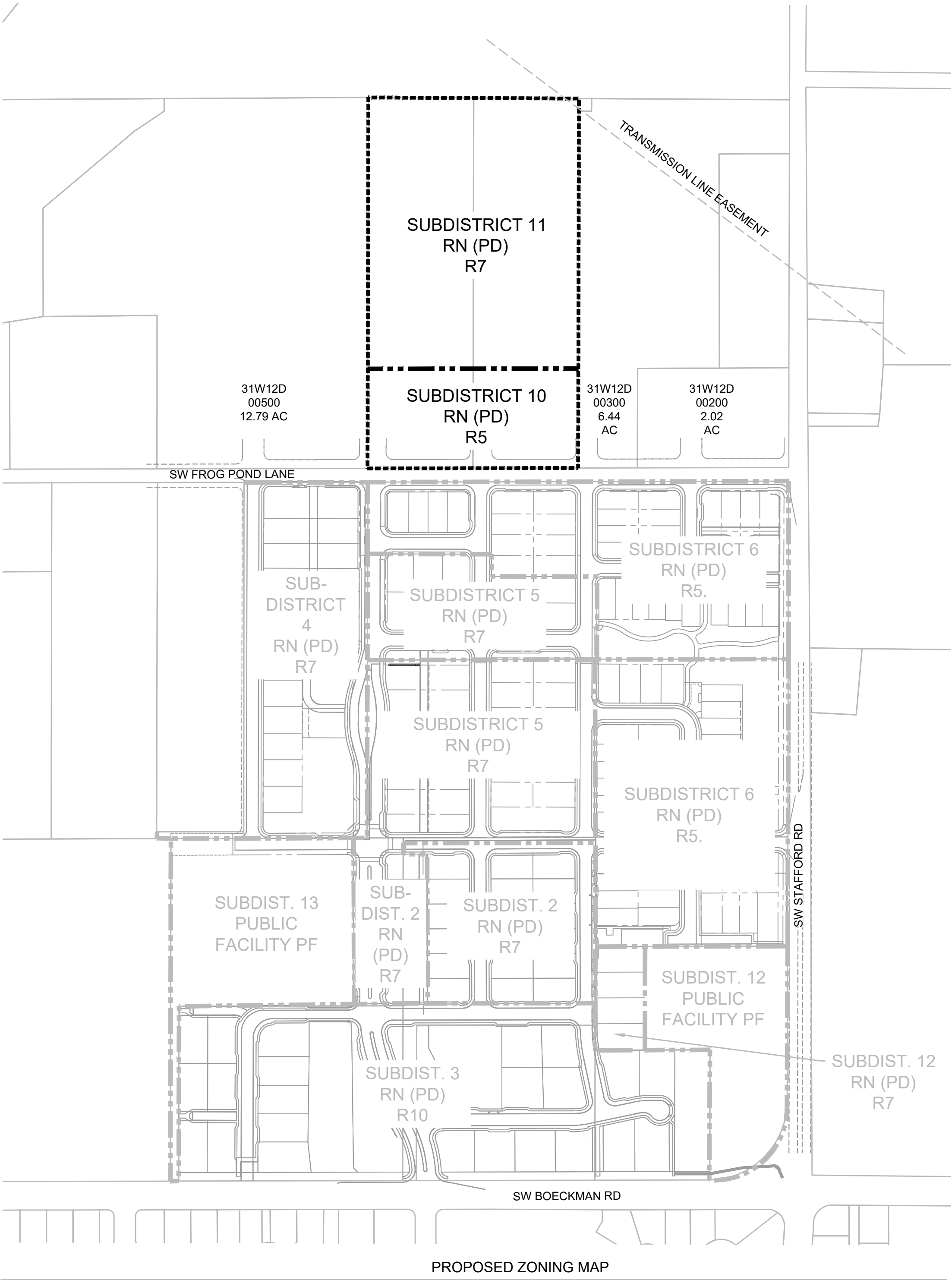
ANNEXATION PLAN

TITLE		
#	DATE	DESCRIPTION
REVISIONS		
NAV/D88 DATUM		
OTAK CAD		KJB
DRAWN BY		CHECKED BY
LAND USE SUBMITTAL STATUS		
FEBRUARY 18, 2022 DATE		
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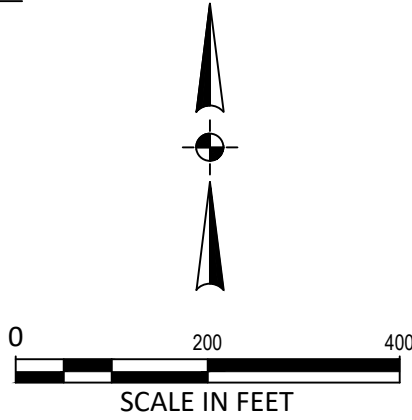
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EXISTING ZONING: CLACKAMAS COUNTY RRFF5



PROPOSED ZONING: CITY OF WILSONVILLE RESIDENTIAL NEIGHBORHOOD RN WITH PLANNED DEVELOPMENT PD OVERLAY

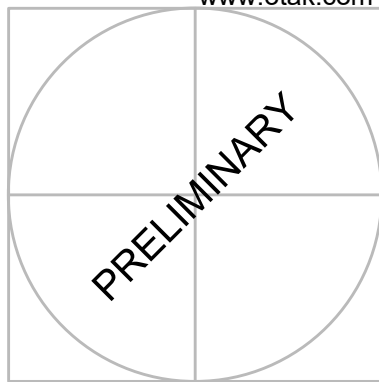


LEGEND

- PROJECT LIMITS
- SUBDISTRICT LINE



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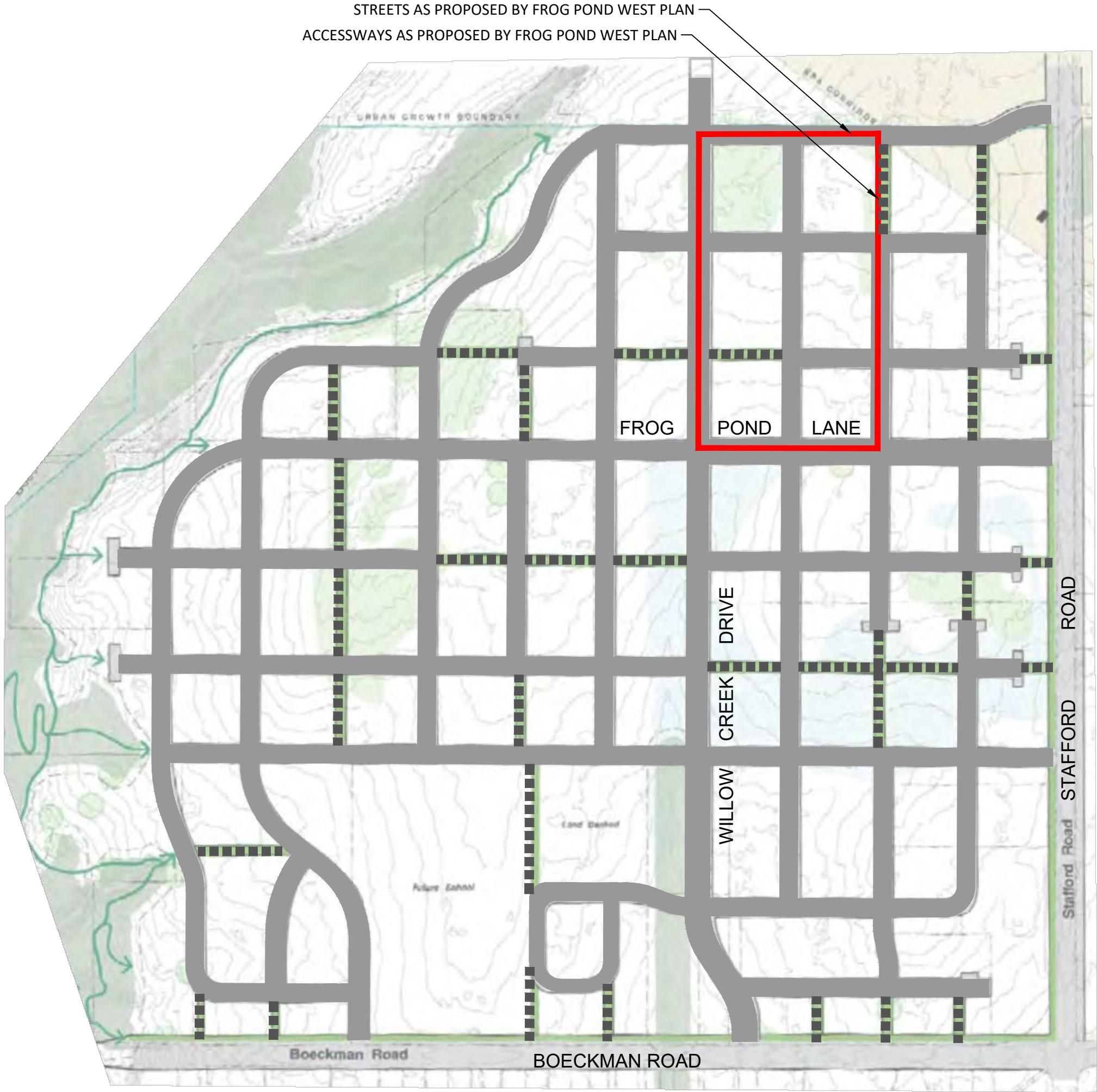


FROG POND OAKS
41 DETACHED SINGLE FAMILY LOTS
CITY OF WILSONVILLE, OREGON

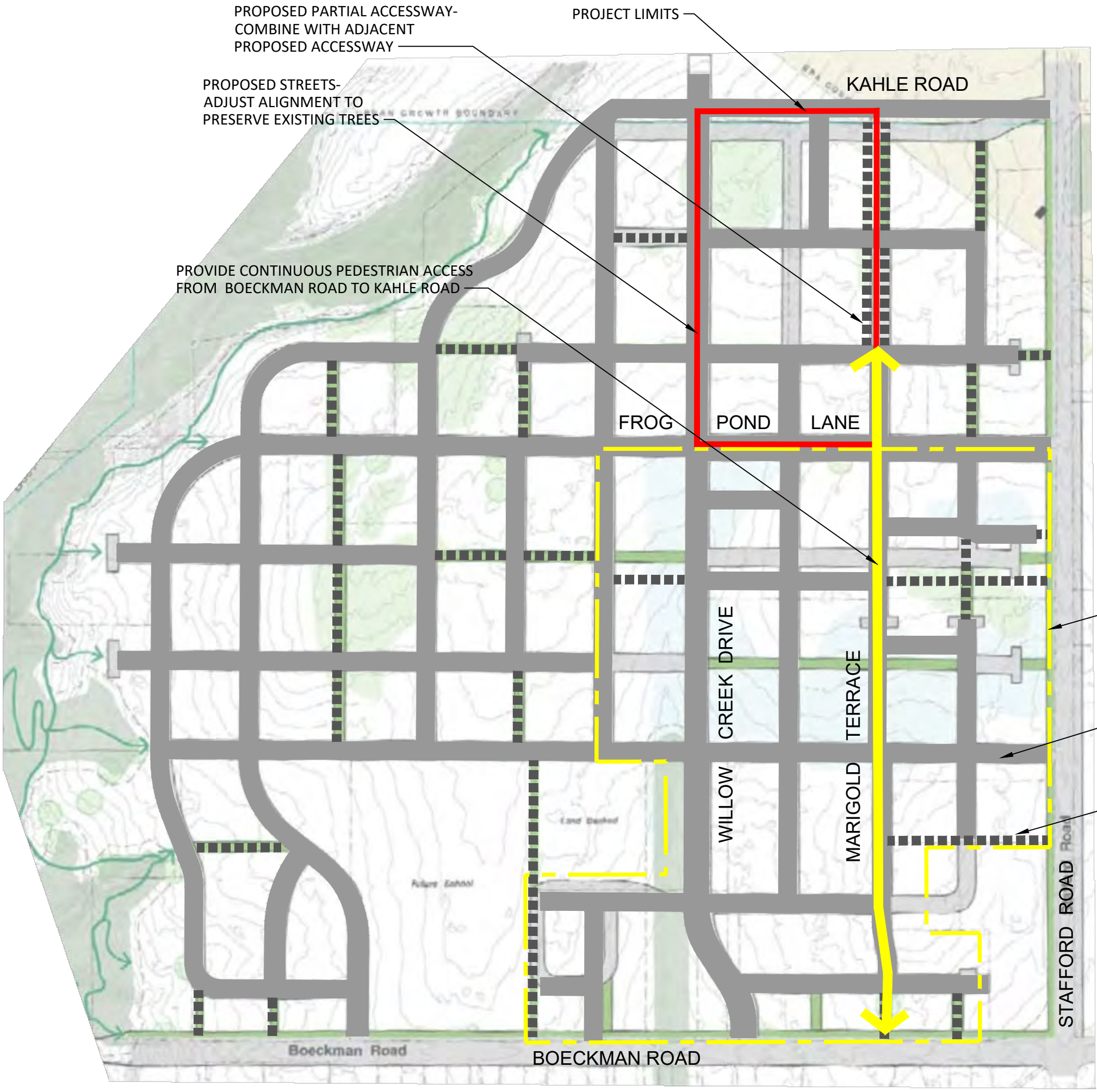
ZONING MAP

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#	DATE	DESCRIPTION
REVISIONS		
NAVD88 DATUM		
OTAK CAD		KJB
DRAWN BY		CHECKED BY
LAND USE SUBMITTAL STATUS		
FEBRUARY 18, 2022 DATE		
20141 PROJECT NUMBER		
P7.00		
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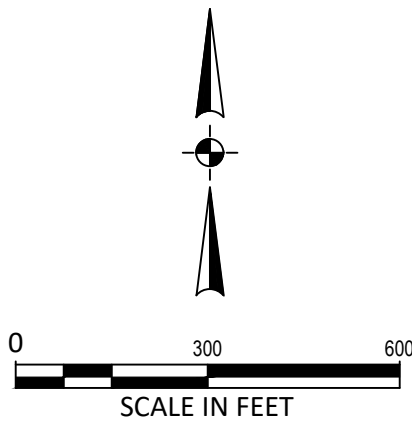
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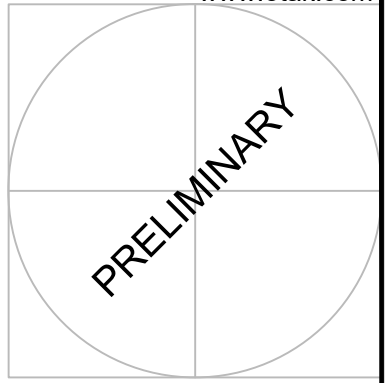
STREET DEMONSTRATION PLAN
PER FROG POND WEST MASTER PLAN



PROPOSED CIRCULATION AND CONNECTIVITY PLAN



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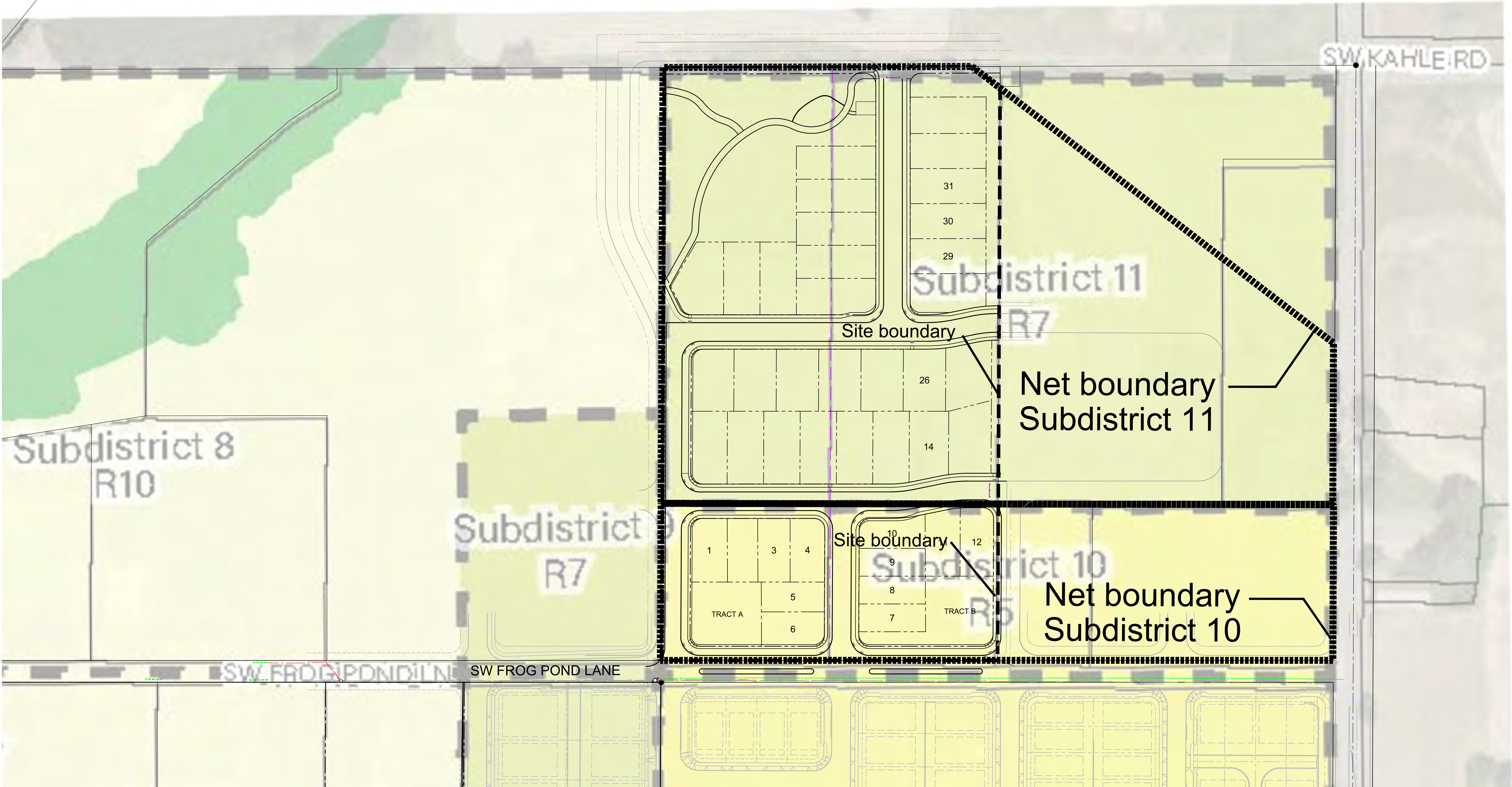


