

PORT OF TACOMA

LOWER WAPATO CREEK HABITAT PROJECT MASTER ID 101449.01 CONTRACT 071490

PORT COMMISSIONERS:

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DON MEYER
DICK MARZANO
DEANNA KELLER
KRISTIN ANG

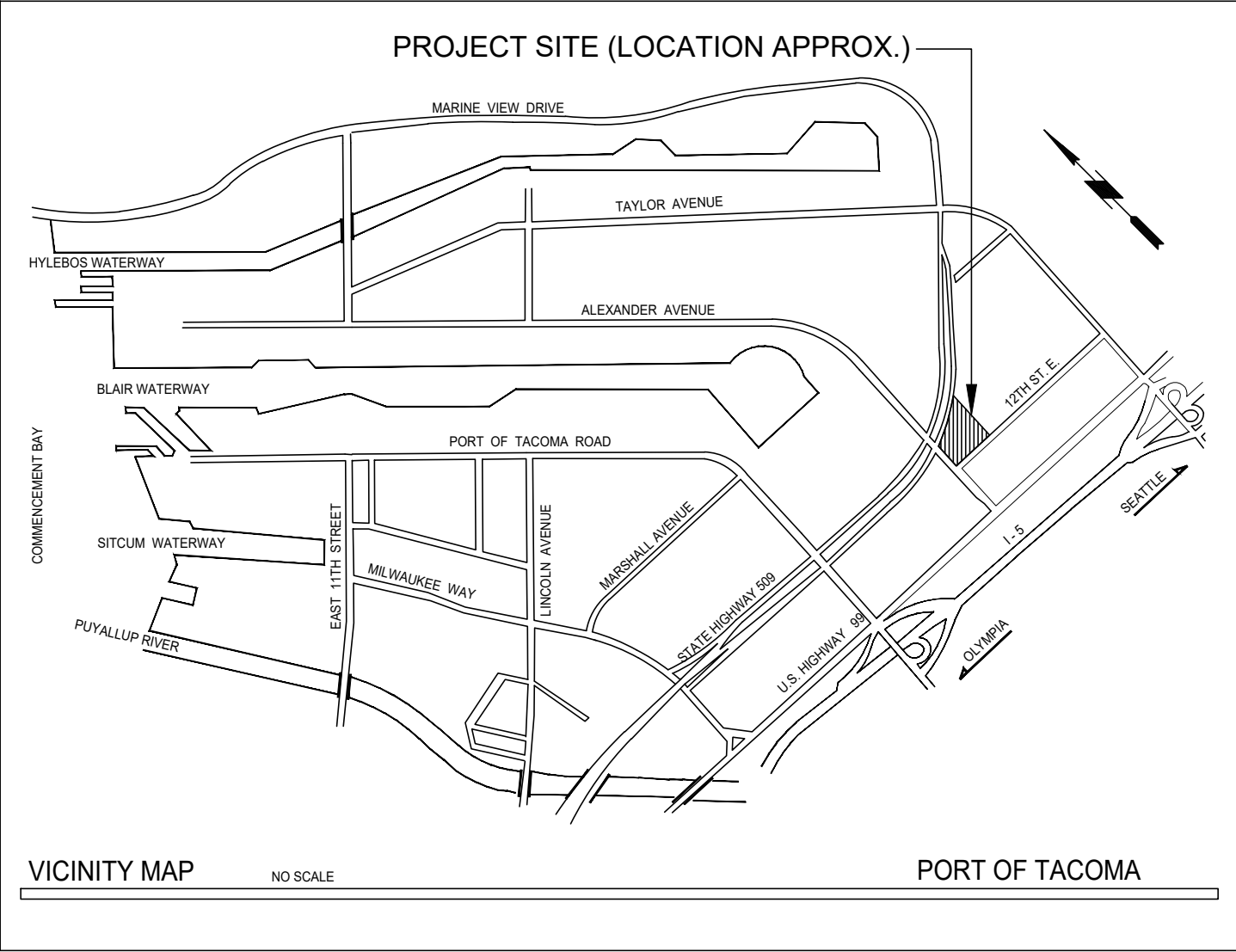
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PROJECT MANAGER: DERRICK EBERLE

DRAWING LIST		
SHEET DESIGNATION	SHEET #	SHEET TITLE
LANDSCAPING		
G1.00	1	COVER SHEET
L1.00	2	LAYOUT PLAN
LI4.00	3	IRRIGATION PLAN
LI4.10	4	IRRIGATION DETAILS
LP5.00	5	FULL SITE PLANTING PLAN
LP5.10	6	ZONE A PLANTING ENLARGEMENT
LP5.11	7	ZONE B PLANTING ENLARGEMENT
LP5.12	8	ZONE C PLANTING ENLARGEMENT
LP5.13	9	ZONE D PLANTING ENLARGEMENT
LP5.14	10	ZONE E PLANTING ENLARGEMENT
LP5.20	11	UPLAND ZONE PROTOTYPICAL LAYOUT
LP5.21	12	UPLAND ENHANCEMENT ZONE PROTOTYPICAL LAYOUT
LP5.22	13	UPLAND MODIFIED ZONE PROTOTYPICAL LAYOUT
LP5.23	14	SALT TOLERANT TRANSITIONAL ZONE PROTOTYPICAL LAYOUT
LP5.24	15	SALT TOLERANT WETLAND PALUSTRINE FORESTED ZONE PROTOTYPICAL LAYOUT
LP5.30	16	PLANTING DETAILS
LP5.31	17	PLANTING SCHEDULE

6657

G1.00

CONT/CONS: 071490
M. ID: 101449.01
PHASE:

LOWER WAPATO CREEK
HABITAT PROJECT
PHASE II PLANTING, IRRIGATION, AND FENCING

COVER SHEET

TOWNSHIP: 20N
RANGE: 3E
SECTION: 1
DATE-HRZ: WA83-SF
PARCEL: 14

VERT: MILLW (PORT OF TACOMA TIDAL)
DRAWING SCALE: AS NOTED

APPROVED:

CHECKED BY: DJE
DATE: 02/25/2022

PROJ. ENGR: Aveeo
DATE: May 24, 2022

DIRECTOR ENG: Aveeo
DATE: May 24, 2022

PRINTED BY: TACOMA
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TACOMA, WA 98421

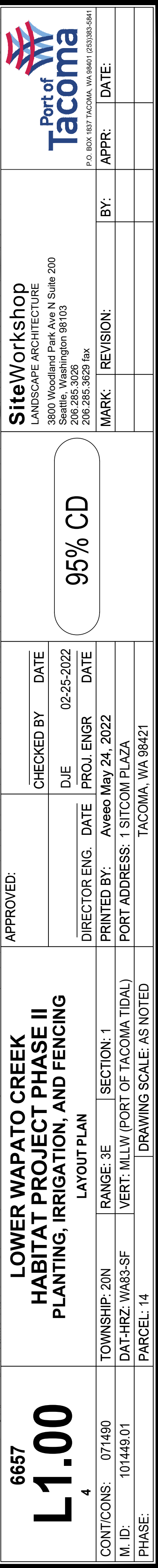
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Seattle, Washington 98103
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P.O. BOX 1837 TACOMA, WA 98401 (253)933-5841

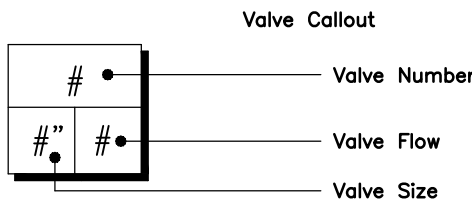
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IRRIGATION SCHEDULE