FROG POND OAKS
41 DETACHED SINGLE FAMILY LOTS
CITY OF WILSONVILLE, OREGON

PROPOSED CIRCULATION AND CONNECTIVITY

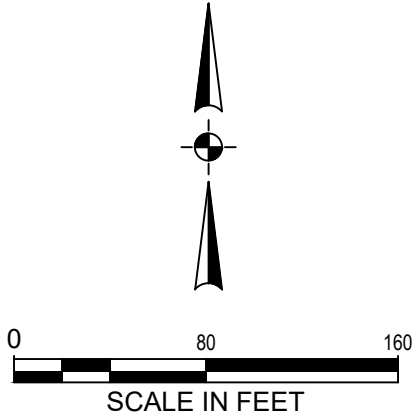
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LAND USE SUBMITTAL STATUS		
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Frog Pond Oaks
Density Calculations

Subdistrict	Net Subdistrict Area (sf)	Net Subdistrict Area (ac)	Proposed Site area (sf)	Proposed Site area (ac)	Percentage of Subdistrict	Minimum Units Allowed in Subdistrict	Maximum Units Allowed in Subdistrict	Minimum Units Allowed on Site	Maximum Units Allowed on Site	Proposed Lots
10	239,637	5.50	120,353	2.76	50.22%	30	38	15	19	12
11	554,964	12.74	334,573	7.68	60.29%	46	58	28	35	29
			454,926	10.44						



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FROG POND OAKS
41 DETACHED SINGLE FAMILY LOTS
CITY OF WILSONVILLE, OREGON

SUBDISTRICTS AND DENSITY

#	DATE	DESCRIPTION

REVISIONS

NAV/D88
DATUM

OTAK CAD
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STATUS

FEBRUARY 18, 2022
DATE

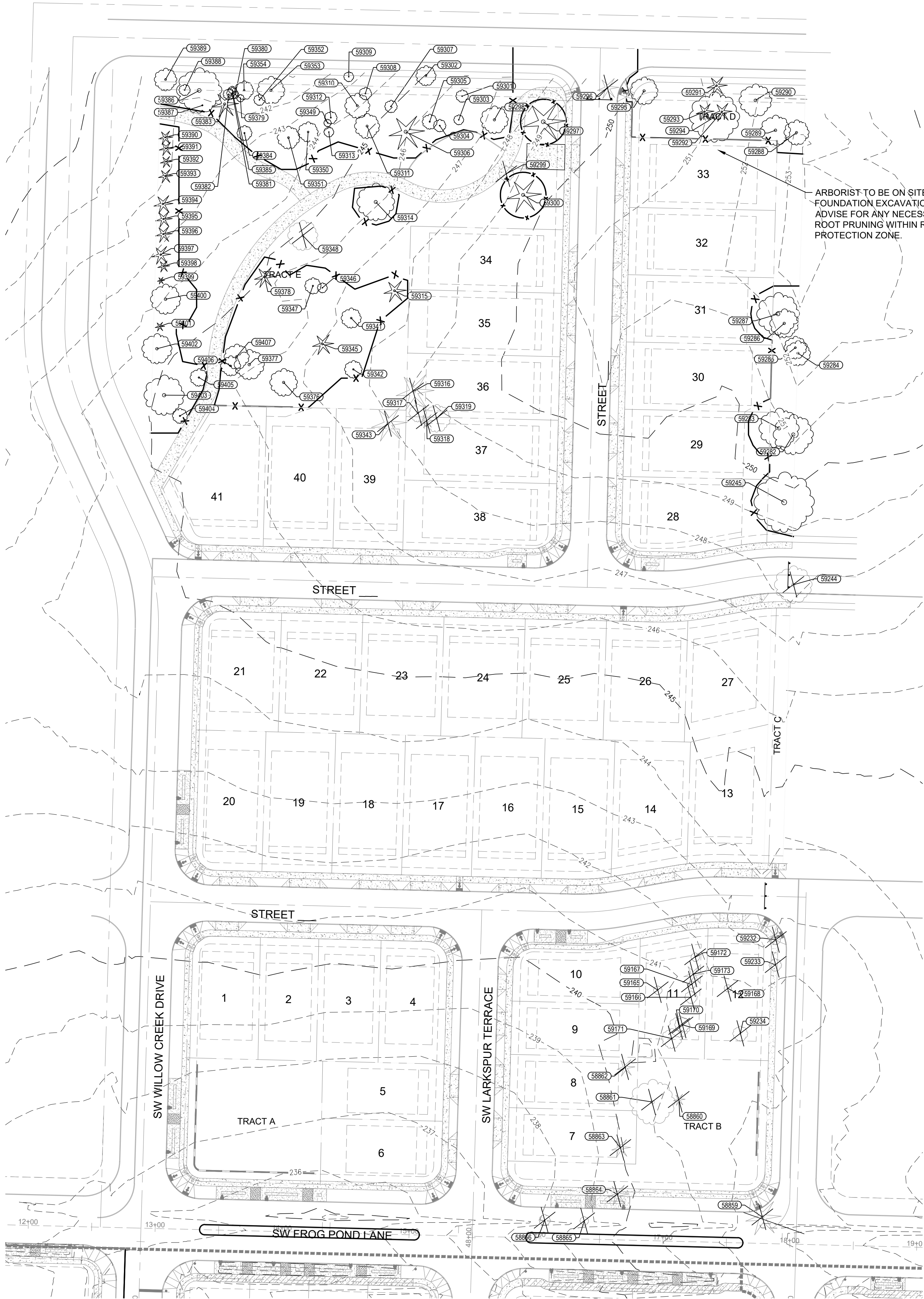
20141
PROJECT NUMBER

P9.00

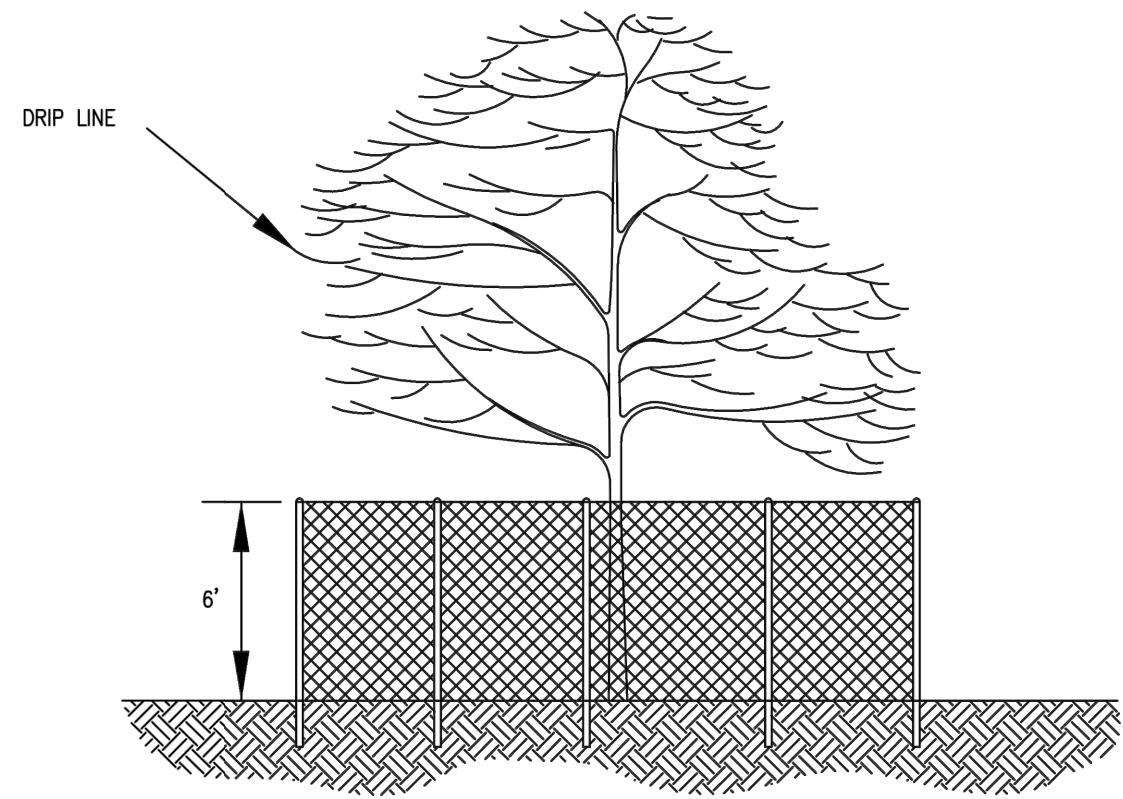
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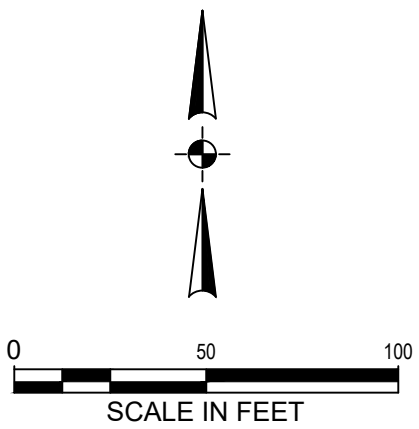
- NOTES:
1. FENCE SHALL BE 6' IN HEIGHT AND SET AT TREE DRIP LINE.
 2. FENCE MATERIALS SHALL CONSIST OF 2" MESH CHAIN LINKS SECURED TO A MINIMUM 1 1/2" DIA. STEEL OR ALUMINUM LINE POSTS.
 3. POSTS SHALL BE SET TO A DEPTH OF NO LESS THAN 2 FEET IN NATIVE SOIL.
 4. FENCE SHALL REMAIN IN PLACE UNTIL THE COMPLETION OF CONSTRUCTION ACTIVITIES. MOVEMENT OR REMOVAL OF FENCE REQUIRES APPROVAL BY CITY'S AUTHORIZED REPRESENTATIVE.

Tree Protection Fencing			CITY OF WILSONVILLE PUBLIC WORKS STANDARDS
DRAWING NUMBER: R-1155	DRAWN BY: GCF	SCALE: N.T.S.	
FILE NAME: R-1155.dwg	APPROVED BY: MAS	DATE: 11/01/03	

TREE PLAN LEGEND

SYMBOL	QTY	DESCRIPTION
	28	EXISTING TREES TO BE REMOVED
	77	EXISTING TREES TO REMAIN
	2,029 LF	TREE PROTECTION FENCING

- NOTES:
1. SEE TREE TABLES SHEET L1.10. ACTION ON TREE TABLES SUPERCEDES THIS SHEET.
 2. TREES TO REMAIN TO HAVE TREE PROTECTION FENCING INSTALLED PER CITY OF WILSONVILLE STANDARD DRAWING ON THIS SHEET.
 3. NO MATERIAL STORAGE OR DUMPING OF ANY KIND SHALL OCCUR WITHIN THE DRIP LINE OF TREE.



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FROG POND OAKS
41 DETACHED SINGLE FAMILY LOTS
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TREE PROTECTION AND REMOVAL PLAN

TITLE		
#	DATE	DESCRIPTION
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NAVDS88 DATUM		
OTAK CAD		KJB
DRAWN BY		CHECKED BY
LAND USE SUBMITTAL STATUS		
FEBRUARY 18, 2022 DATE		
20141 PROJECT NUMBER		

L1.00

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10/25/2021Frog Pond Oaks						10/25/2021Frog Pond Oaks					
Tag	Species	Diameter	Rating	Cr. D	Remarks	RPZ	Action				
58859	Western Redcedar	29	1	26	dead top; terminal decline; wood borers	20	remove				
58860	Missing Tree	10	0	10	Felled by Ice storm	10	remove				
58861	weeping willow	45	0	44	Felled by Ice storm	0	remove				
58862	Norway spruce	16	2	30	viable; sparse	10	remove				
58863	shore pine	17	2	28	viable; broken scaffold branches	12	remove				
58864	Scots pine	19	1	23	chlorotic; asymmetry; leans to road	12	remove				
58865	Oregon white oak	8	2	12	viable	8	remove				
58866	Oregon white oak	10	2	20	viable	8	remove				
59165	Missing Tree	7	0		Felled by Ice storm		remove				
59166	Missing tree	10	0		Felled by Ice storm		remove				
59167	Missing Tree	6	0		Felled by Ice storm		remove				
59168	Kanzan cherry	16	2	20	viable; size estimated	10	remove				
59169	Missing Tree	12	0		Felled by Ice storm		remove				
59170	Missing Tree	17	0		Felled by Ice storm		remove				
59171	Missing Tree	16	0		Felled by Ice storm		remove				
59172	Scots pine	0	0	0	dead-has since been cut down for safety	0	remove				
59173	Missing Tree	17	0		Felled by Ice storm	17	remove				
59232	sweet cherry	8	2	12	invasive species; size estimated	8	remove				
59233	sweet cherry	12	2	18	invasive species; size estimated	8	remove				
59234	Kanzan cherry	18	2	36	viable; size estimated	12	remove				
59244	Oregon white oak	30	2	44	viable	20	remove				
59245	Oregon white oak	62	2	50	viable; codominant @8'	25	protect				
59282	Oregon white oak	38	2	46	viable	25	protect				
59283	Oregon white oak	38	2	48	viable	25	protect				
59284	Oregon white oak	25	2	38	viable	16	protect				
59285	Oregon white oak	19	2	40	viable	12	protect				
59286	Oregon white oak	25	2	26	viable	16	protect				
59287	Oregon white oak	34	2	42	viable	22	protect				
59288	Oregon white oak	28	2	32	viable; 20" lateral @1'; cavity @ junction	18	protect				
59289	Oregon white oak	28	2	28	viable; one sited; OTAK has photo	18	protect				
59290	sweet cherry	16	2	28	invasive species	10	protect				
59291	Douglas fir	16	1	14	viable; grows through limbs of T59294	10	protect				
59292	Douglas fir	19	2	20	viable	12	protect				
PN-						0/dead or hazard 1/decline 2/average 3/excellent					

10/25/2021Frog Pond Oaks						10/25/2021Frog Pond Oaks					
59349	black hawthorn	6	2	10	viable	8	protect				
59350	Oregon white oak	26	2	32	viable	16	protect				
59351	Oregon white oak	38	2	50	viable	25	protect				
59352	black hawthorn	9	2	20	broken stem	8	protect				
59353	Oregon white oak	22	2	40	viable	14	protect				
59354	English hawthorn	14	1	22	invasive species	10	protect				
59376	Oregon white oak	48	2	52	viable	25	protect				
59377	Oregon white oak	34	2	56	viable	22	protect				
59378	Douglas fir	28	2	30	viable; codominant @4'	18	protect				
59379	service berry	12	1	18	listed	8	protect				
59380	black hawthorn	6	1	16	excessive lean	8	protect				
59381	black hawthorn	9	2	20	viable	8	protect				
59382	black hawthorn	8	2	20	viable	8	protect				
59383	Douglas fir	23	2	26	viable	16	protect				
59384	black hawthorn	16	1	16	broken stem	10	protect				
59386	Douglas fir	34	2	36	viable	22	protect				
59387	service berry	6	2	12	viable	8	protect				
59388	Oregon white oak	12	2	24	viable; codominant from base	8	protect				
59389	Oregon white oak	20	2	40	viable	14	protect				
59390	Scots pine	12	2	18	viable; hedgerow	8	protect				
59391	Scots pine	12	2	14	viable; hedgerow	8	protect				
59392	Scots pine	10	2	18	viable; hedgerow	8	protect				
59393	Scots pine	12	2	20	viable; hedgerow	8	protect				
59394	Scots pine	16	2	24	viable; hedgerow; codominant @ 8'	10	protect				
59395	Scots pine	14	2	26	viable; hedgerow	8	protect				
59396	Scots pine	14	2	22	viable; hedgerow	8	protect				
59397	Scots pine	16	2	28	viable; hedgerow	10	protect				
59398	Scots pine	10	2	16	viable; hedgerow	8	protect				
59399	Scots pine	8	2	10	viable; hedgerow	8	protect				
59400	Oregon white oak	34	2	48	viable	22	protect				
59401	Scots pine	8	2	16	viable	8	protect				
59402	Oregon white oak	38	2	38	viable	25	protect				
59403	Oregon white oak	52	2	56	viable; multiple stems from 8'	25	protect				
59404	sweet cherry	14	2	20	invasive species	10	protect				
PN-						0/dead or hazard 1/decline 2/average 3/excellent					

10/25/2021Frog Pond Oaks						10/25/2021Frog Pond Oaks					
59293	Douglas fir	14	1	14	viable; grows through limbs of T59294	10	protect				
59294	Oregon white oak	52	2	54	viable; ivy	34	protect				
59295	sweet cherry	16	2	30	invasive species	10	protect				
59296	Douglas fir	14	2	20	viable	10	remove				
59297	ponderosa pine	36	2	36	viable	24	protect				
59298	Oregon white oak	22	2	30	viable	14	protect				
59299	sweet cherry	12	0	1	fell over	0	remove				
59300	ponderosa pine	29	2	36	viable	20	protect				
59301	English hawthorn	16	2	20	invasive species	10	protect				
59302	Scouler willow	35	1	36	basal decay; multiple stump suckers	22	protect				
59303	English hawthorn	8	2	2	invasive species	8	protect				
59304	Douglas fir	12	1	20	listed	8	protect				
59305	black hawthorn	12	2	12	viable		protect				
59306	ponderosa pine	45	2	42	viable; codominant from base	25	protect				
59307	black hawthorn	10	1	14	broken tops	8	protect				
59308	black hawthorn	10	2	14	viable	8	protect				
59309	black hawthorn	8	2	14	viable	8	protect				
59310	Scouler willow	20	2	26	viable	14	protect				
59311	black hawthorn	20	2	36	viable	14	protect				
59312	black hawthorn	10	2	14	viable	8	protect				
59313	black hawthorn	8	2	18	viable	8	protect				
59314	Oregon white oak	32	2	34	viable	20	protect				
59315	ponderosa pine	18	2	24	viable; potential windthrow	12	protect				
59316	ponderosa pine	32	0	0	broke @ 30'	20	remove				
59317	Oregon white oak	20	2	20	viable; multiple stems from base	14	remove				
59318	Douglas fir	12	2	16	viable	8	remove				
59319	Oregon white oak	22	2	28	viable	14	remove				
59341	Oregon white oak	24	2	40	viable	16	protect				
59342	sweet cherry	14	1	12	invasive species; trunk decay	10	protect				
59343	ponderosa pine	30	2	36	viable; limited access; blackberries	20	remove				
59345	ponderosa pine	22	2	26	viable; potential windthrow	14	protect				
59346	sweet cherry	6	2	18	invasive species	8	protect				
59347	Oregon white oak	20	2	30	viable	14	protect				
59348	Oregon white oak	52	0	58	inclusion @ base; base is hollow	25	remove				
PN-						0/dead or hazard 1/decline 2/average 3/excellent					

10/25/2021Frog Pond Oaks						10/25/2021Frog Pond Oaks					
59405	Oregon white oak	15	2	20	viable	10	protect				
59406	ponderosa pine	17	1	12	windthrow hazard	12	protect				
59407	Oregon white oak	20	2	34	viable	14	protect				
PN-						0/dead or hazard 1/decline 2/average 3/excellent					

Scientific Name	Common Name
Amilanchier alnifolia	SERVICEBERRY
Crataegus douglasii	BLACK HAWTHORN
Crataegus laevigata	ENGLISH HAWTHORN
Picea abies	NORWAY SPRUCE
Pinus contorta	SHORE PINE
Pinus ponderosa	PONDEROSA PINE
Pinus sylvestris	SCOTS PINE
Prunus 'Kanzan'	KANZAN CHERRY
Prunus spp.	SWEET CHERRY
Pseudotsuga menziesii	DOUGLAS FIR
Quercus garryana	OREGON WHITE OAK
Salix babylonica	WEEPING WILLOW
Salix scouleriana	SCOULER WILLOW
Thuja plicata	WESTERN REDCEDAR

TITLE		
#	DATE	DESCRIPTION
REVISIONS		
NAV/D88		
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41 DETACHED SINGLE FAMILY LOTS
CITY OF WILSONVILLE, OREGON

EXISTING TREE TABLES

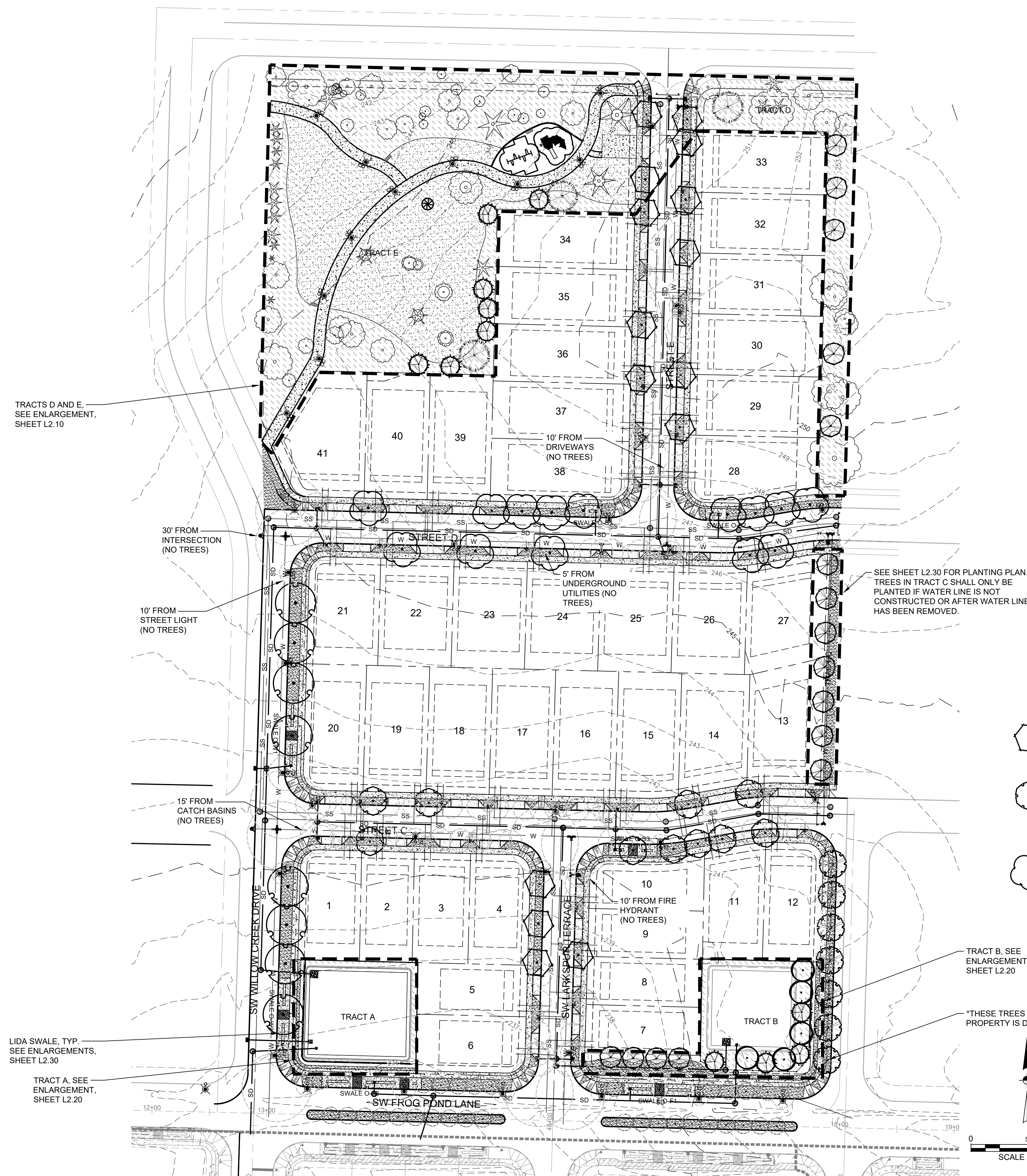
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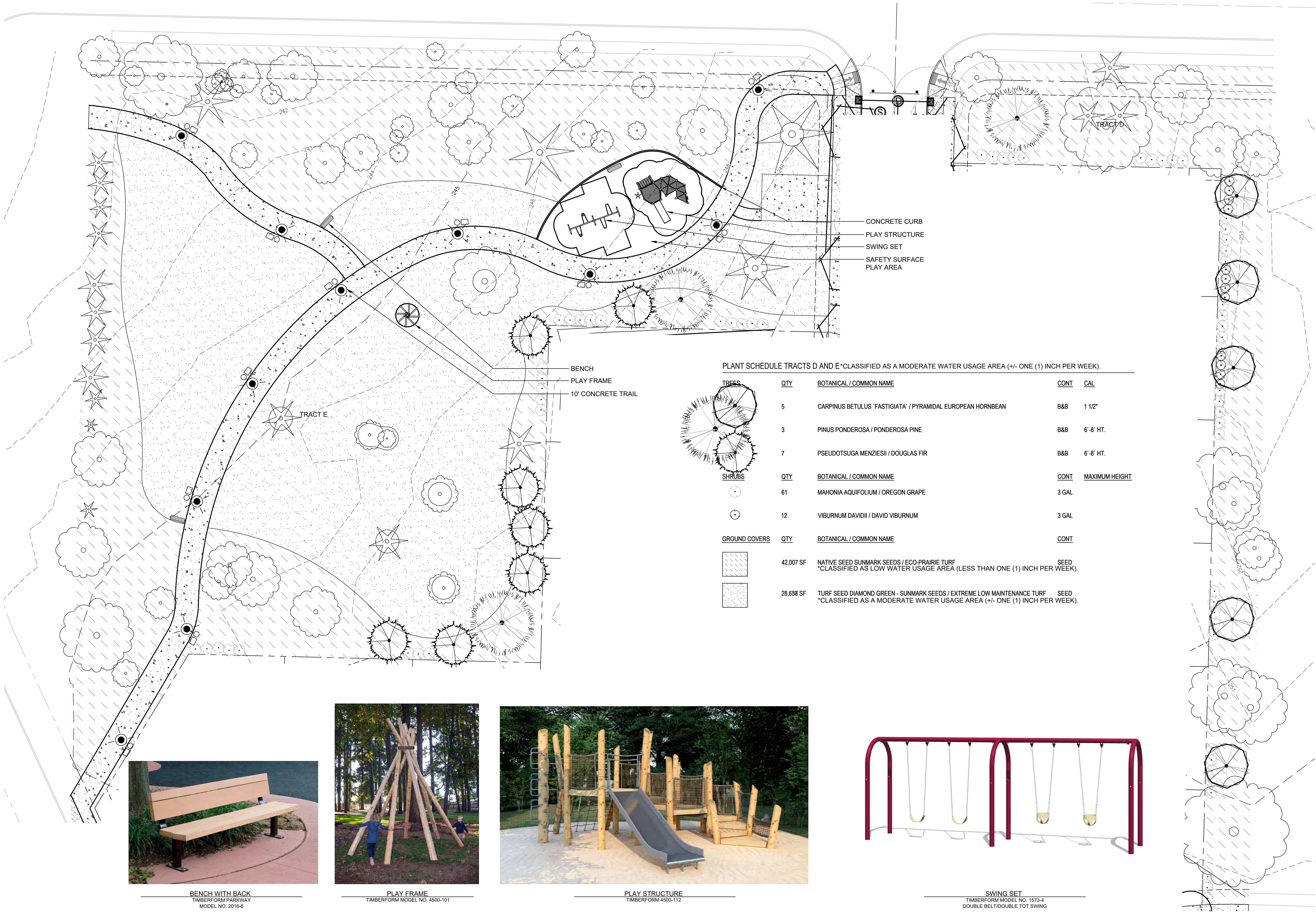
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FROG POND OAKS
41 DETACHED SINGLE FAMILY LOTS
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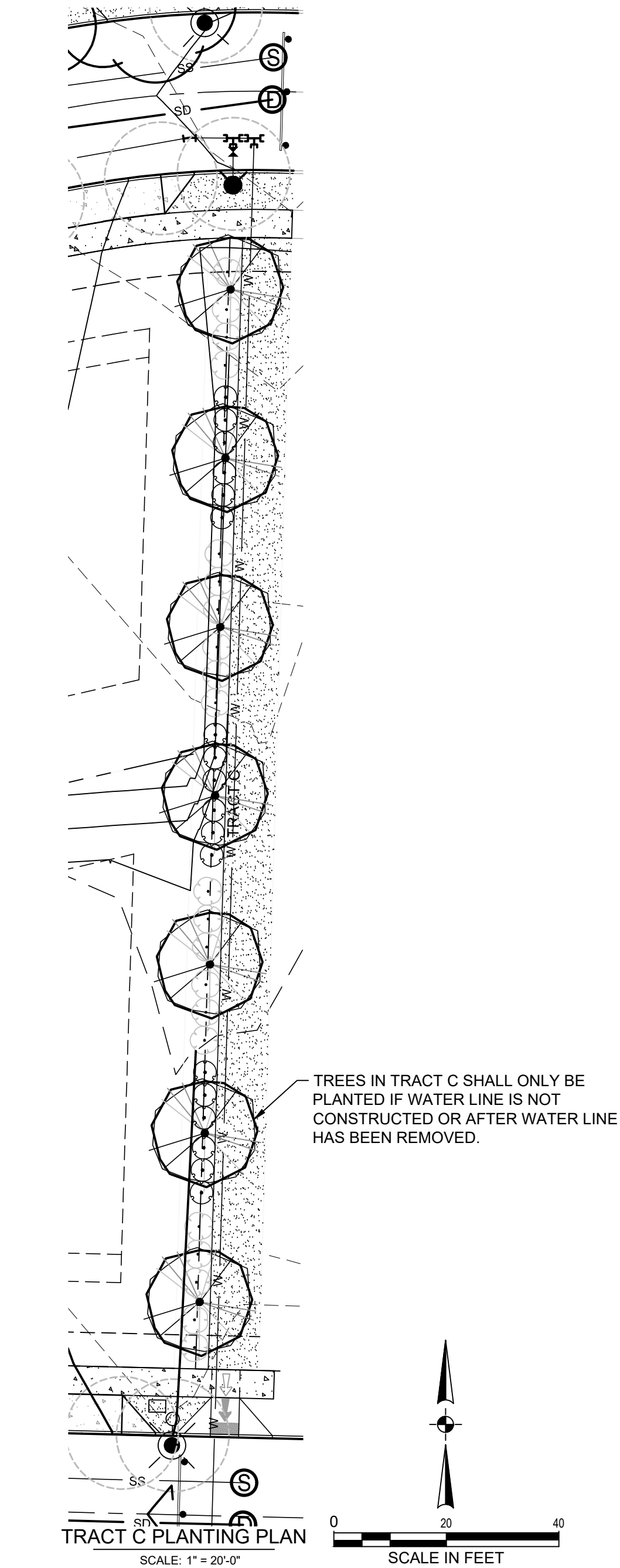
TRACTS D AND E LANDSCAPE PLAN

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REVISIONS		
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DATUM		
OTAK CAD		KJB
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LAND USE SUBMITTAL		
STATUS		
FEBRUARY 18, 2022		
DATE		
20141		
PROJECT NUMBER		