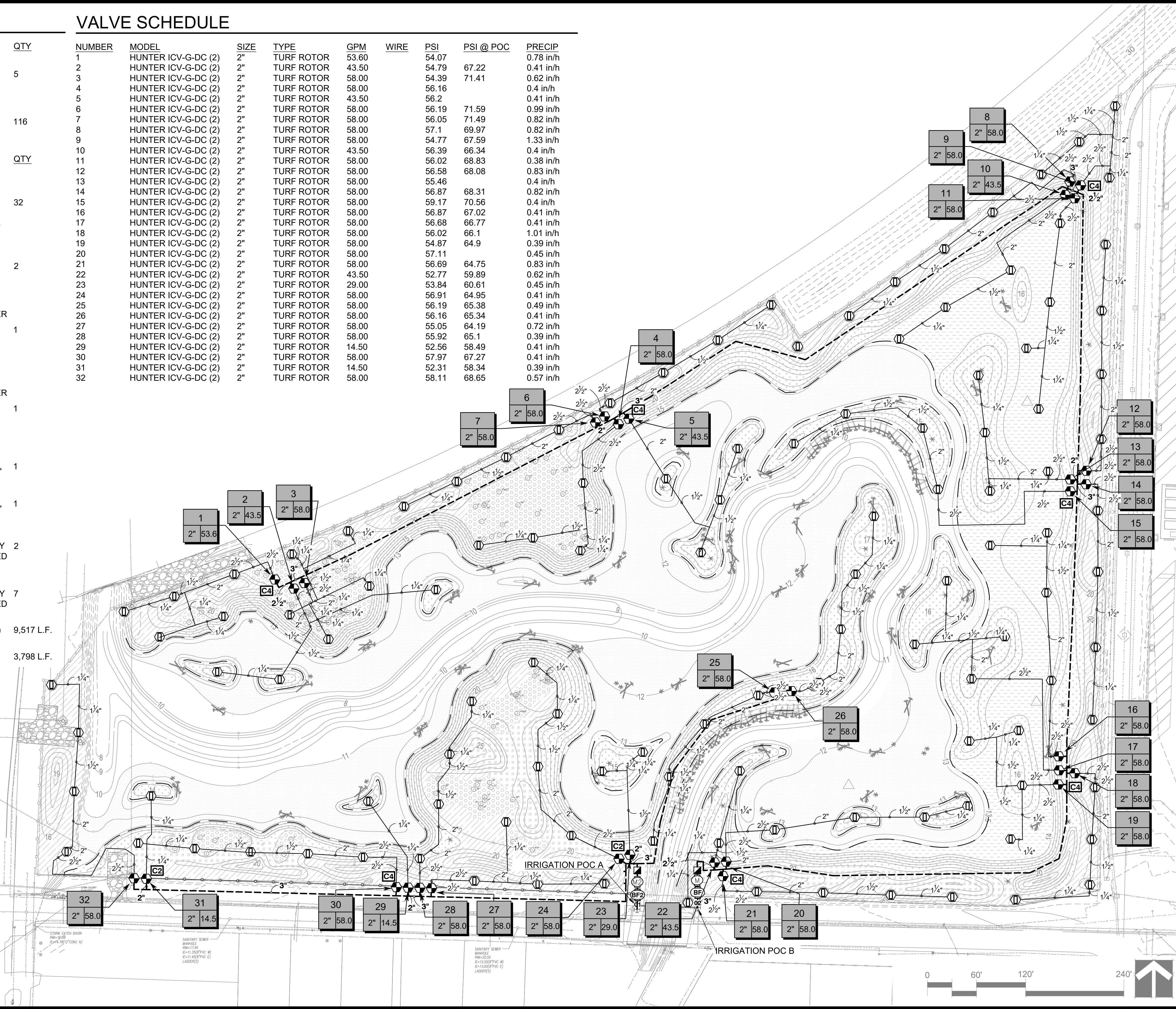
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	HUNTER I-25-04 (50 PSI)	5
	TURF ROTOR, 4" POP-UP, ADJUSTABLE AND FULL CIRCLE. PLASTIC RISER. DRAIN CHECK VALVE. STANDARD NOZZLE.	
	HUNTER I-25-04 (50 PSI)	116
	TURF ROTOR, 4" POP-UP, ADJUSTABLE AND FULL CIRCLE. PLASTIC RISER. DRAIN CHECK VALVE. STANDARD NOZZLE.	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	HUNTER ICV-G-DC (2)	32
	1", 1-1/2", 2", AND 3" PLASTIC ELECTRIC REMOTE CONTROL VALVES, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE. WITH DC LATCHING SOLENOID FACTORY INSTALLED OPTION.	
	HUNTER HQ-5LRC	2
	QUICK COUPLER VALVE, YELLOW LOCKING RUBBER COVER, RED BRASS AND STAINLESS STEEL, WITH 1" NPT INLET, 1-PIECE BODY.	
	HUNTER ICV-G-DC (MASTER VALVE) 2" 1", 1-1/2", 2", AND 3" PLASTIC ELECTRIC MASTER VALVE, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE. WITH DC LATCHING SOLENOID FACTORY INSTALLED OPTION.	1
	FEBCO 850 2"	1
	DOUBLE CHECK BACKFLOW PREVENTION, 1/2" TO 2"	
	FEBCO 850 2"	1
	DOUBLE CHECK BACKFLOW PREVENTION, 1/2" TO 2"	
	HUNTER NODE-200	2
	2-STATION CONTROLLER, OUTDOOR, BATTERY POWERED. DC LATCHING SOLENOID ORDERED SEPARATELY.	
	HUNTER NODE-400	7
	4-STATION CONTROLLER, OUTDOOR, BATTERY POWERED. DC LATCHING SOLENOID ORDERED SEPARATELY.	
IRRIGATION LATERAL LINE: PVC SCHEDULE 40		9,517 L.F.
IRRIGATION MAINLINE: PVC SCHEDULE 40		3,798 L.F.



- GENERAL NOTES:
- ALL IRRIGATION LINES TO BE INSTALLED AT-GRADE.
 - IRRIGATION HEADS TO BE INSTALLED ON 3" RISERS.
 - IRRIGATION SYSTEM TO BE REMOVED AFTER 2 YEAR PLANT ESTABLISHMENT PERIOD.
- IRRIGATION LAYOUT & STAKING:
- FIELD LOCATING AND STAKING OF IRRIGATION SYSTEM COMPONENTS SHALL BE AS SHOWN ON DRAWINGS AND BY COORDINATES OBTAINED VIA ELECTRONIC DRAWING FILES WHICH WILL BE PROVIDED TO THE CONTRACTOR AFTER RECEIVING WRITTEN REQUEST FOLLOWING THE NOTICE OF AWARD.
 - COORDINATES DERIVED FROM THE ELECTRONIC FILES OF THESE SCHEMATIC PLANS ARE APPROXIMATE LOCATIONS THAT MAY BE USED ONLY FOR PRELIMINARY STAKING OF IRRIGATION SYSTEM COMPONENTS (ACTUAL COMPONENT LOCATIONS SHALL BE PER DRAWINGS, SPECIFICATIONS, AND ANY NECESSARY FIELD MODIFICATIONS).

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	WIRE	PSI	PSI @ POC	PRECIP
1	HUNTER ICV-G-DC (2)	2"	TURF ROTOR	53.60		54.07		0.78 in/h
2	HUNTER ICV-G-DC (2)	2"	TURF ROTOR	43.50		54.79	67.22	0.41 in/h
3	HUNTER ICV-G-DC (2)	2"	TURF ROTOR	58.00		54.39	71.41	0.62 in/h
4	HUNTER ICV-G-DC (2)	2"	TURF ROTOR	58.00		56.16		0.4 in/h
5	HUNTER ICV-G-DC (2)	2"	TURF ROTOR	43.50		56.2		0.41 in/h
6	HUNTER ICV-G-DC (2)	2"	TURF ROTOR	58.00		56.19	71.59	0.99 in/h
7	HUNTER ICV-G-DC (2)	2"	TURF ROTOR	58.00		56.05	71.49	0.82 in/h
8	HUNTER ICV-G-DC (2)	2"	TURF ROTOR	58.00		57.1	69.97	0.82 in/h
9	HUNTER ICV-G-DC (2)	2"	TURF ROTOR	58.00		54.77	67.59	1.33 in/h
10	HUNTER ICV-G-DC (2)	2"	TURF ROTOR	43.50		56.39	66.34	0.4 in/h
11	HUNTER ICV-G-DC (2)	2"	TURF ROTOR	58.00		56.02	68.83	0.38 in/h
12	HUNTER ICV-G-DC (2)	2"	TURF ROTOR	58.00		56.58	68.08	0.83 in/h
13	HUNTER ICV-G-DC (2)	2"	TURF ROTOR	58.00		55.46		0.4 in/h
14	HUNTER ICV-G-DC (2)	2"	TURF ROTOR	58.00		56.87	68.31	0.82 in/h
15	HUNTER ICV-G-DC (2)	2"	TURF ROTOR	58.00		59.17	70.56	0.4 in/h
16	HUNTER ICV-G-DC (2)	2"	TURF ROTOR	58.00		56.87	67.02	0.41 in/h
17	HUNTER ICV-G-DC (2)	2"	TURF ROTOR	58.00		56.68	66.77	0.41 in/h
18	HUNTER ICV-G-DC (2)	2"	TURF ROTOR	58.00		56.02	66.1	1.01 in/h
19	HUNTER ICV-G-DC (2)	2"	TURF ROTOR	58.00		54.87	64.9	0.39 in/h
20	HUNTER ICV-G-DC (2)	2"	TURF ROTOR	58.00		57.11		0.45 in/h
21	HUNTER ICV-G-DC (2)	2"	TURF ROTOR	58.00		56.69	64.75	0.83 in/h
22	HUNTER ICV-G-DC (2)	2"	TURF ROTOR	43.50		52.77	59.89	0.62 in/h
23	HUNTER ICV-G-DC (2)	2"	TURF ROTOR	29.00		53.84	60.61	0.45 in/h
24	HUNTER ICV-G-DC (2)	2"	TURF ROTOR	58.00		56.91	64.95	0.41 in/h
25	HUNTER ICV-G-DC (2)	2"	TURF ROTOR	58.00		56.19	65.38	0.49 in/h
26	HUNTER ICV-G-DC (2)	2"	TURF ROTOR	58.00		56.16	65.34	0.41 in/h
27	HUNTER ICV-G-DC (2)	2"	TURF ROTOR	58.00		55.05	64.19	0.72 in/h
28	HUNTER ICV-G-DC (2)	2"	TURF ROTOR	58.00		55.92	65.1	0.39 in/h
29	HUNTER ICV-G-DC (2)	2"	TURF ROTOR	14.50		52.56	58.49	0.41 in/h
30	HUNTER ICV-G-DC (2)	2"	TURF ROTOR	58.00		57.97	67.27	0.41 in/h
31	HUNTER ICV-G-DC (2)	2"	TURF ROTOR	14.50		52.31	58.34	0.39 in/h
32	HUNTER ICV-G-DC (2)	2"	TURF ROTOR	58.00		58.11	68.65	0.57 in/h