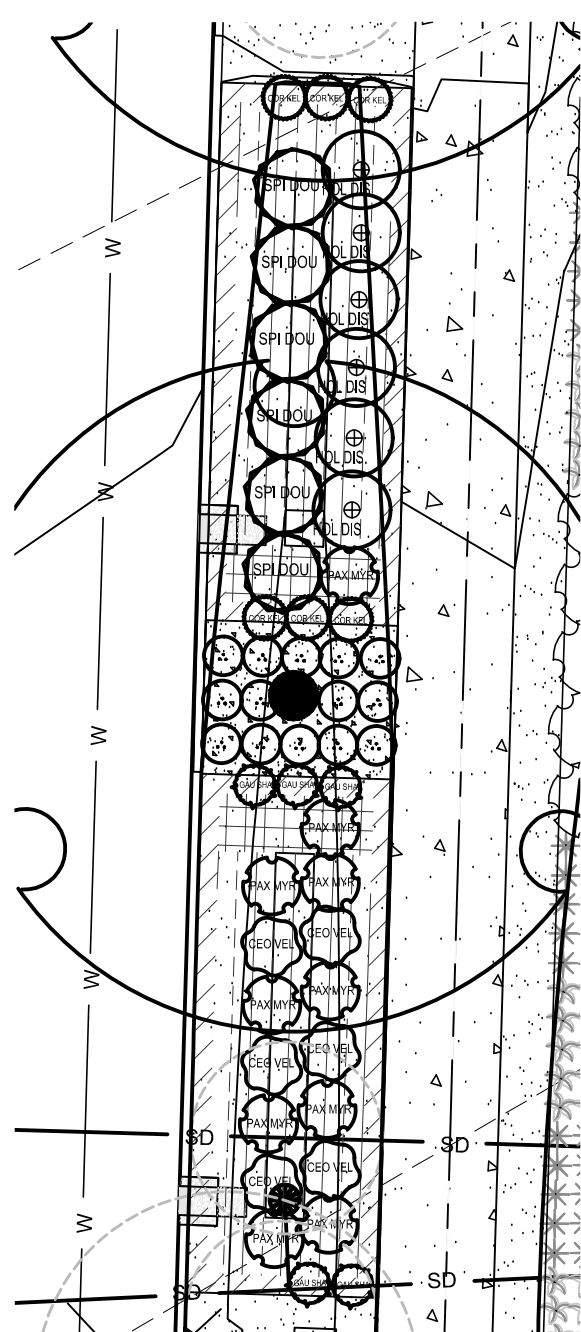
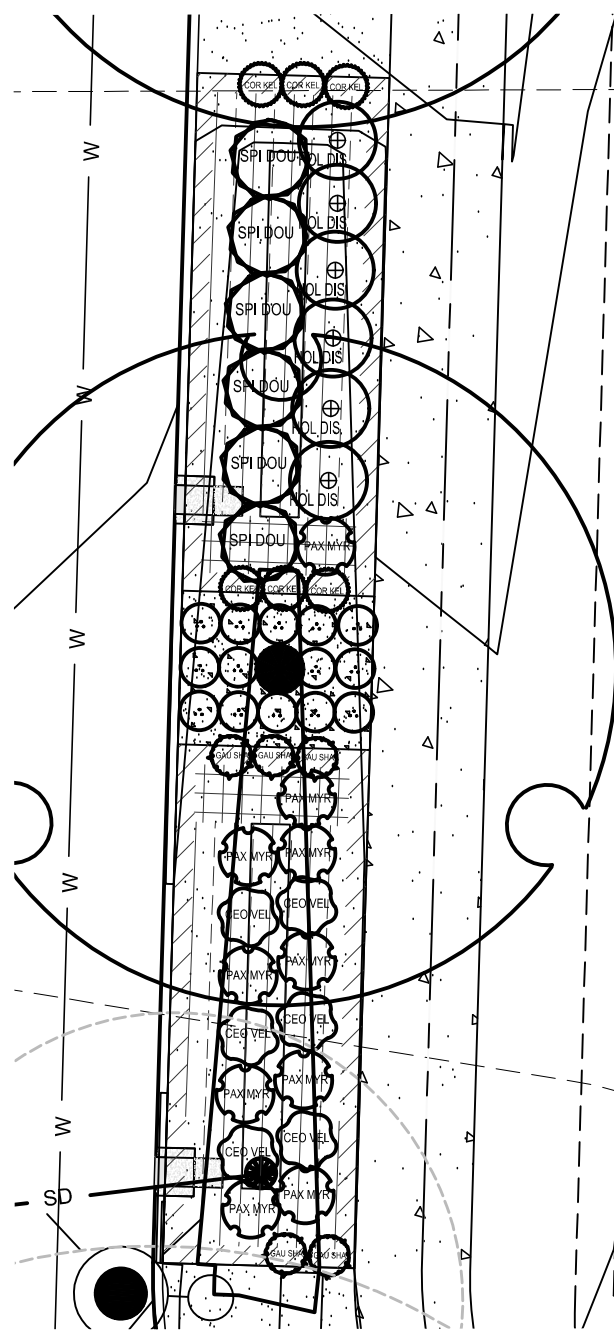
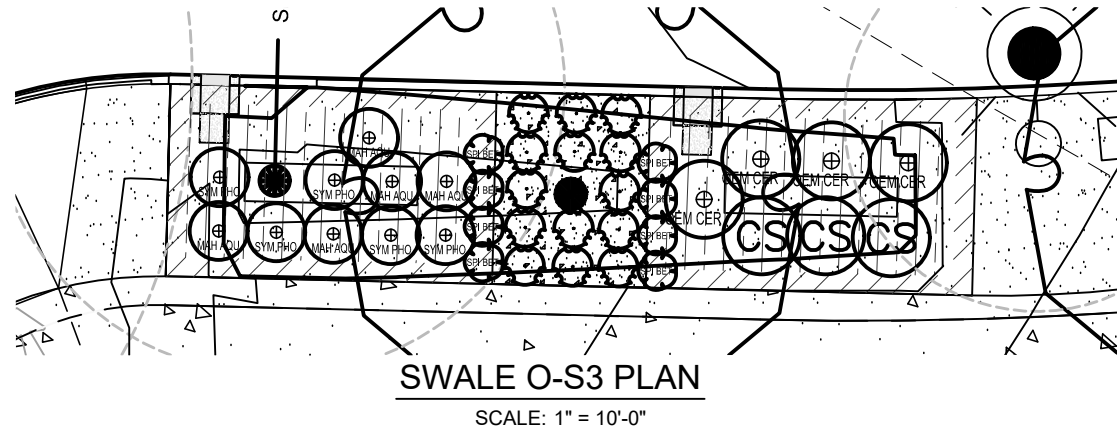
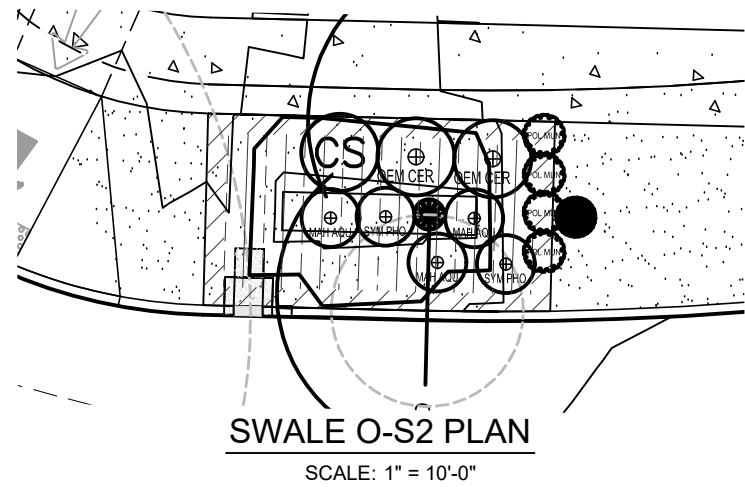
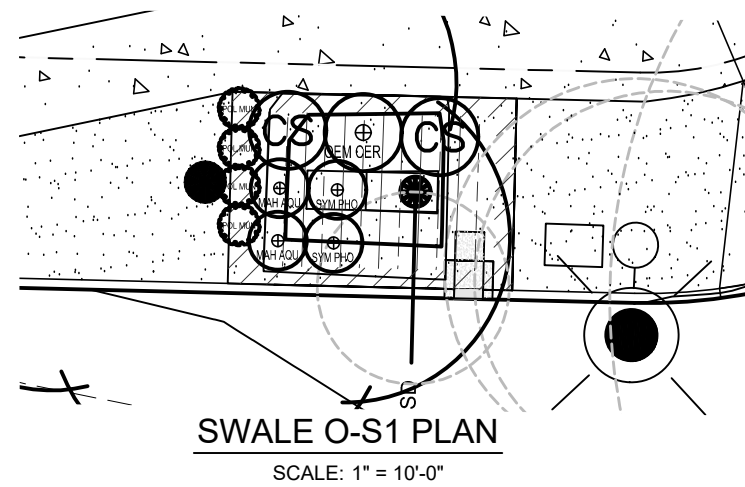
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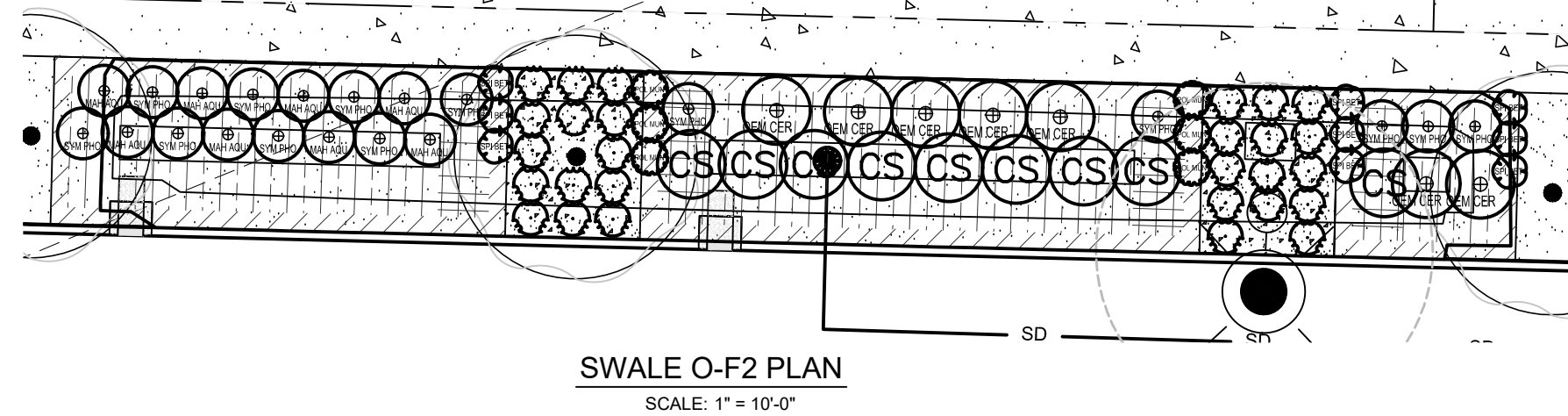
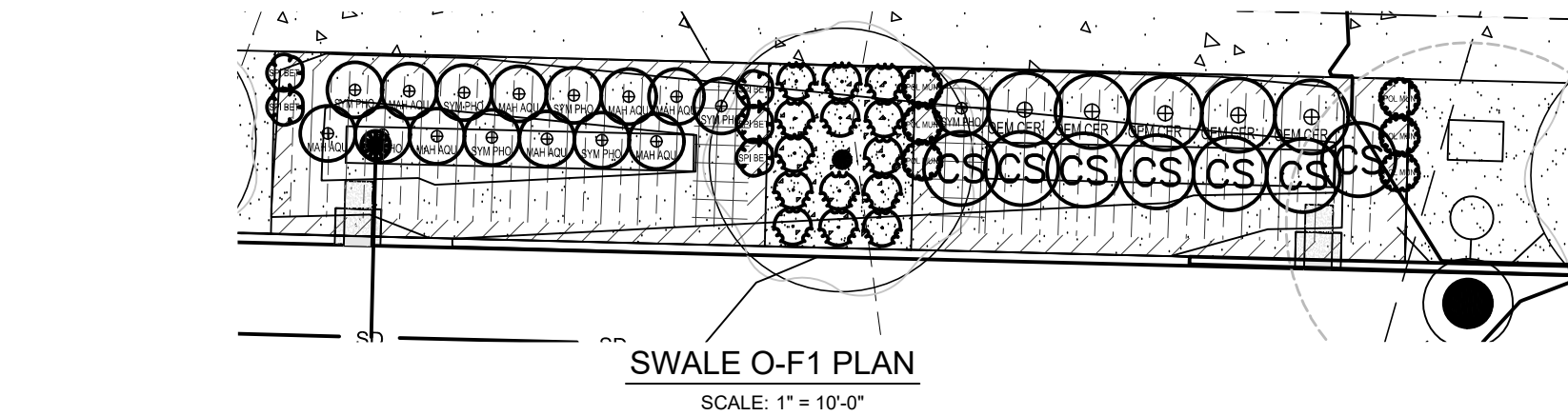
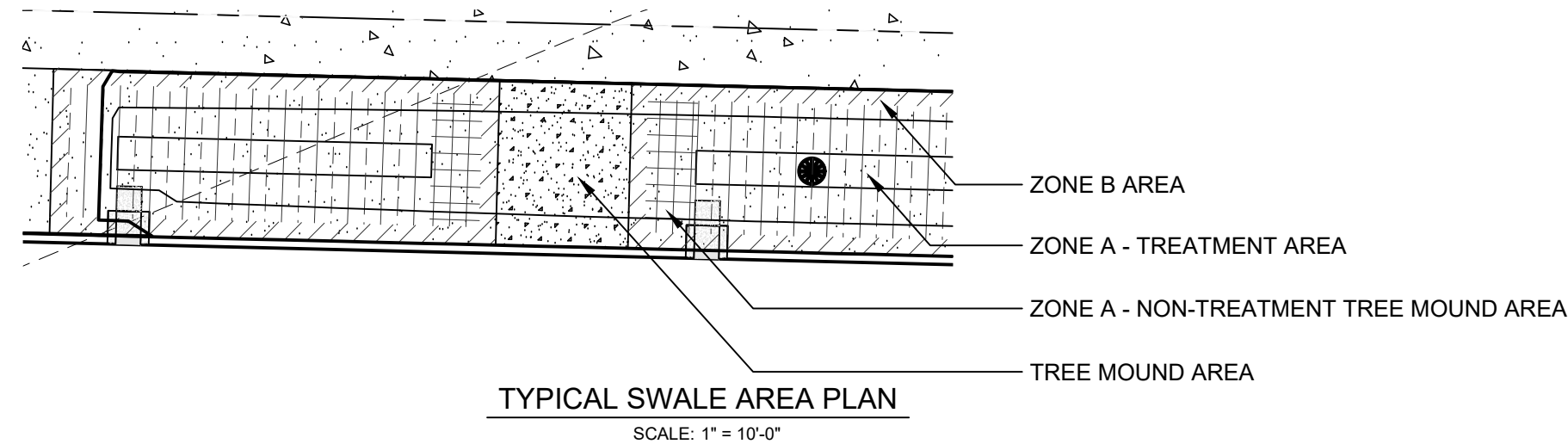
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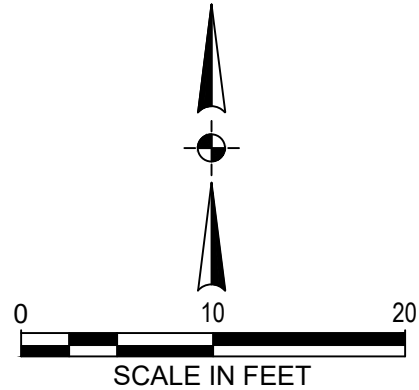
	12	TAXUS CANADENSIS / NORWAY SPRUCE	
	17	VIBURNUM TINUS / ARROWWOOD	5 GAL
GROUND COVERS	QTY	BOTANICAL NAME / PLANT TYPE / WATER USAGE AREA (+/- ONE (1) INCH PER WEEK)	
	1,369 SF	NATIVE SEED SUNMARK SEEDS / ECO-PRAIRIE TURF	SEED
	482 SF	TURF SEED DIAMOND GREEN - SUNMARK SEEDS / EXTREME LOW MAINTENANCE TURF	SEED



- NOTES:
- ALL LANDSCAPE AREAS SHALL BE WATERED BY A FULLY AUTOMATIC UNDERGROUND IRRIGATION SYSTEM, EXCEPT NATIVE GRASS PLANTING WHICH SHALL RECEIVE ESTABLISHMENT IRRIGATION.
 - SEE SHEET L2.00 FOR STREET TREE PLANTING IN TREE MOUND.



SWALE AREA KEY			NOTES:	
SYMBOL			1.	HERBACEOUS/GROUNDCOVERS NOT SHOWN. PLANT IN QUANTITIES INDICATED ON SPREADSHEET THIS SHEET.
	ZONE A - TREATMENT AREA		2.	HERBACEOUS PLANTS INSTALLED AT SP#4 SIZE.
	ZONE A - NON-TREATMENT TREE MOUND AREA		3.	GROUNDCOVER INSTALLED AT #1 CONT. SIZE
	ZONE B - FREEBOARD AREA			
STREET TREE MOUND SHRUBS				
QTY	COMMON NAME / Botanical name	Size		
28	GOLD NUGGET BARBERRY / Berberis thunbergii 'Gold Nugget'	#1 CONT.		
56	STELLA DE ORO DAYLILY / Hemerocallis 'Stella de Oro'	#1 CONT.		