6657

L14.00

2

CONT/CONS: 071490

M. ID: 101449.01

PHASE:

APPROVED:

CHECKED BY: DATE

DJE 02-25-2022

DIRECTOR ENGR. DATE

Aveeo May 24, 2022

PRINTED BY:

PORT ADDRESS: 1 SITCOM PLAZA

TACOMA, WA 98421

SiteWorkshop

LANDSCAPE ARCHITECTURE

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Seattle, Washington 98103

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LOWER WAPATO CREEK

HABITAT PROJECT PHASE II

PLANTING, IRRIGATION, AND FENCING

IRRIGATION PLAN

RANGE: 3E SECTION: 1

TOWNSHIP: 20N

DAT-HRZ: WA83-SF

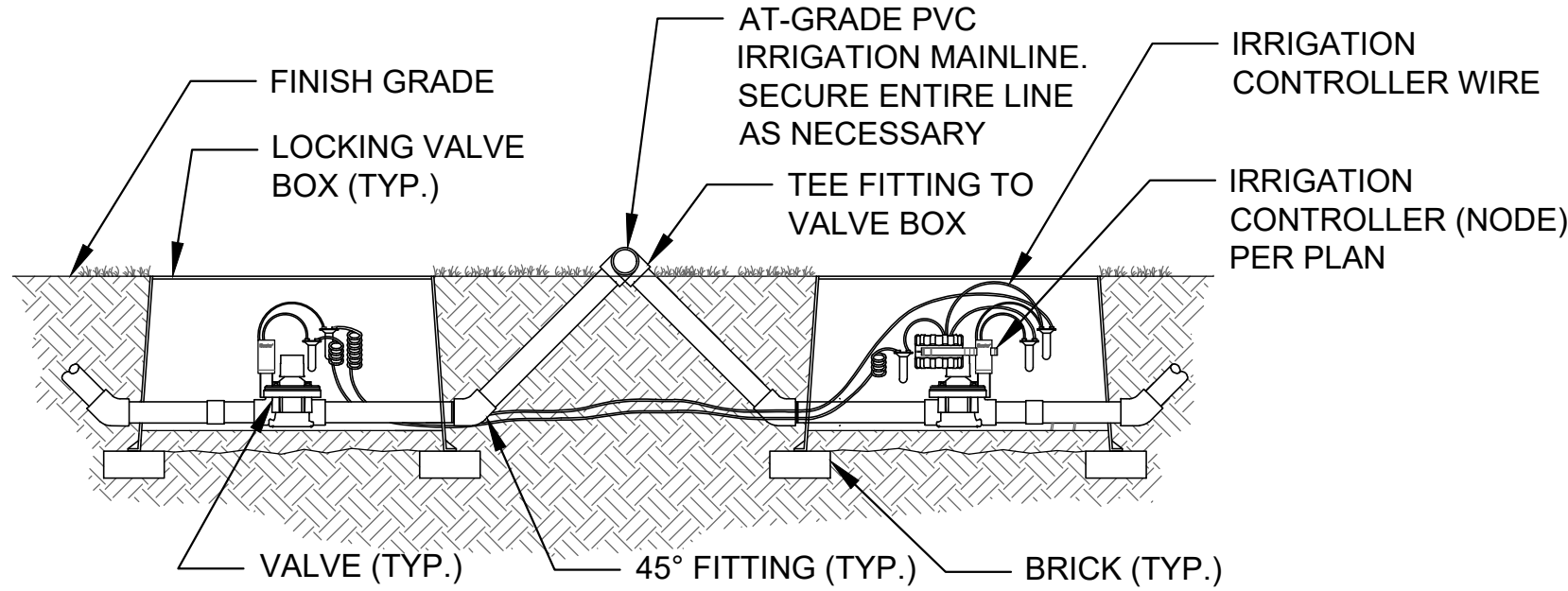
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PARCEL: 14

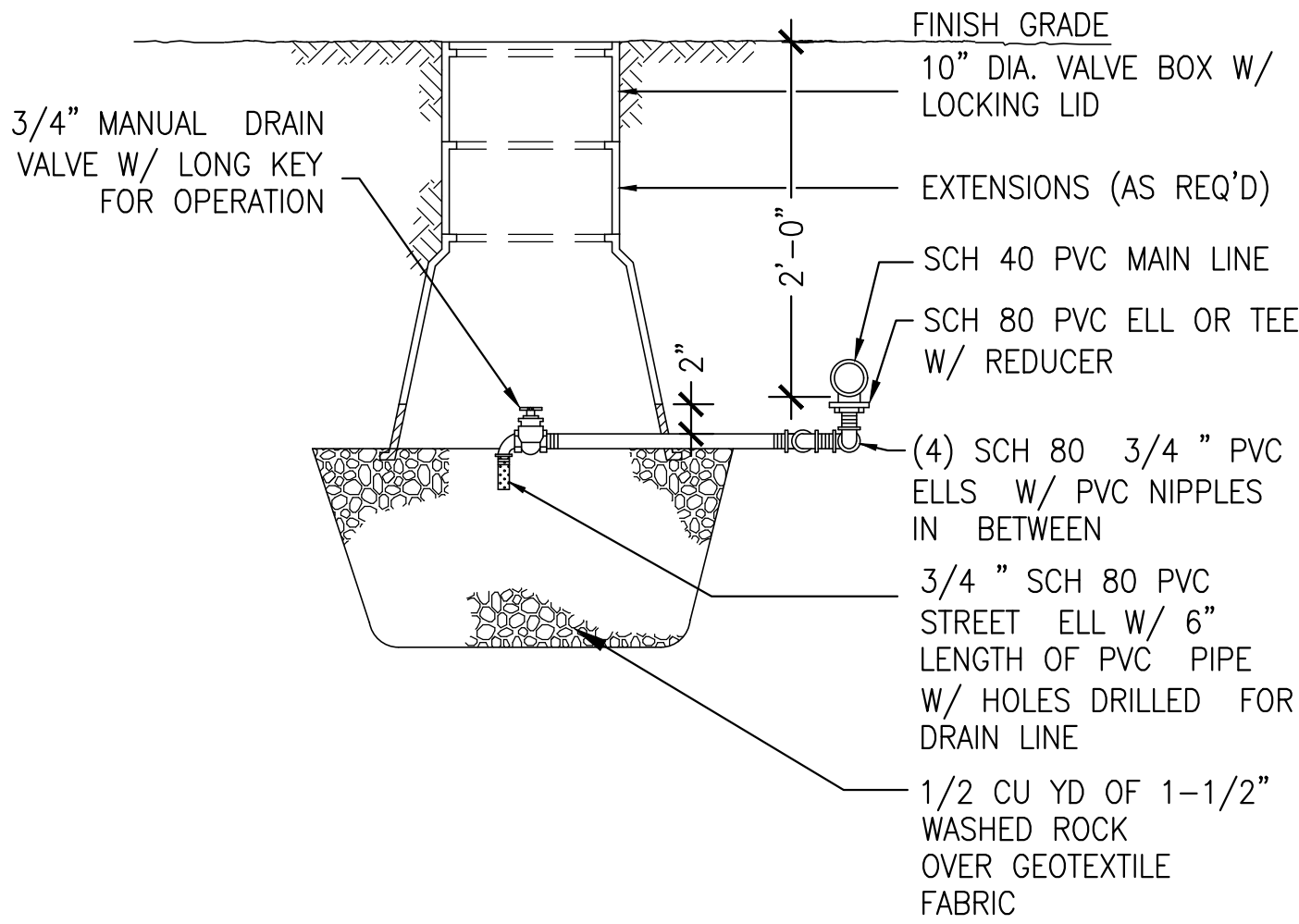
DRAWING SCALE: AS NOTED

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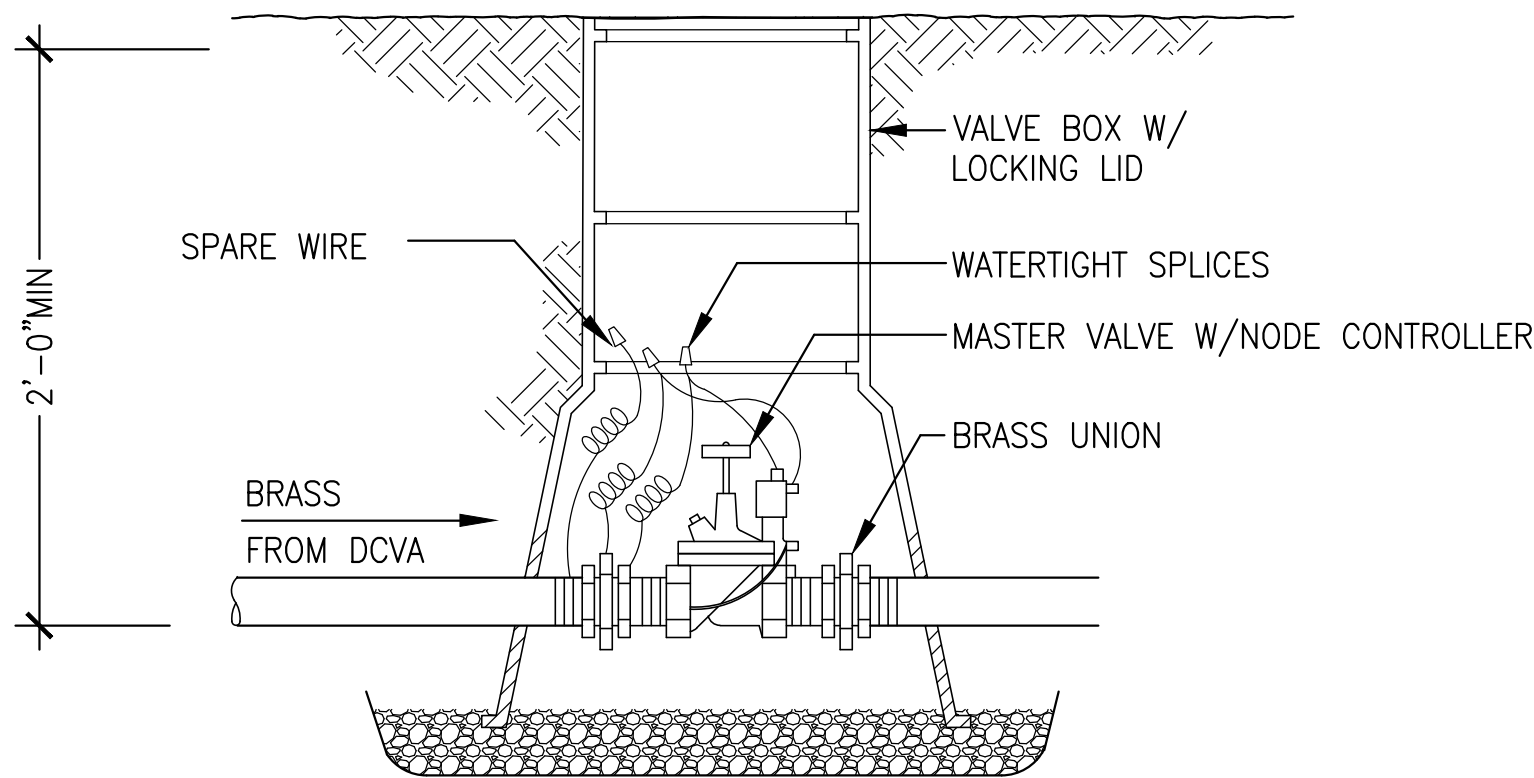