NORTH/SOUTH SWALE SHRUB LEGEND

SYMBOL	QTY	COMMON NAME / Botanical name	Size	Spacing
	10	SALAL / Gaultheria shallon	1 GAL.	1' o.c.
	12	KELSEY DOGWOOD / Cornus sericea 'Kelsey'	1 GAL.	1' o.c.
	20	OREGON BOXLEAF / Paxistima myrsinites	1 GAL.	1' o.c.
	12	SNOWBRUSH / Ceanothus velutinus	1 GAL.	1' o.c.
	12	DOUGLAS SPIRAEA / Spiraea douglasii	30" HT.	3' o.c.
	12	WESTERN SERVICEBERRY / Holodiscus discolor	30" HT.	3' O.C.

EAST/WEST SWALE SHRUB LEGEND

SYMBOL	QTY	COMMON NAME / Botanical name	Size	Spacing
	22	BIRCHLEAF SPIRAEA / Spiraea betulifolia	1 GAL.	1' o.c.
	20	SWORD FERN / Polystichum minus	1 GAL.	1' o.c.
	26	OREGON GRAPE HOLLY / Mahonia aquifolium	1 GAL.	1' o.c.
	28	SNOWBERRY / Symphoricarpos alba	1 GAL.	1' o.c.
	18	INDIAN PLUM / Omleria cerasiformis	30" HT.	3' o.c.
	23	RED-TWIG DOGWOOD / Cornus sericea	30" HT.	3' o.c.

*CLASSIFIED AS LOW WATER USAGE AREA (LESS THAN ONE (1) INCH PER WEEK).

		FROG POND OAKS VEGETATED SWALE PLANT QUANTITIES															
		ZONE A															
		TREATMENT AREA				GROUND COVER = TREATMENT AREA/2				SHRUBS				ZONE B			
		REQUIRED HERBACEOUS 115 per 100sf				REQUIRED HERBACEOUS 115 per 100sf				REQUIRED HERBACEOUS 115 per 100sf				REQUIRED HERBACEOUS 115 per 100sf			
		Carex testacea	Juncus patens	Juncus ensifolius	Scirpus microcarpus	Carex testacea	Juncus patens	Juncus ensifolius	Scirpus microcarpus	Carex testacea	Juncus patens	Juncus ensifolius	Scirpus microcarpus	Carex testacea	Juncus patens	Juncus ensifolius	Scirpus microcarpus
		PROVIDED HERBACEOUS	PROVIDED HERBACEOUS	PROVIDED HERBACEOUS	PROVIDED HERBACEOUS	PROVIDED HERBACEOUS	PROVIDED HERBACEOUS	PROVIDED HERBACEOUS	PROVIDED HERBACEOUS	PROVIDED HERBACEOUS	PROVIDED HERBACEOUS	PROVIDED HERBACEOUS	PROVIDED HERBACEOUS	PROVIDED HERBACEOUS	PROVIDED HERBACEOUS	PROVIDED HERBACEOUS	PROVIDED HERBACEOUS
		REQ'D GROUND COVER 115 per 100sf	REQ'D GROUND COVER 115 per 100sf	REQ'D GROUND COVER 115 per 100sf	REQ'D GROUND COVER 115 per 100sf	REQ'D GROUND COVER 115 per 100sf	REQ'D GROUND COVER 115 per 100sf	REQ'D GROUND COVER 115 per 100sf	REQ'D GROUND COVER 115 per 100sf	REQ'D GROUND COVER 115 per 100sf	REQ'D GROUND COVER 115 per 100sf	REQ'D GROUND COVER 115 per 100sf	REQ'D GROUND COVER 115 per 100sf	REQ'D GROUND COVER 115 per 100sf	REQ'D GROUND COVER 115 per 100sf	REQ'D GROUND COVER 115 per 100sf	REQ'D GROUND COVER 115 per 100sf
		FRAGARIA CHILOENSIS	FRAGARIA CHILOENSIS	FRAGARIA CHILOENSIS	FRAGARIA CHILOENSIS	FRAGARIA CHILOENSIS	FRAGARIA CHILOENSIS	FRAGARIA CHILOENSIS	FRAGARIA CHILOENSIS	FRAGARIA CHILOENSIS	FRAGARIA CHILOENSIS	FRAGARIA CHILOENSIS	FRAGARIA CHILOENSIS	FRAGARIA CHILOENSIS	FRAGARIA CHILOENSIS	FRAGARIA CHILOENSIS	FRAGARIA CHILOENSIS
		REQ'D SMALL SHRUBS (4/100 SF)	REQ'D SMALL SHRUBS (4/100 SF)	REQ'D SMALL SHRUBS (4/100 SF)	REQ'D SMALL SHRUBS (4/100 SF)	REQ'D SMALL SHRUBS (4/100 SF)	REQ'D SMALL SHRUBS (4/100 SF)	REQ'D SMALL SHRUBS (4/100 SF)	REQ'D SMALL SHRUBS (4/100 SF)	REQ'D SMALL SHRUBS (4/100 SF)	REQ'D SMALL SHRUBS (4/100 SF)	REQ'D SMALL SHRUBS (4/100 SF)	REQ'D SMALL SHRUBS (4/100 SF)	REQ'D SMALL SHRUBS (4/100 SF)	REQ'D SMALL SHRUBS (4/100 SF)	REQ'D SMALL SHRUBS (4/100 SF)	REQ'D SMALL SHRUBS (4/100 SF)
		REQ'D LARGE SHRUBS (3/100 SF)	REQ'D LARGE SHRUBS (3/100 SF)	REQ'D LARGE SHRUBS (3/100 SF)	REQ'D LARGE SHRUBS (3/100 SF)	REQ'D LARGE SHRUBS (3/100 SF)	REQ'D LARGE SHRUBS (3/100 SF)	REQ'D LARGE SHRUBS (3/100 SF)	REQ'D LARGE SHRUBS (3/100 SF)	REQ'D LARGE SHRUBS (3/100 SF)	REQ'D LARGE SHRUBS (3/100 SF)	REQ'D LARGE SHRUBS (3/100 SF)	REQ'D LARGE SHRUBS (3/100 SF)	REQ'D LARGE SHRUBS (3/100 SF)	REQ'D LARGE SHRUBS (3/100 SF)	REQ'D LARGE SHRUBS (3/100 SF)	REQ'D LARGE SHRUBS (3/100 SF)
		AREA	AREA	AREA	AREA	AREA	AREA	AREA	AREA	AREA	AREA	AREA	AREA	AREA	AREA	AREA	AREA
		SHRUBS	SHRUBS	SHRUBS	SHRUBS	SHRUBS	SHRUBS	SHRUBS	SHRUBS	SHRUBS	SHRUBS	SHRUBS	SHRUBS	SHRUBS	SHRUBS	SHRUBS	SHRUBS
		REQ'D SMALL SHRUBS (8/100 SF)	REQ'D SMALL SHRUBS (8/100 SF)	REQ'D SMALL SHRUBS (8/100 SF)	REQ'D SMALL SHRUBS (8/100 SF)	REQ'D SMALL SHRUBS (8/100 SF)	REQ'D SMALL SHRUBS (8/100 SF)	REQ'D SMALL SHRUBS (8/100 SF)	REQ'D SMALL SHRUBS (8/100 SF)	REQ'D SMALL SHRUBS (8/100 SF)	REQ'D SMALL SHRUBS (8/100 SF)	REQ'D SMALL SHRUBS (8/100 SF)	REQ'D SMALL SHRUBS (8/100 SF)	REQ'D SMALL SHRUBS (8/100 SF)	REQ'D SMALL SHRUBS (8/100 SF)	REQ'D SMALL SHRUBS (8/100 SF)	REQ'D SMALL SHRUBS (8/100 SF)
		ARCTOSTAPHYLOS UVA-URSI (115/100 SF)	ARCTOSTAPHYLOS UVA-URSI (115/100 SF)	ARCTOSTAPHYLOS UVA-URSI (115/100 SF)	ARCTOSTAPHYLOS UVA-URSI (115/100 SF)	ARCTOSTAPHYLOS UVA-URSI (115/100 SF)	ARCTOSTAPHYLOS UVA-URSI (115/100 SF)	ARCTOSTAPHYLOS UVA-URSI (115/100 SF)	ARCTOSTAPHYLOS UVA-URSI (115/100 SF)	ARCTOSTAPHYLOS UVA-URSI (115/100 SF)	ARCTOSTAPHYLOS UVA-URSI (115/100 SF)	ARCTOSTAPHYLOS UVA-URSI (115/100 SF)	ARCTOSTAPHYLOS UVA-URSI (115/100 SF)	ARCTOSTAPHYLOS UVA-URSI (115/100 SF)	ARCTOSTAPHYLOS UVA-URSI (115/100 SF)	ARCTOSTAPHYLOS UVA-URSI (115/100 SF)	ARCTOSTAPHYLOS UVA-URSI (115/100 SF)
SWALE ID	STREET	352	203	101	101	0	0	202	203	203	14	11	48	28	14	14	14
O-W1	SW Willow Creek	360	207	104	104	0	0	208	207	207	14	11	48	28	14	14	14
O-W2	SW Willow Creek	352	203	101	101	0	0	202	203	203	14	11	48	28	14	14	14
O-F1	FROG POND	424	244	0	0	122	122	244	244	244	17	13	96	55	0	0	28
O-F2	FROG POND	103	59	0	0	30	30	60	59	59	4	3	0	0	0	0	0
O-S1	FROG POND	128	74	0	0	37	37	74	74	74	5	4	0	0	0	0	0
O-S2	FROG POND	240	138	0	0	69	69	138	138	138	10	7	0	0	0	0	0
O-S3	FROG POND	240	138	0	0	69	69	138	138	138	10	7	0	0	0	0	0
TOTALS:		1127	306	306	257	257	1,128	1,127	1,127	78	60		138	41	41	55	55
														196	138	138	10
															6	810	64
																	932

*CLASSIFIED AS LOW WATER USAGE AREA (LESS THAN ONE (1) INCH PER WEEK).



Otak, Inc.
808 SW Third Avenue, Ste. 800
Portland, OR 97204
503. 287. 6825
www.otak.com



FROG POND OAKS
41 DETACHED SINGLE FAMILY LOTS
CITY OF WILSONVILLE, OREGON

LIDA PLANTER LANDSCAPE PLANS

TITLE	DATE	DESCRIPTION
#		

REVISIONS
NAV/D88 DATUM
OTAK CAD DRAWN BY
KJB CHECKED BY
LAND USE SUBMITTAL STATUS
FEBRUARY 18, 2022 DATE
20141 PROJECT NUMBER

L2.30

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If this drawing is not 22" x 34", it has been reduced/enlarged. Scale accordingly.

LIGHTING NOTES:

1.

LIGHT POLES ALONG ALL ROADWAYS SHALL BE PER PGE APPROVED STREET LIGHTING EQUIPMENT:

MANUFACTURER:

MANUFACTURER PRODUCT CODE:

PGE NUMBER:

HADCO WESTBROOKE POLE

CP2871C

SU 40034

WESTBROOKE POLE 4FT MAST ARM

CA7897

SU 90002579
2.

LIGHT POLES ALONG ALL PATHS SHALL BE:

MANUFACTURER:

CATALOG NUMBER:

NOVA

NP8050D13AB
3.

POLE FOOTING SHALL BE PER CITY PUBLIC WORK STANDARD RD-1345 (PG4):

MANUFACTURER:

CATALOG NUMBER:

OLDCASTLE PRECAST

20R-LB-4-PGE

OLDCASTLE PRECAST

7-LB-PGE (USED FOR LIGHT POLES IN SWALES)
4.

JUNCTION BOXES SHALL BE PER CITY PUBLIC WORK STANDARD RD-1325 AND RD-1345 (PG5):

"LIGHTING" SHALL BE IN THE LID MARKING AREA PER RD-1325.
5.

WESTBROOKE LUMINAIRE FOR THE ROADWAY LIGHTING SHALL BE:

MANUFACTURER:

MANUFACTURER PRODUCT CODE:

PGE NUMBER:

PHILIPS HADCO

C7897GA-A3N73032A3NNNNA

CU 1433
6.

WESTBROOKE LUMINAIRE FOR THE PATHWAY LIGHTING SHALL BE:

MANUFACTURER:

CATALOG NUMBER:

PHILIPS HADCO

CXF14-32-G2-A-3-W-A-3-H (HOUSE SIDE SHIELD)
7.

7 PIN ADAPTER FOR CONTROLLER NODE. INSTALL SHORTING CAP IN PLACE OF NODE. THE PHOTOELECTRIC CONTROL SHALL BE PGE APPROVED TWISTLOCK, FAIL-ON, ELECTRONIC, 105-300 VAC, 60 HZ, PER ANSI136.10, BRONZE HOUSING, 1.5 LUMEN TURN-ON, RATED 1000 W TUNGSTON (1800 VA BALLAST), 1.5:1 TURN-OFF / TURN-ON RATION, SOLID BRASS PLUG BLADES, CONFORMALLY COATED CDS CELL, 160 JOULE MOV, 2-4 SEC. TURN-OFF DELAY. PGE APPROVED PHOTOELECTRIC CONTROLS ARE:

MANUFACTURER:

CATALOG NUMBER:

ACUITY BRANDS (DTL)

D124-1.5-1704
8.

THE STREETLIGHT WIRE SHALL BE:

#10 AWG, 600 VOLT, 3-CONDUCTOR, CLASS B STRANDING, TYPE TC, WITH SUNLIGHT-RESISTANT 45-MIL PVC JACKET. SUITABLE FOR DIRECT BURIAL INSTALLATIONS. INSULATION TO BE BLACK, RED, AND GREEN PER NEMA WC-7 FOR NEC APPLICATIONS (TFN, THWN, THHN), WITH FILLERS OR BINDING TAPE ADDED TO PRODUCE ROUND OUTER JACKET, RATED 90 DEGREES C DRY AND 75 DEGREES C WET, 1,000 FT NR REELS. JACKET TO DISPLAY SEQUENTIAL FOOTAGE MARKINGS. 2 REEL LABELS, ONE ATTACHED TO THE OUTSIDE FLANGE SURFACE, ONE ATTACHED TO THE DRUM WRAPPING; EACH TO DETAIL TOTAL FOOTAGE, INSIDE OR STARTING FOOTAGE.

GENERAL NOTES

1.

ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO P.G.E. OPTION "B" SPECIFICATIONS.
2.

ALL ELECTRICAL EQUIPMENT SHALL CONFORM TO THE CURRENT STANDARDS OF THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) AND THE UNDERWRITERS LABORATORIES, INC. (U.L.). WHEREVER APPLICABLE. IN ADDITION TO THE REQUIREMENTS OF THE PLANS, STANDARD SPECIFICATIONS, AND THE SPECIAL PROVISIONS, ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CURRENT REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) THE NATIONAL ELECTRICAL SAFETY CODE, STANDARDS OF THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), AND ANY LOCAL ORDINANCES WHICH MAY APPLY.
3.

LOCATION OF ILLUMINATION CONDUITS AND JUNCTION BOXES ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE WITH OTHER UTILITIES TO ENSURE PROPER INSTALLATION.
4.

THE CONTRACTOR SHALL COORDINATE WORK WITH LISA GUARNERO OF PGE AT (503) 742-8299 TO COORDINATE POWER SERVICE CONNECTION FOR THE LIGHTING SYSTEM.