1 VALVE CONTROL ASSEMBLY
SCALE: NTS

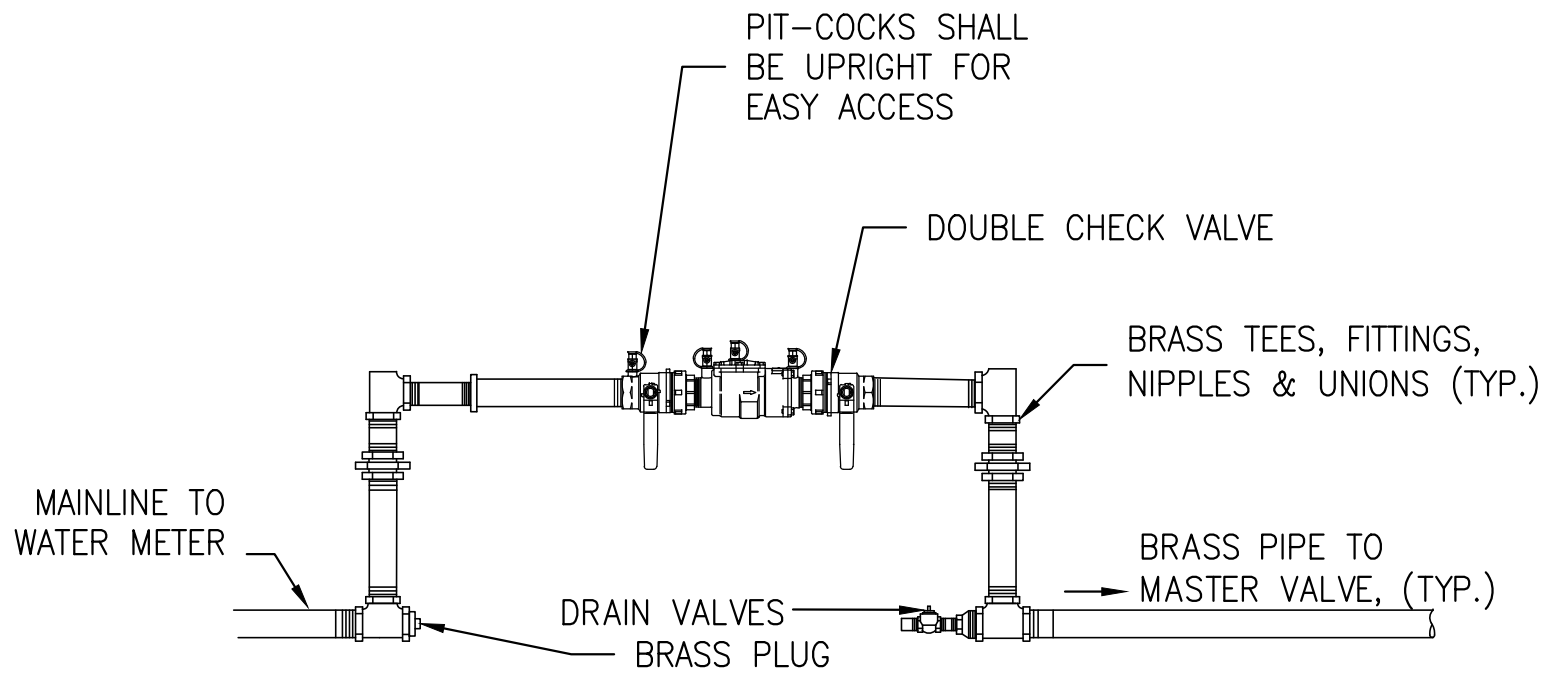


2 MANUAL DRAIN VALVE
SCALE: NTS

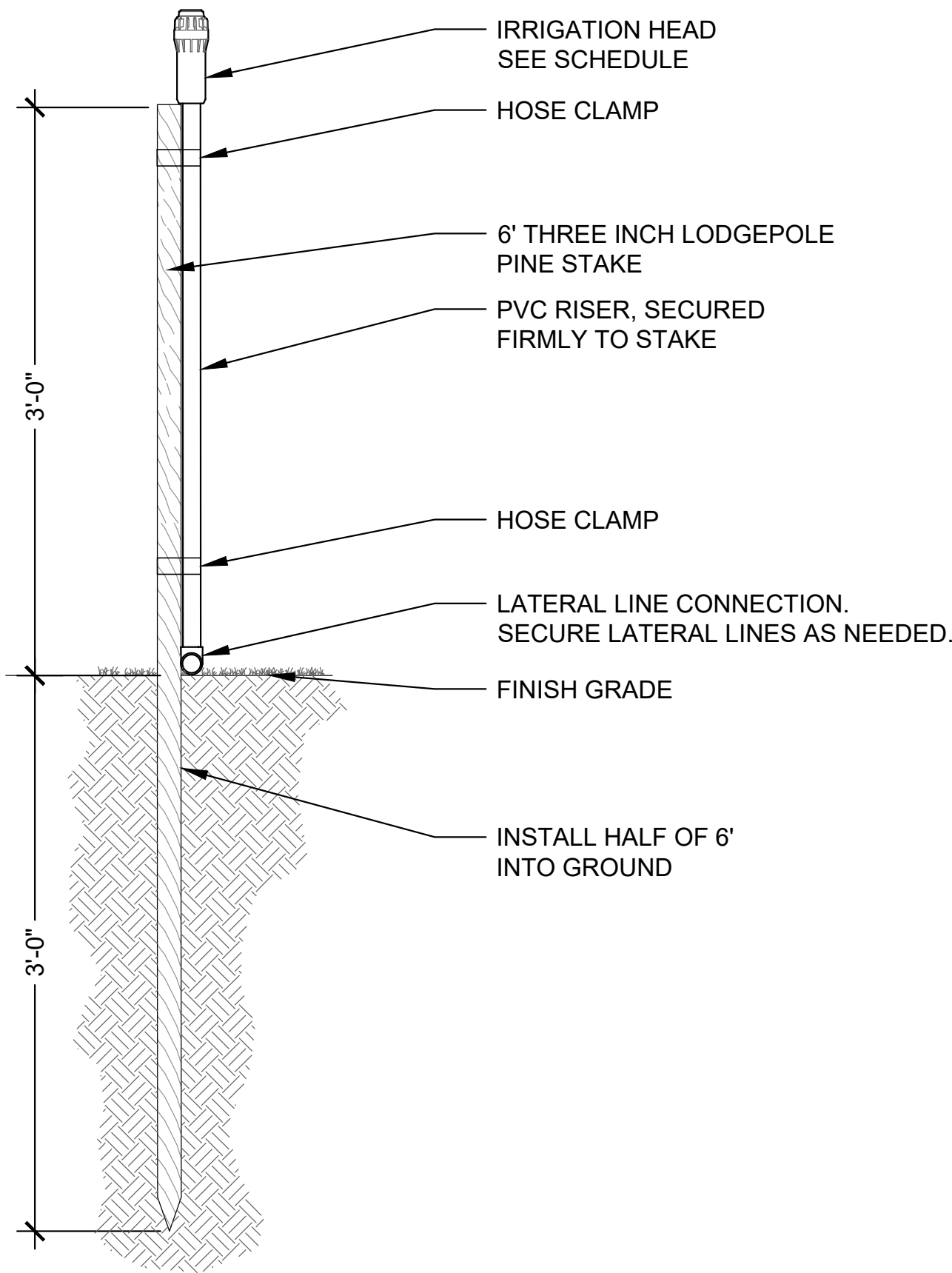
SAAS_DRAIN VALVE



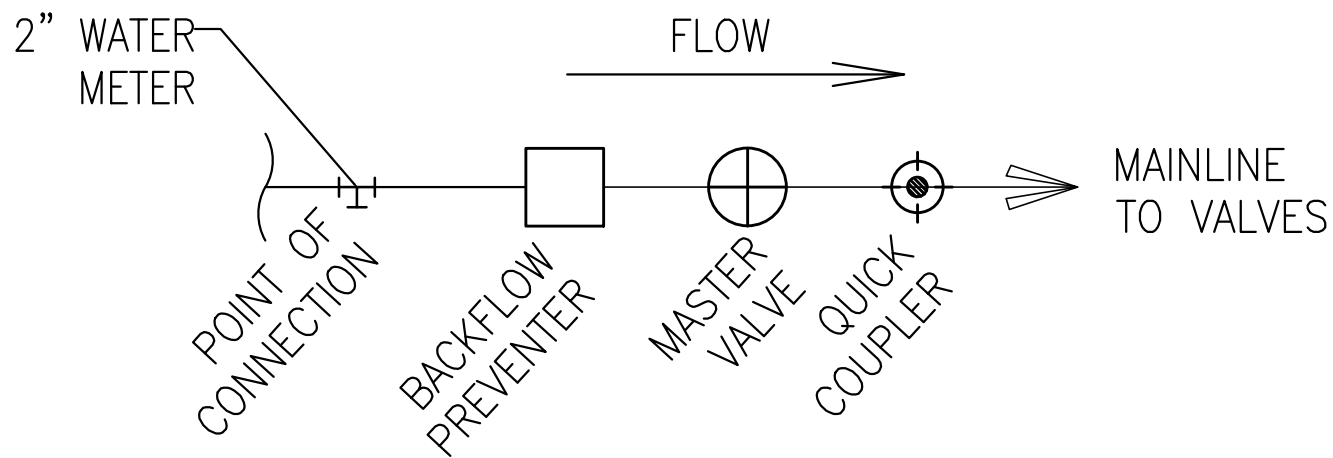
3 MASTER VALVE
SCALE: N.T.S.



6 DOUBLE CHECK BACKFLOW PREVENTION
NOT TO SCALE



4 IRRIGATION RISER
SCALE: NTS



5 POINT OF CONNECTION ASSEMBLY
NOT TO SCALE

L4.10 LWCHP IRRIGATION DETAILS.DWG

6657 L4.10 4		LOWER WAPATO CREEK HABITAT PROJECT PHASE II PLANTING, IRRIGATION, AND FENCING IRRIGATION DETAILS				APPROVED:		95% CD		SiteWorkshop LANDSCAPE ARCHITECTURE 3800 Woodland Park Ave N Suite 200 Seattle, Washington 98103 206.285.3026 206.285.3629 fax		 Port of Tacoma P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841	
CONTIGNS:	071490	TOWNSHIP:	20N	RANGE:	3E	SECTION:	1	CHECKED BY:	DATE	MARK:	REVISION:	BY:	DATE:
M. ID:	101449.01	DAT-HRZ:	WA83-SF	VERT:	MLLW (PORT OF TACOMA TIDAL)	PRINTED BY:	Aveeo May 24, 2022	DJE	02-25-2022				
PHASE:		PARCEL:	14	DRAWING SCALE: AS NOTED		PORT ADDRESS: 1 SITCOM PLAZA TACOMA, WA 98421							

CONTRACTOR STAGING

SMOOTH WIRE FENCE - 4006 LF

LIMIT OF CONSTRUCTION

EXISTING TREE

CONTOUR 13.5

PLANTING ZONES

UPLAND ZONE

UPLAND MODIFIED ZONE

UPLAND ENHANCEMENT ZONE

TRANSITIONAL ZONE

WETLAND PALUSTRINE FORESTED ZONE

WETLAND EMERGENT ZONE

NO TREES IN THIS AREA

6657 LP5.00 5	LOWER WAPATO CREEK HABITAT PROJECT PHASE II PLANTING, IRRIGATION, AND FENCING				APPROVED:		95% CD		SiteWorkshop LANDSCAPE ARCHITECTURE 3800 Woodland Park Ave N Suite 200 Seattle, Washington 98103 206.285.3026 206.285.3629 fax		Port of Tacoma P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841	
	TOWNSHIP: 20N		RANGE: 3E		SECTION: 1		MARK:		REVISION:		BY:	
	DAT-HRZ: WA83-SF		VERT: MLLW (PORT OF TACOMA TIDAL)		DRAWING SCALE: AS NOTED		PROJECT:		DATE:		DATE:	
	PARCEL: 14		FULL SITE PLANTING PLAN		TACOMA, WA 98421		DIRECTOR ENG. DATE		PROJ. ENGR DATE		CHECKED BY DATE	

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PORT OF TACOMA FILE: P:\1491.2 LWCHP Phase II\3_Design\4_Cad\Sheets\95% CD\5.1X LWCHP ENLARGEMENT LAYOUTS