LIGHTING TABLE				
ROADWAY	CLASSIFICATION		3000K FIXTURE	
			LIGHT LEVEL (FC)	UNIFORMITY (AVE:MIN)
FROG POND @ WILLOW CREEK DR INTERSECTION	COLLECTOR/ LOCAL	RECOMMENDED	≥1.0	≤4:1
		DESIGN	1.0	3.4 : 1
FROG POND @ LAKESPUR TER INTERSECTION	COLLECTOR/ LOCAL	RECOMMENDED	≥1.0	≤4:1
		DESIGN	1.1	2.2 : 1
SW LARKSPUR TER @ STREET C INTERSECTION	LOCAL/LOCAL	RECOMMENDED	≥0.8	≤6:1
		DESIGN	0.9	2.2 : 1
SW WILLOW CREEK DR @ STREET C INTERSECTION	LOCAL/LOCAL	RECOMMENDED	≥0.8	≤6:1
		DESIGN	0.8	1.6 : 1
SW WILLOW CREEK DR @ STREET D INTERSECTION	LOCAL/LOCAL	RECOMMENDED	≥0.8	≤6:1
		DESIGN	1.0	2.5 : 1
STREET D @ STREET E INTERSECTION	LOCAL/LOCAL	RECOMMENDED	≥0.8	≤6:1
		DESIGN	0.9	3.1 : 1
SW FROG POND LN WILLOW CREEK DR TO LARKSPUR TER	COLLECTOR	RECOMMENDED	≥0.6	≤4:1
		DESIGN	1.0	2.7 : 1
SW FROG POND LN LARKSPUR TER TO MARIGOLD TER	COLLECTOR	RECOMMENDED	≥0.6	≤4:1
		DESIGN	1.0	2.7 : 1
SW LARKSPUR TERR FROG POND LN TO STREET C	LOCAL	RECOMMENDED	≥0.4	≤6:1
		DESIGN	0.5	4.8 : 1
STREET C WILLOW CREEK DR TO LARKSPUR TER	LOCAL	RECOMMENDED	≥0.4	≤6:1
		DESIGN	0.6	2.9 : 1
STREET C LARKSPUR TER TO MARIGOLD TER	LOCAL	RECOMMENDED	≥0.4	≤6:1
		DESIGN	0.5	5.2 : 1
SW WILLOW CREEK DR FROG POND LN TO STREET C	LOCAL	RECOMMENDED	≥0.4	≤6:1
		DESIGN	0.5	5.0 : 1
SW WILLOW CREEK DR STREET C TO STREET D	LOCAL	RECOMMENDED	≥0.4	≤6:1
		DESIGN	0.7	2.5 : 1
STREET D WILLOW CREEK DR TO STREET E	LOCAL	RECOMMENDED	≥0.4	≤6:1
		DESIGN	0.4	4.3 : 1
STREET D STREET E TO MARIGOLD TER	LOCAL	RECOMMENDED	≥0.4	≤6:1
		DESIGN	0.5	4.6 : 1
STREET E STREET D TO SW KAHLE RD	LOCAL	RECOMMENDED	≥0.4	≤6:1
		DESIGN	0.5	5.1 : 1

LUMINAIRE TABLE										
POLE NUMBER	ROADWAY	STATION	POLE STYLE	POLE TYPE	LUMINAIRE				MOUNTING HEIGHT	ARM LENGTH
					WATT	TYPE	DISTRIBUTION	DIMMING		
1	SW FROG POND LANE	13+35	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
2	SW FROG POND LANE	14+20	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
3	SW FROG POND LANE	15+06	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
4	SW FROG POND LANE	15+92	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
5	SW FROG POND LANE	16+77	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
6	SW FROG POND LANE	17+50	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
7	SW LAKESPUR TERR	48+60	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
8	SW LAKESPUR TERR	50+18	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
9	STREET C	10+44	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
10	STREET C	11+34	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
11	STREET C	12+56	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
12	STREET C	13+47	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
13	STREET C	14+83	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
14	SW WILLOW CREEK DR	20+11	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
15	SW WILLOW CREEK DR	21+70	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
16	SW WILLOW CREEK DR	22+58	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
17	SW WILLOW CREEK DR	23+54	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
18	SW WILLOW CREEK DR	24+33	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
19	STREET D	10+26	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
20	STREET D	11+65	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
21	STREET D	13+00	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
22	STREET D	13+54	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
23	STREET D	14+88	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
24	STREET E	10+84	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
25	STREET E	12+00	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
26	STREET E	13+57	WESTBROOK	DECORATIVE	35	LED	M-C-3	1.0	22'	4'
27	MAIN PATH		NOVA	PATHWAY	35	LED	M-C-3	0.25	12'	4'
28	MAIN PATH		NOVA	PATHWAY	35	LED	M-C-3	0.25	12'	4'
29	MAIN PATH		NOVA	PATHWAY	35	LED	M-C-3	0.25	12'	4'
30	MAIN PATH		NOVA	PATHWAY	35	LED	M-C-3	0.25	12'	4'
31	MAIN PATH		NOVA	PATHWAY	35	LED	M-C-3	0.25	12'	4'
32	MAIN PATH		NOVA	PATHWAY	35	LED	M-C-3	0.25	12'	4'
33	MAIN PATH		NOVA	PATHWAY	35	LED	M-C-3	0.25	12'	4'
34	MAIN PATH		NOVA	PATHWAY	35	LED	M-C-3	0.25	12'	4'
35	MAIN PATH		NOVA	PATHWAY	35	LED	M-C-3	0.25	12'	4'
36	WEST PATH		NOVA	PATHWAY	35	LED	M-C-3	0.25	12'	4'
37	WEST PATH		NOVA	PATHWAY	35	LED	M-C-3	0.25	12'	4'

PATHWAY LIGHTING TABLE			
		3000K FIXTURE	
MAIN PATHWAY	RECOMMENDED	≥0.4	≤4:1
	DESIGN	0.5	2.7 : 1
WEST PATHWAY	RECOMMENDED	≥0.4	≤4:1
	DESIGN	0.5	2.5 : 1



.\\HW_Land_Logs_\\Bldg.jpg



851 SW 6TH AVENUE, SUITE 600
PORTLAND, OR 97204
P 503.228.5230 F 503.273.8168

STAMP



EXPIRES: 06/30/22

CONSULTANT

FROG POND OAKS

ILLUMINATION NOTES

TITLE

#	DATE	DESCRIPTION

REVISIONS

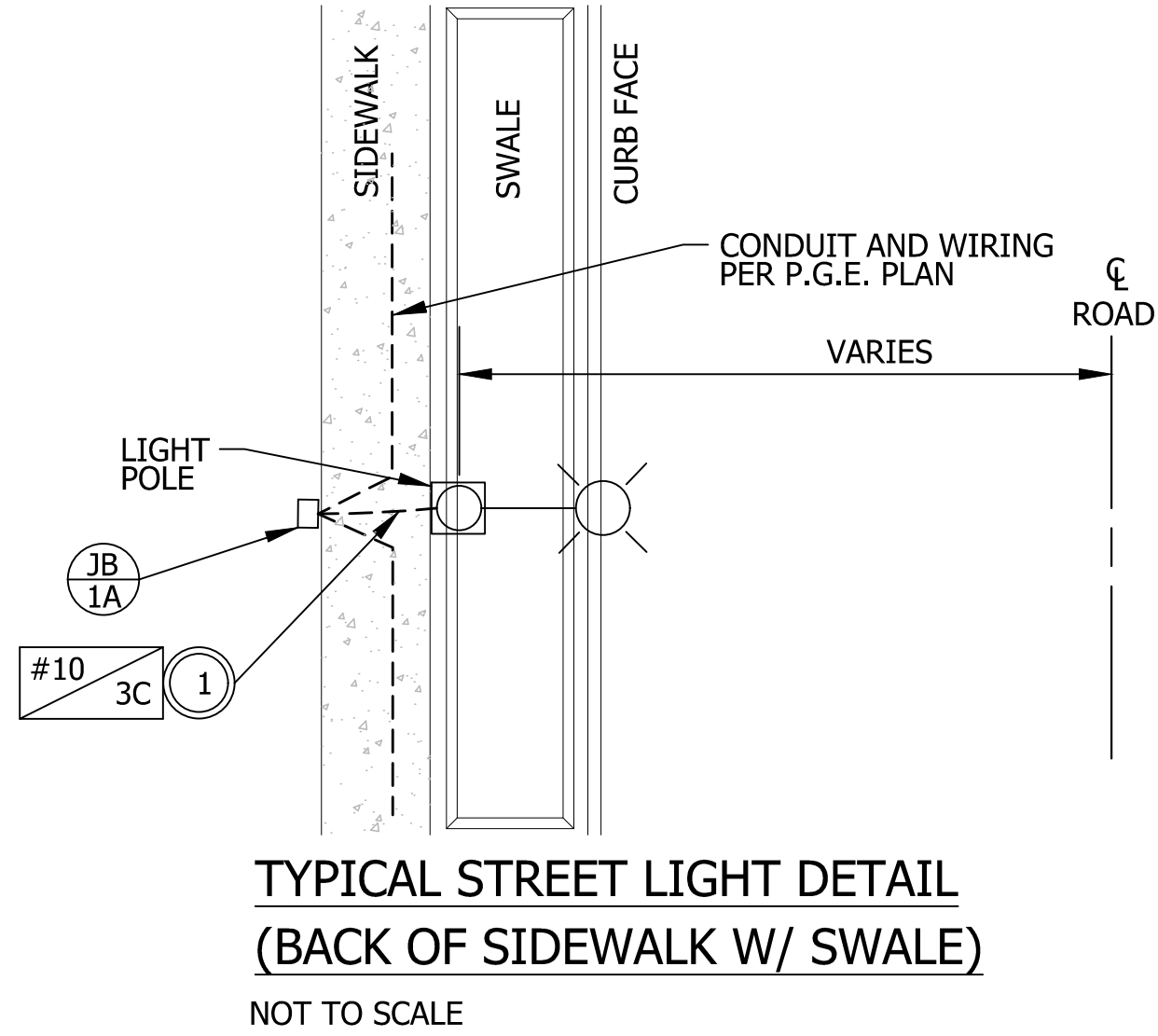
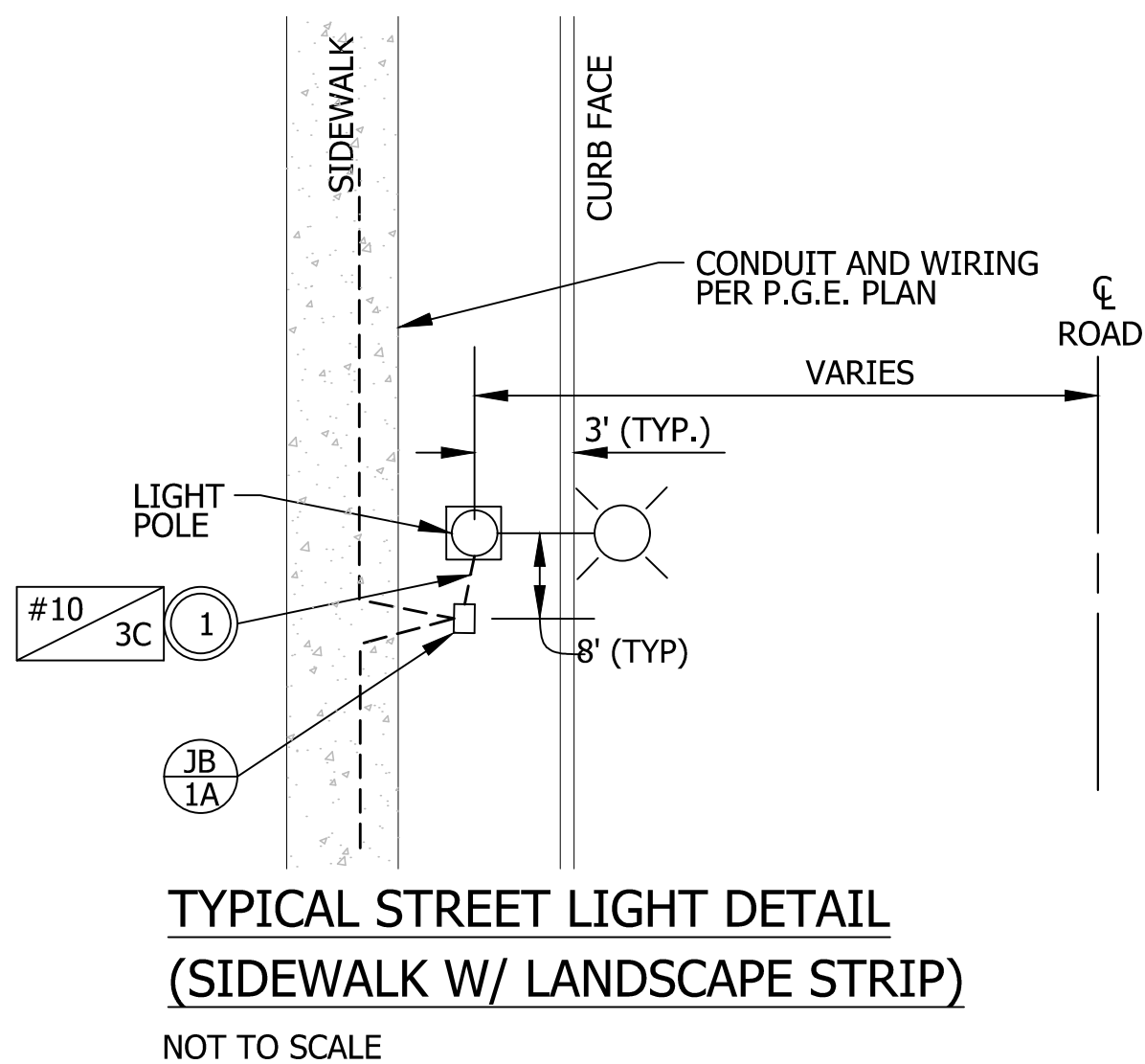
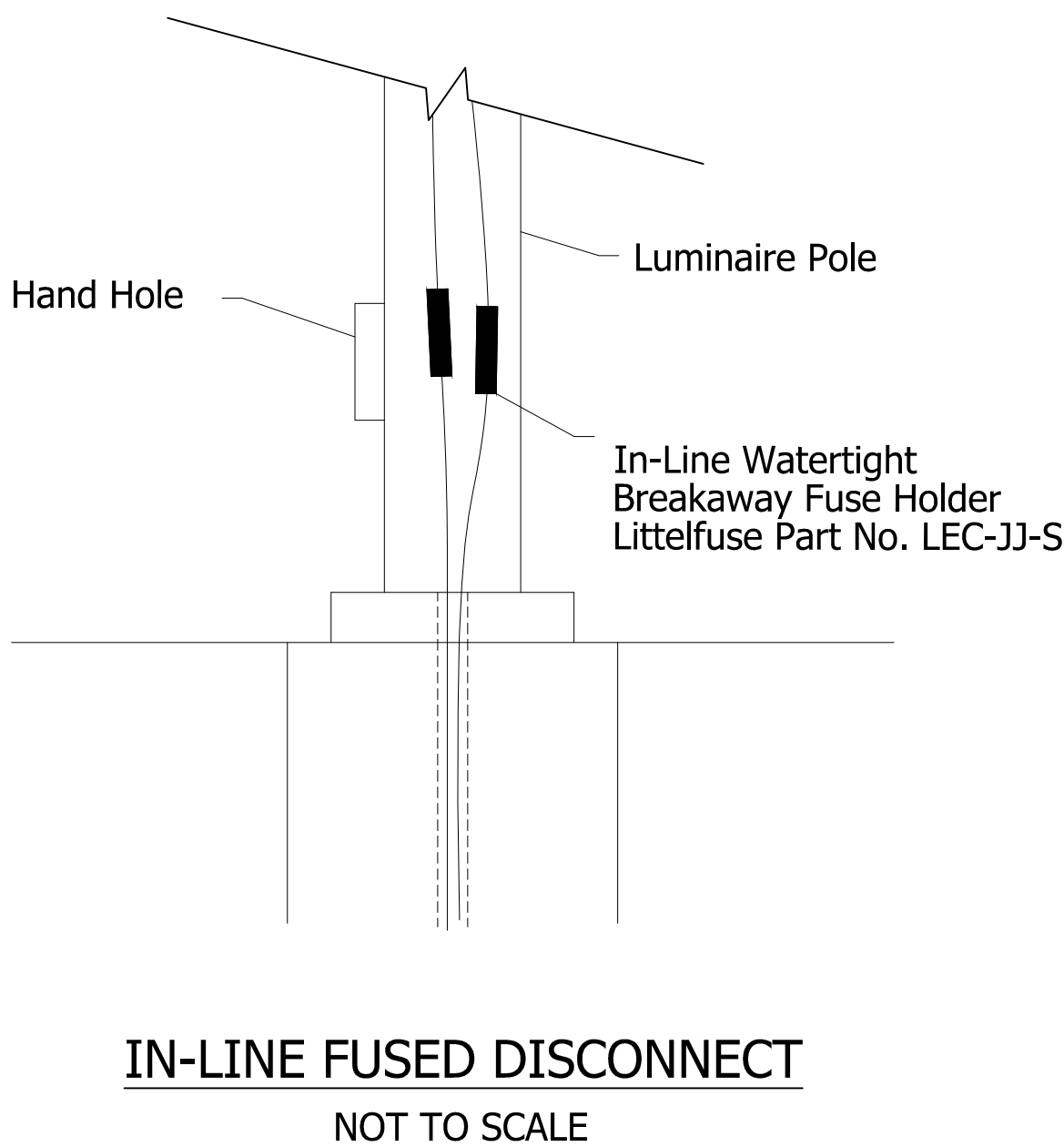
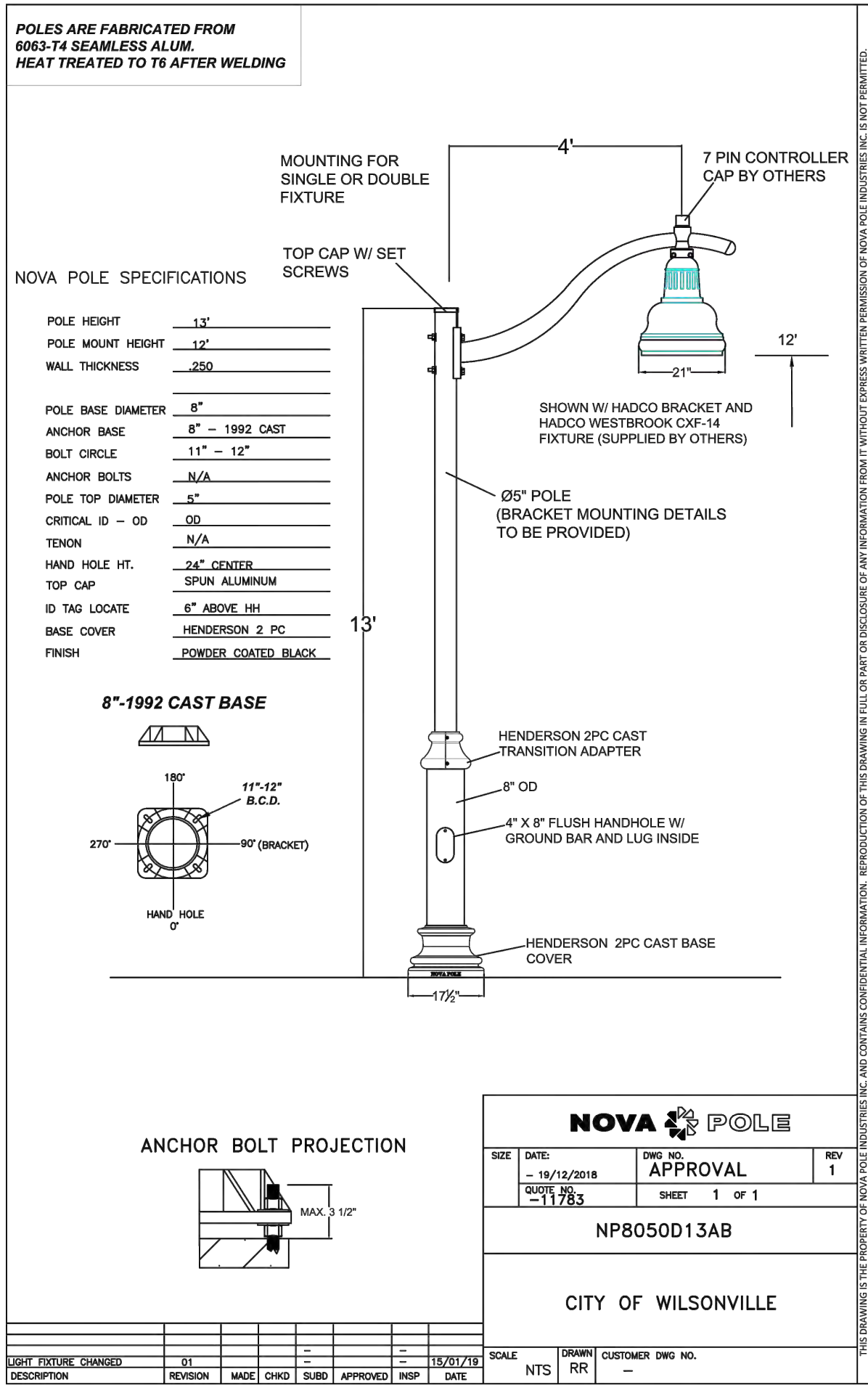
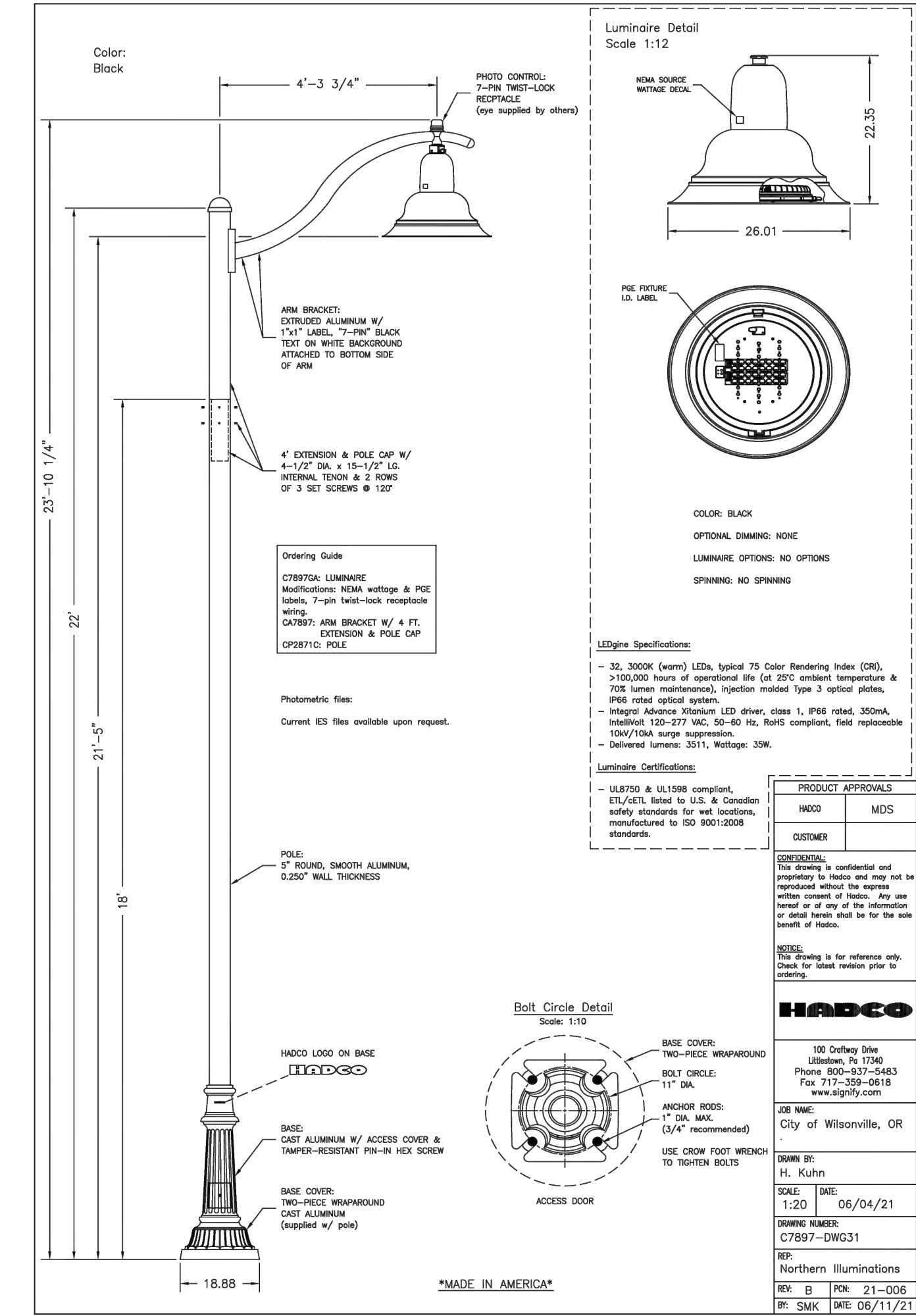
JCH ASY
DRAWN BY CHECKED BY
PRELIMINARY
STATUS
DECEMBER 17, 2021
DATE
27328
PROJECT NUMBER

IL-1

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Preliminary
01/04/2022 11:26:08 AM



Preliminary
01/04/2022 11:26:03 AM

W

WHLand_Logo_Break.jpg

**KITTELSON
& ASSOCIATES**

851 SW 6TH AVENUE, SUITE 600
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STAMP

REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL
STATE OF OREGON
NO. 10488
EXPIRES: 06/30/22

CONSULTANT

FROG POND OAKS

ILLUMINATION DETAILS

TITLE

#	DATE	DESCRIPTION

REVISIONS

JCH	ASY
DRAWN BY	CHECKED BY
PRELIMINARY	
STATUS	
DECEMBER 17, 2021	
DATE	
27328	
PROJECT NUMBER	

IL-2

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Plotted: Jan 04, 2022 - 11:03am H:\27\27328 - Frog Pond Development\design\Frog Pond Oaks_CD\27328 Frog Pond Oaks Lum Plans.dwg Layout Name: IL3

This Detail Drawing may not be altered or changed in any manner except by the City Engineer. It is the responsibility of the user to acquire the most current version.

JUNCTION BOX PLACEMENT WITHIN SIDEWALKS
SHOULD AVOID INSTALLING JUNCTION BOXES IN SIDEWALKS WHENEVER POSSIBLE. (JUNCTION BOXES TO BE LOCATED ONLY IN FLAT AREAS OF SIDEWALKS. CONCRETE JUNCTION BOXES ARE NOT TO BE INSTALLED IN SLOPES OF RAMPS OR DRIVEWAYS.) JUNCTION BOXES PLACED WITHIN SIDEWALKS SHALL INCLUDE A FULL PANEL REMOVAL AND REINSTALL

TYPE	L	W	D
JB1	17"	10"	12"
JB2	22"	12"	12"
JB3	30"	17"	12"

JUNCTION BOX DIMENSION TABLE

TYPE	L	W	D
JB1	17"	10"	12"
JB2	22"	12"	12"
JB3	30"	17"	12"

Electrical Junction Boxes			CITY OF WILSONVILLE PUBLIC WORKS STANDARDS
DRAWING NUMBER: RD-1325	DRAWN BY: SR	SCALE: N.T.S.	
FILE NAME: RD1325.dwg	APPROVED BY: NK	DATE: 08/08/17	

STREETLIGHT FOOTING REQUIREMENTS			CITY OF WILSONVILLE PUBLIC WORKS STANDARDS
DRAWING NUMBER: RD-1340	DRAWN BY: SR	SCALE: N.T.S.	
FILE NAME: RD-1340.dwg	APPROVED BY: NK	DATE: 08/08/17	

- ALL CONCRETE FOOTINGS NEED TO BE INSTALLED WITH TOP OF BASE FLUSH TO CURB/SIDEWALK.
- ALL CROSSINGS MUST EXTEND FROM PROPERTY LINE TO PROPERTY LINE. CROSSINGS TO BE 48 INCHES DEEP, MEASURED FROM FINAL GRADE.
- DIRECTIONAL BORING REQUIREMENTS: BLACK HDPE (HIGH DENSITY POLYETHYLENE) DUCT OR SCHEDULE 40 PVC WITH A MECHANICAL CONNECTION (CERTA-LOK OR LIKE MECHANICAL CONNECTION PRODUCT) PROJECT EXTRUDED RED STRIPES (WHICH IS A SPECIFICATION REQUIREMENT) MANDREL TEST OF HDPE PIPE IS REQUIRED AFTER INSTALLATION WITH CITY INSPECTOR PRESENT.
- TRENCH AND ELBOW CONFIGURATIONS, ALL CONDUIT, VAULT AND PAD INSTALLATIONS MUST BE INSPECTED PRIOR TO BACKFILLING.
- ALL CONDUCTORS TO BE INSTALLED IN GRAY, SCHEDULE 40, ELECTRICAL GRADE, PVC CONDUIT WITH NYLON PULL STRINGS (MIN 500 LBS. TEST). PGE TO DETERMINE THE SIZE AND NUMBER OF CONDUITS REQUIRED. MAINTAIN 12 VERTICAL INCHES AND 24 HORIZONTAL INCHES CLEARANCE BETWEEN GAS AND OTHER UTILITIES. ALL ELBOWS 4 INCH & SMALLER TO BE 36 INCH RADIUS. ALL BENDS MUST BE FACTORY MADE. ALL ELBOWS LARGER THAN 4 INCH TO BE 60 INCH RADIUS. RIGID STEEL OR PGE APPROVED. FIBERGLASS BENDS ARE REQUIRED FOR RUNS OF 151 FEET OR LONGER, OR FOR ANY LENGTH RUN WITH MORE THAN 180 DEGREES IN BENDS. PVC SCHEDULE 40 BENDS ARE ACCEPTABLE FOR RUNS OF 150 FEET OR LESS. THE MAXIMUM TOTAL BENDS IN ANY CONDUIT RUN IS 270 DEGREES.
- THE AIR GAP, IF ANY BETWEEN THE TOP OF THE FOOTING/PEDESTAL AND THE BOTTOM OF THE POLE SHALL BE GROUTED WITH HIGH STRENGTH, NON-SHRINK GROUT.

This Detail Drawing may not be altered or changed in any manner except by the City Engineer. It is the responsibility of the user to acquire the most current version.

POLES AND MAST ARMS

Length & Type	Valmont	Hadco	P&K Poles (Flagpole Inc)	Union Metal
30 foot, Davit 6' Mast Arm (1952) (CU 279)	3000-85106D4	41-176PGE	RTA8130AAD1632D	920-B179-Y1
30 foot, Double Davit 2-6' Mast	3000-856206D4Z	42-158XPGE	NONE	920-B180-Y1
35 foot, Davit 8' Mast	3500-8108D4	41-231PGE	RTA8M35AAD1832D	920-B179-Y2

POLE: DECORATIVE BLACK ALUMINUM (Use with Hadco Westbrook Fixture)

Length	Hadco
18 Foot, Black, Smooth Anchor Base (11" B.C.)	CP2871C (40034)
4 Foot Pole Extension w/Arm Bracket, Pole Cap, and 18 Foot Smooth Westbrooke Pole (CU 1437)	CA7897-HFP710-P5A (90002579)
4 Foot Pole Extension w/Double Mast Arm, Pole Cap, and 18 Foot Smooth Westbrooke Pole (CU 1438)	CA2871L-HFP720-P5A (90003564)

POLES: COMPOSITE, 2-PIECE, SMOOTH FINISH, DIRECT-BURIED, TOP PIECE ONLY

Length & Type	Mounting Height & Color	Shakespeare	CMT
30 Foot, Direct Buried	25 Feet, Bronze	BHT309955B19901 (39938) (CU 1111)	MDS30-F-100-52-HS-PC-NP-1B-22 (39372) (CU 1112)