BINDING EDGE

CONTRACTOR STAGING

SMOOTH WIRE FENCE - 4006 LF

LIMIT OF CONSTRUCTION

EXISTING TREE

CONTOUR 13.5

PLANTING ZONES

UPLAND ZONE

UPLAND MODIFIED ZONE

UPLAND ENHANCEMENT ZONE

TRANSITIONAL ZONE

WETLAND PALUSTRINE FORESTED ZONE

WETLAND EMERGENT ZONE

KEY PLAN

ZONE A PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT
	AM	25	ACER MACROPHYLLUM	BIG LEAF MAPLE	BARE ROOT
	AR	84	ALNUS RUBRA	RED ALDER	BARE ROOT
	FL	25	FRAXINUS LATIFOLIA	OREGON ASH	BARE ROOT
	MP	67	MALUS FUSCA	OREGON CRAB APPLE	BARE ROOT
	PS	15	PICEA SITCHENSIS	SITKA SPRUCE	BARE ROOT
	PC1	91	PINUS CONTORTA	SHORE PINE	BARE ROOT
	PB	26	POPULUS BALSAMIFERA TRICHOCARPA	BLACK COTTONWOOD	BARE ROOT
	PD	131	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	BARE ROOT
	SL	66	SALIX LUCIDA	PACIFIC WILLOW	TWO (2) 3/4" - 1 1/2" DIA., 36" MIN. LENGTH
	SS2	172	SALIX SCOULERIANA	SCOULER'S WILLOW	TWO (2) 3/4" - 1 1/2" DIA., 36" MIN. LENGTH
	TP	32	THUJA PLICATA	WESTERN RED CEDAR	BARE ROOT

6657

LP5.10

6

CONTRICONS: 071490

M. ID: 101449.01

PHASE:

TOWNSHIP: 20N

DAT-HRZ: WA83-SF

PARCEL: 14

RANGE: 3E

VERT: MLLW (PORT OF TACOMA TIDAL)

DRAWING SCALE: AS NOTED

SECTION: 1

DATE: MAY 24, 2022

PARCEL: 14

APPROVED:

CHECKED BY: DJE

DIRECTOR ENG. DATE: Aveeo May 24, 2022

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BY:

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LANDSCAPE ARCHITECTURE

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Seattle, Washington 98103

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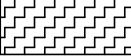
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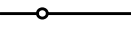
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Port of Tacoma