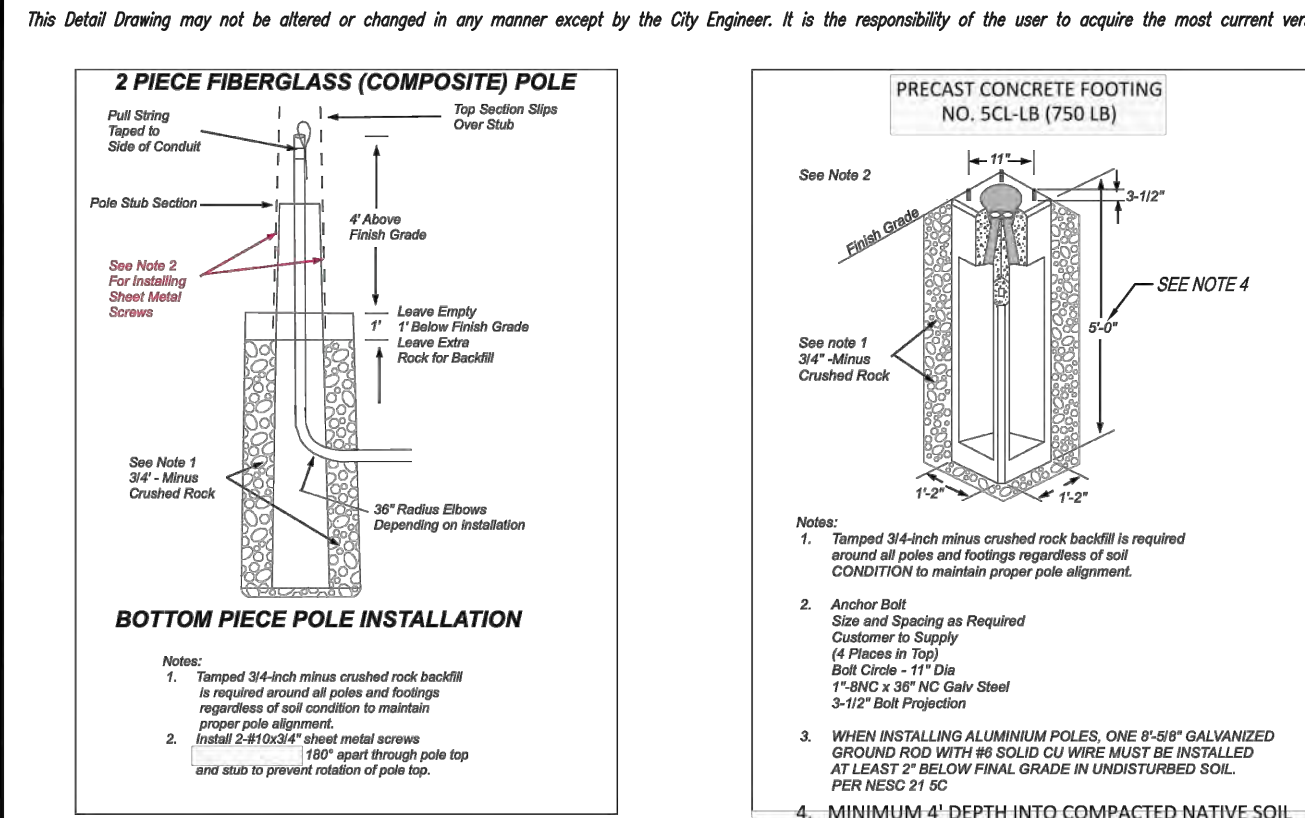
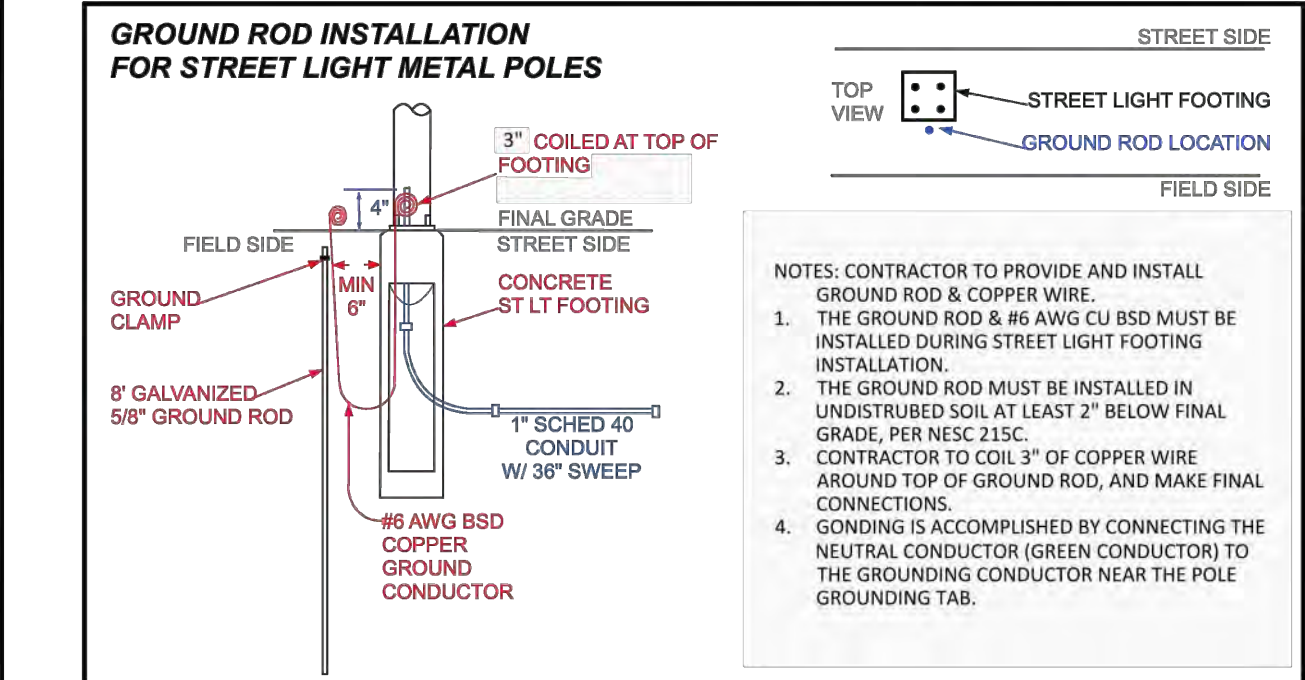
POLE FOOTINGS: CONCRETE

Precast Concrete Base	Bolt Circle	Bolt Projection	Bolt Type	Base Dimensions	Utility Vault Company
For all decorative and post-top anchor base poles 14 to 25 feet. (39083)				20" Round by 48" High	20R-LB-4- PGE
For 25 to 35 Foot Aluminum Anchor Base Poles (00147)	11 inch	3-1/2 inch	1" - 8 NC Galv Steel	14" Square by 60" High	SCL-LB- PGE
For 40 Foot Aluminum Anchor Base Poles (39094)				18" Top 24" Bottom 84" High	7-LB- PGE

Approved Street Lighting Equipment for New Installations Pg 4

DRAWING NUMBER: RD-1345	DRAWN BY: SR	SCALE: N.T.S.	CITY OF WILSONVILLE PUBLIC WORKS STANDARDS
FILE NAME: RD-1345.dwg	APPROVED BY: NK	DATE: 08/28/17	

Streetlight Footing Requirements			CITY OF WILSONVILLE PUBLIC WORKS STANDARDS
DRAWING NUMBER: RD-1335	DRAWN BY: SR	SCALE: N.T.S.	
FILE NAME: RD-1335.dwg	APPROVED BY: NK	DATE: 08/08/17	



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MISCELLANEOUS

GROUT

Non-Shrink Grout, such as Alcrete Twenty Minute Fast Setting Grout, or approved equal

The air gap between the top of pedestal and bottom of light pole shall be grouted with a high-strength, non-shrinking grout meeting ODOT SSC Section 02440.50(b).

MANHOLE COVER: GRAY, PLASTIC, STEEL CORE, UNIVERSAL
Quantum Engineering TL-S (90004595)

STREETLIGHT WIRE: UNDERGROUND OR IN POLE

Streetlight Wire Description

#10 CU 3-Conductor (00036) (CU 635)	#10 AWG, 600 Volt, 3-Conductor, Class B Stranding, Type TC, with Sunlight-Resistant 45-mil PVC Jacket. Suitable for direct burial installations. Insulation to be black, red, and green per NEMA WC-7 for NEC applications (TFN, THWN, THHN), with fillers or bonding tape added to produce round outer jacket, rated 90DC dry and 75DC wet, 1,000 ft NR reels. Jacket to display sequential footage markings. 2 reel labels, one attached to the outside flange surface, one attached to the drum wrapping; each to detail total footage, inside or starting footage.

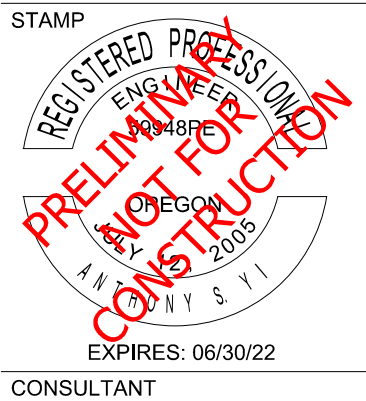
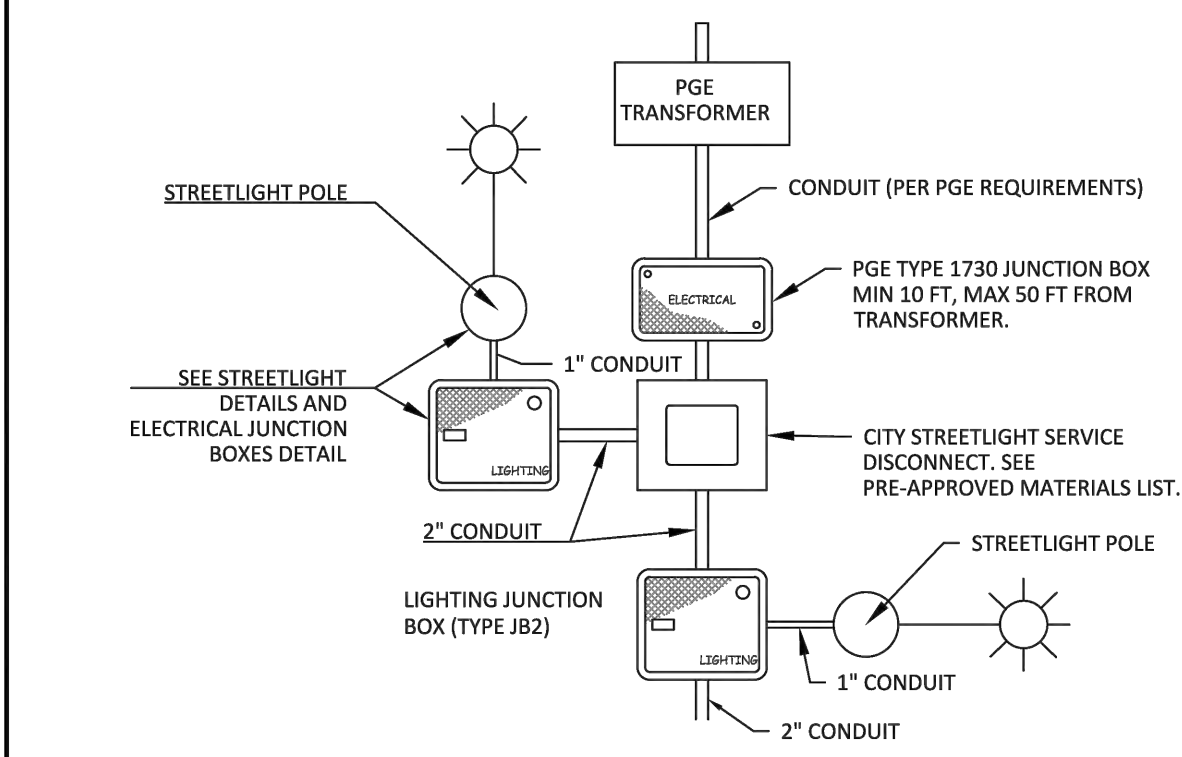
JUNCTION BOX: FOR UNDERGROUND CONDUCTORS & CONNECTIONS

Junction Box Description	Junction Box, Concrete Polymer Lid, Fiberglass Reinforced Polymer flared sides, 18" Deep, No Floor, With Skid Resistant Cover Attached by Two Captive stainless steel 3/8-inch Penta-head Bolts, Gray Color, per Material Specification L26107 Note: 12"x12"x12" is 12 inches deep with straight sides. Covers must be marked ELECTRIC or POWER.

Approved Street Lighting Equipment for New Installations Pg 5

DRAWING NUMBER: RD-1345	DRAWN BY: SR	SCALE: N.T.S.	CITY OF WILSONVILLE PUBLIC WORKS STANDARDS
FILE NAME: RD-1345.dwg	APPROVED BY: NK	DATE: 08/28/17	

Streetlight Disconnect			CITY OF WILSONVILLE PUBLIC WORKS STANDARDS
DRAWING NUMBER: RD-1330	DRAWN BY: SR	SCALE: N.T.S.	
FILE NAME: RD1330.dwg	APPROVED BY: NK	DATE: 08/08/17	



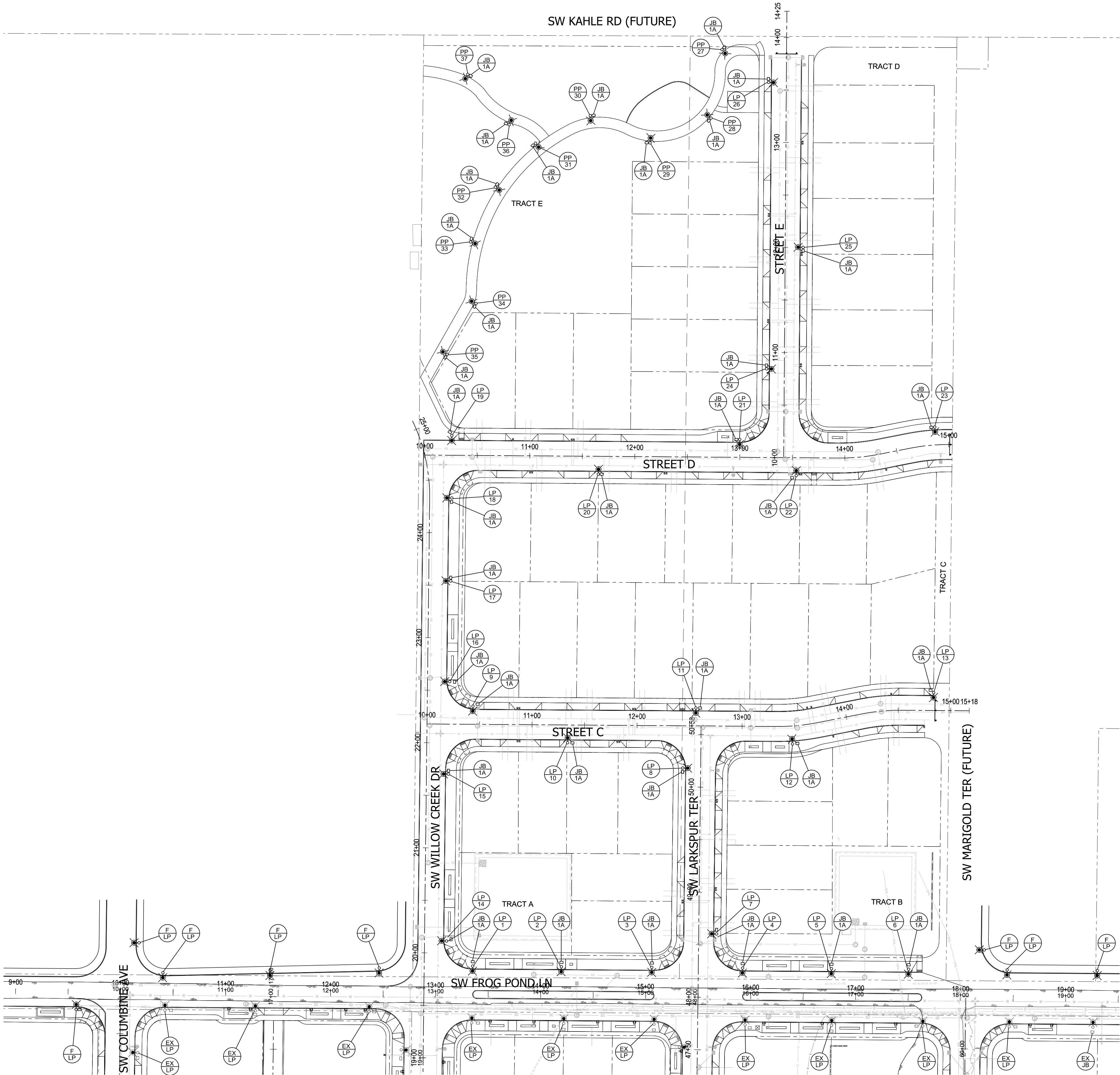
FROG POND OAKS
ILLUMINATION DETAILS

TITLE		
#	DATE	DESCRIPTION
REVISIONS		
JCH	ASY	
DRAWN BY	CHECKED BY	
PRELIMINARY		
STATUS		
DECEMBER 17, 2021		
DATE		
27328		
PROJECT NUMBER		

Preliminary
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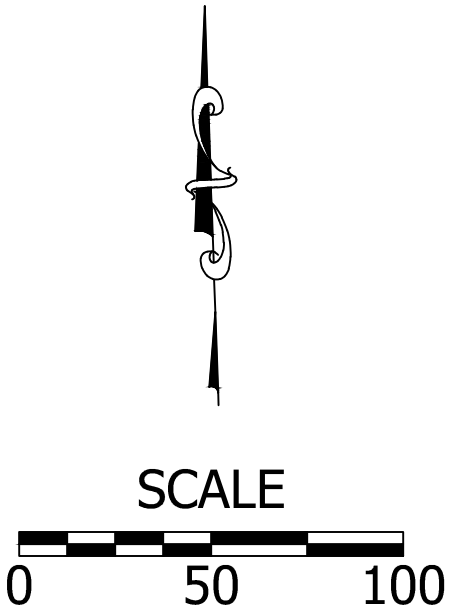
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LEGEND

- FUTURE LUMINAIRE POLE. TO BE INSTALLED BY OTHERS.
- EXISTING LUMINAIRE POLE.
- INSTALL 17"X10"X12" (MIN. DIMENSION) PRECAST CONCRETE JUNCTION BOX WITH CONCRETE APRON.
- INSTALL N (N=NUMBER) LUMINAIRE POLE.
- INSTALL N (N=NUMBER) PEDESTRIAN PATH POLE.



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KITTELSON & ASSOCIATES

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PORTLAND, OR 97204
P 503.228.5230 F 503.273.8168

STAMP



CONSULTANT

FROG POND OAKS

ILLUMINATION PLAN

TITLE		
#	DATE	DESCRIPTION
REVISIONS		
JCH	ASY	
DRAWN BY	CHECKED BY	
PRELIMINARY		
STATUS		
DECEMBER 17, 2021		
DATE		
27328		
PROJECT NUMBER		

IL-4

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