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 CONTRACTOR STAGING

 SMOOTH WIRE FENCE - 4006 LF

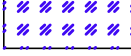
 LIMIT OF CONSTRUCTION

 EXISTING TREE

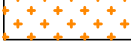
 CONTOUR 13.5

PLANTING ZONES

 UPLAND ZONE

 UPLAND MODIFIED ZONE

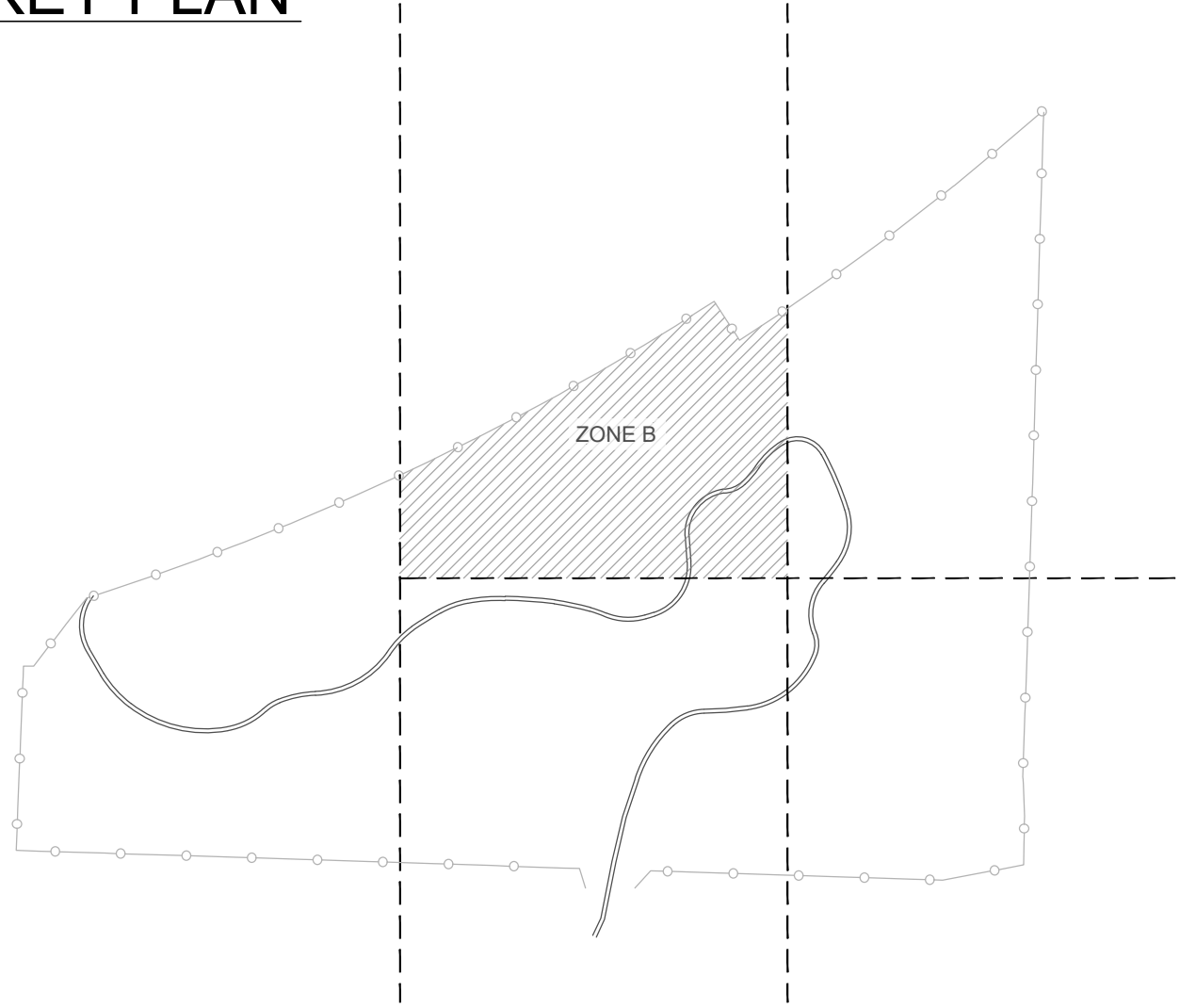
 UPLAND ENHANCEMENT ZONE

 TRANSITIONAL ZONE

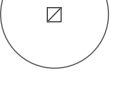
 WETLAND PALUSTRINE FORESTED ZONE

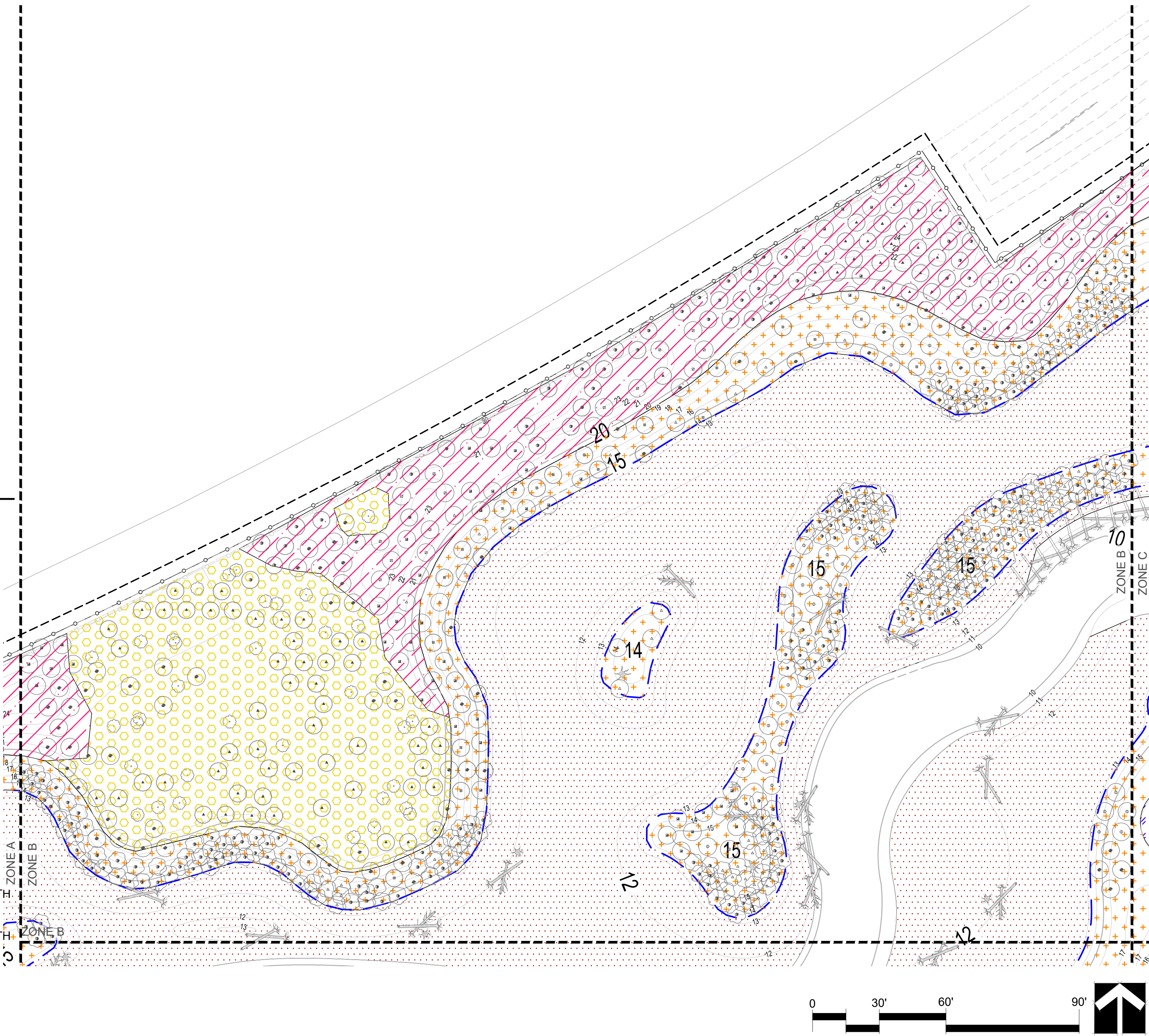
 WETLAND EMERGENT ZONE

KEY PLAN



ZONE B PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT
	AM	15	ACER MACROPHYLLUM	BIG LEAF MAPLE	BARE ROOT
	AR	67	ALNUS RUBRA	RED ALDER	BARE ROOT
	FL	33	FRAXINUS LATIFOLIA	OREGON ASH	BARE ROOT
	MP	59	MALUS FUSCA	OREGON CRAB APPLE	BARE ROOT
	PS	19	PICEA SITCHENSIS	SITKA SPRUCE	BARE ROOT
	PC1	43	PINUS CONTORTA	SHORE PINE	BARE ROOT
	PB	14	POPULUS BALSAMIFERA TRICHOCARPA	BLACK COTTONWOOD	BARE ROOT
	PD	86	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	BARE ROOT
	SL	87	SALIX LUCIDA	PACIFIC WILLOW	TWO (2) 3/4" - 1 1/2" DIA., 36" MIN. LENGTH
	SS2	227	SALIX SCOULERIANA	SCOULER'S WILLOW	TWO (2) 3/4" - 1 1/2" DIA., 36" MIN. LENGTH
	TP	12	THUJA PLICATA	WESTERN RED CEDAR	BARE ROOT



6657

LP5.11

7

CONT/CONS: 071490

M. ID: 101449.01

PHASE:

LOWER WAPATO CREEK

HABITAT PROJECT PHASE II

PLANTING, IRRIGATION, AND FENCING

ZONE B ENLARGEMENT

TOWNSHIP: 20N

DAT-HRZ: WA83-SF

PARCEL: 14

RANGE: 3E

VERT: MLLW (PORT OF TACOMA TIDAL)

DRAWING SCALE: AS NOTED

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LANDSCAPE ARCHITECTURE

3800 Woodland Park Ave N Suite 200

Seattle, Washington 98103

206.285.3026

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CONTRACTOR STAGING

SMOOTH WIRE FENCE - 4006 LF

LIMIT OF CONSTRUCTION

EXISTING TREE

CONTOUR 13.5

PLANTING ZONES

UPLAND ZONE

UPLAND MODIFIED ZONE

UPLAND ENHANCEMENT ZONE

TRANSITIONAL ZONE

WETLAND PALUSTRINE FORESTED ZONE

WETLAND EMERGENT ZONE

KEY PLAN

ZONE C PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT
	AM	28	ACER MACROPHYLLUM	BIG LEAF MAPLE	BARE ROOT
	AR	113	ALNUS RUBRA	RED ALDER	BARE ROOT
	FL	42	FRAXINUS LATIFOLIA	OREGON ASH	BARE ROOT
	MP	116	MALUS FUSCA	OREGON CRAB APPLE	BARE ROOT
	PS	75	PICEA SITCHENSIS	SITKA SPRUCE	BARE ROOT
	PC1	71	PINUS CONTORTA	SHORE PINE	BARE ROOT
	PB	28	POPULUS BALSAMIFERA TRICHOCARPA	BLACK COTTONWOOD	BARE ROOT
	PD	101	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	BARE ROOT
	SL	221	SALIX LUCIDA	PACIFIC WILLOW	TWO (2) 3/4" - 1 1/2" DIA., 36" MIN. LENGTH
	SS2	332	SALIX SCOULERIANA	SCOULER'S WILLOW	TWO (2) 3/4" - 1 1/2" DIA., 36" MIN. LENGTH
	TP	45	THUJA PLICATA	WESTERN RED CEDAR	BARE ROOT

6657

LP5.12

8

CONTRICONS: 071490

M. ID: 101449.01

PHASE:

LOWER WAPATO CREEK

HABITAT PROJECT PHASE II

PLANTING, IRRIGATION, AND FENCING

ZONE C ENLARGEMENT

TOWNSHIP: 20N

DAT-HRZ: WA93-SF

PARCEL: 14

RANGE: 3E

VERT: MLLW (PORT OF TACOMA TIDAL)

DRAWING SCALE: AS NOTED

SECTION: 1

PRINTED BY: Aveeo May 24, 2022

TACOMA, WA 98421

DIRECTOR ENG. DATE

PROJ. ENGR DATE

02-25-2022

APPROVED:

CHECKED BY DATE

DJE 02-25-2022

95% CD

MARK:

REVISION:

BY:

DATE:

APPR:

DATE:

Port of Tacoma

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CONTRACTOR STAGING

SMOOTH WIRE FENCE - 4006 LF

LIMIT OF CONSTRUCTION

EXISTING TREE

CONTOUR 13.5

PLANTING ZONES

UPLAND ZONE

UPLAND MODIFIED ZONE

UPLAND ENHANCEMENT ZONE

TRANSITIONAL ZONE

WETLAND PALUSTRINE FORESTED ZONE

WETLAND EMERGENT ZONE

KEY PLAN

ZONE D PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT
	AM	30	ACER MACROPHYLLUM	BIG LEAF MAPLE	BARE ROOT
	AR	122	ALNUS RUBRA	RED ALDER	BARE ROOT
	FL	57	FRAXINUS LATIFOLIA	OREGON ASH	BARE ROOT
	MP	108	MALUS FUSCA	OREGON CRAB APPLE	BARE ROOT
	PS	31	PICEA SITCHENSIS	SITKA SPRUCE	BARE ROOT
	PC1	116	PINUS CONTORTA	SHORE PINE	BARE ROOT
	PB	34	POPULUS BALSAMIFERA TRICHOCARPA	BLACK COTTONWOOD	BARE ROOT
	PD	162	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	BARE ROOT
	SL	134	SALIX LUCIDA	PACIFIC WILLOW	TWO (2) 3/4" - 1 1/2" DIA., 36" MIN. LENGTH
	SS2	360	SALIX SCOULERIANA	SCOULER'S WILLOW	TWO (2) 3/4" - 1 1/2" DIA., 36" MIN. LENGTH

6657

LP5.13

9

CONTCONS: 071490

M. ID: 101449.01

PHASE:

LOWER WAPATO CREEK

HABITAT PROJECT PHASE II

PLANTING, IRRIGATION, AND FENCING

ZONE D ENLARGEMENT

TOWNSHIP: 20N

RANGE: 3E

DAT-HRZ: WA93-SF

PARCEL: 14

SECTION: 1

VERT: MLLW (PORT OF TACOMA TIDAL)

DRAWING SCALE: AS NOTED

APPROVED:

CHECKED BY: DJE

DATE: 02-25-2022

DIRECTOR ENG. DATE: Aveeo May 24, 2022

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CONTRACTOR STAGING

SMOOTH WIRE FENCE - 4006 LF

LIMIT OF CONSTRUCTION

EXISTING TREE

CONTOUR 13.5

PLANTING ZONES

UPLAND ZONE

UPLAND MODIFIED ZONE

UPLAND ENHANCEMENT ZONE

TRANSITIONAL ZONE

WETLAND PALUSTRINE FORESTED ZONE

WETLAND EMERGENT ZONE

KEY PLAN

ZONE E PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT
	AM	21	ACER MACROPHYLLUM	BIG LEAF MAPLE	BARE ROOT
	AR	70	ALNUS RUBRA	RED ALDER	BARE ROOT
	FL	52	FRAXINUS LATIFOLIA	OREGON ASH	BARE ROOT
	MP	74	MALUS FUSCA	OREGON CRAB APPLE	BARE ROOT
	PS	52	PICEA SITCHENSIS	SITKA SPRUCE	BARE ROOT
	PC1	43	PINUS CONTORTA	SHORE PINE	BARE ROOT
	PB	15	POPULUS BALSAMIFERA TRICHOCARPA	BLACK COTTONWOOD	BARE ROOT
	PD	67	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	BARE ROOT
	SL	103	SALIX LUCIDA	PACIFIC WILLOW	TWO (2) 3/4" - 1 1/2" DIA., 36" MIN. LENGTH
	SS2	328	SALIX SCOULERIANA	SCOULER'S WILLOW	TWO (2) 3/4" - 1 1/2" DIA., 36" MIN. LENGTH
	TP	60	THUJA PLICATA	WESTERN RED CEDAR	BARE ROOT

6657

LP5.14

10

CONT/CONS: 071490

M. ID: 101449.01

PHASE:

LOWER WAPATO CREEK

HABITAT PROJECT PHASE II

PLANTING, IRRIGATION, AND FENCING

ZONE E ENLARGEMENT

APPROVED:

CHECKED BY: DJE

DATE: 02-25-2022

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PRINTED BY: 1 SITCOM PLAZA

PORT ADDRESS: TACOMA, WA 98421

TOWNSHIP: 20N

RANGE: 3E

SECTION: 1

DAT-HRZ: WA83-SF

VERT: MLLW (PORT OF TACOMA TIDAL)

PARCEL: 14

DRAWING SCALE: AS NOTED

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Seattle, Washington 98103

206.285.3026

206.285.3629 fax

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BY:

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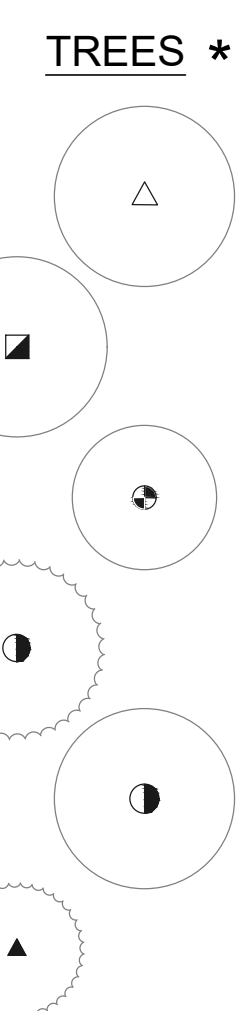
Port of Tacoma

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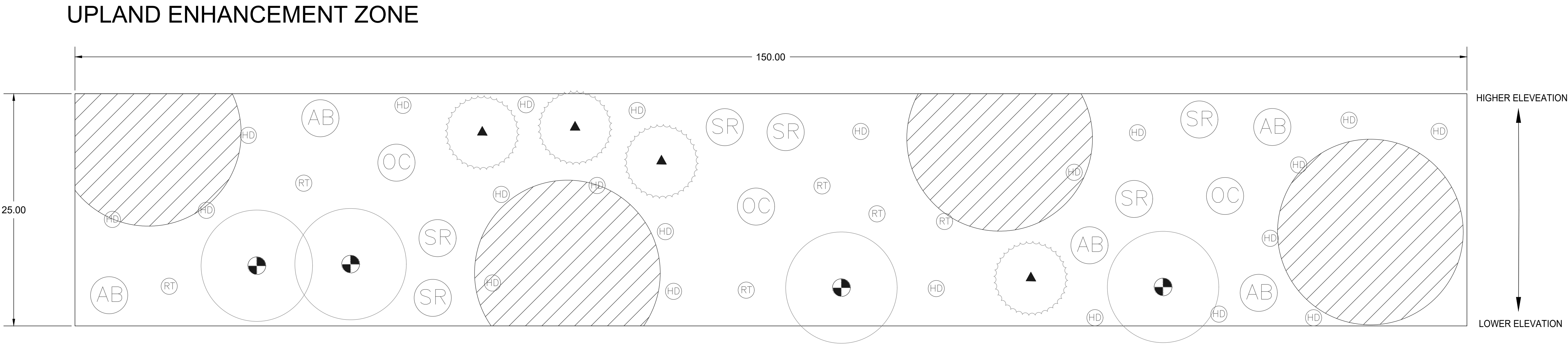
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The map shows a rectangular area with a width of 150.00' and a height of 25.00'. The area is divided into several large, irregularly shaped regions, each containing a different type of vegetation. The vegetation types are represented by different symbols and labels: RG (Round Green), SA (Small Green), RT (Round Tree), MA (Medium Green), RP (Round Plant), CW (Circular Water), OC (Oval Green), AB (Angular Green), SR (Small Round), RN (Round Net), and RD (Round Dotted). The map also includes a scale bar at the bottom right, indicating distances from 0' to 24'. An elevation indicator on the right side shows a vertical arrow pointing upwards, labeled 'HIGHER ELEVATION' at the top and 'LOWER ELEVATION' at the bottom.

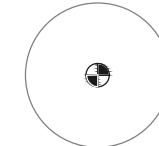
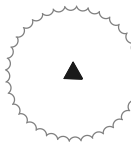
*TREE SYMBOLS SHOWN FOR SHRUB RELATIONSHIP ONLY. REFER TO ENLARGEMENT PLANS FOR TREE PLACEMENT.

TREES *	CODE	BOTANICAL NAME	COMMON NAME	CONT	SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT
	AM	ACER MACROPHYLLUM	BIG LEAF MAPLE	BARE ROOT		AB	8	ACER CIRCINATUM	VINE MAPLE	BARE ROOT
	AR	ALNUS RUBRA	RED ALDER	BARE ROOT		CW	7	CORYLUS CORNUTA	WESTERN HAZELNUT	BARE ROOT
	MP2	MALUS FUSCA	OREGON CRAB APPLE	BARE ROOT		MA	52	MAHONIA AQUIFOLIUM	OREGON GRAPE	BARE ROOT
	PC1	PINUS CONTORTA	SHORE PINE	BARE ROOT		OC	5	OEMLERIA CERASIFORMIS	OSOBERRY	BARE ROOT
	PB	POPULUS BALSAMIFERA TRICHOCARPA	BLACK COTTONWOOD	BARE ROOT		RD	2	RIBES DIVARICATUM	SPREADING GOOSEBERRY	BARE ROOT
	PD	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	BARE ROOT		RG	25	ROSA GYMNOCARPA	BALDHIP ROSE	BARE ROOT
						RN	17	ROSA NUTKANA	NOOTKA ROSE	BARE ROOT
						RP	22	ROSA PISOCARPA	PEA FRUIT ROSE	BARE ROOT
						RT	42	RUBUS PARVIFLORUS	THIMBLEBERRY	BARE ROOT
						SR	9	SAMBUCUS RACEMOSA	RED ELDERBERRY	BARE ROOT
					SA	50	SYMPHORICARPOS ALBUS	SNOWBERRY	BARE ROOT	

*TREE SYMBOLS SHOWN FOR SHRUB RELATIONSHIP ONLY. REFER TO ENLARGEMENT PLANS FOR TREE PLACEMENT.



PLANT SCHEDULE

TREES *	CODE	BOTANICAL NAME	COMMON NAME	CONT	
	MP2	MALUS FUSCA	OREGON CRAB APPLE	BARE ROOT	
	PD	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	BARE ROOT	
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT
	AB	5	ACER CIRCINATUM	VINE MAPLE	BARE ROOT
	HD	22	HOLODISCUS DISCOLOR	OCEAN-SPRAY	BARE ROOT
	OC	3	OEMLERIA CERASIFORMIS	OSOBERRY	BARE ROOT
	RT	6	RUBUS PARVIFLORUS	THIMBLEBERRY	BARE ROOT
	SR	6	SAMBUCUS RACEMOSA	RED ELDERBERRY	BARE ROOT

*TREE SYMBOLS SHOWN FOR SHRUB RELATIONSHIP ONLY. REFER TO ENLARGEMENT PLANS FOR TREE PLACEMENT.

6657

LP5.21

12

CONT/CONS: 071490

IM ID: 101449.01

PHASE:

LOWER WAPATO CREEK

HABITAT PROJECT PHASE II

PLANTING, IRRIGATION, AND FENCING

UPLAND ENHANCEMENT ZONE PROTOTYPICAL PLANT LAYOUT

TOWNSHIP: 20N

DAT-HRZ: WA83-SF

PARCEL: 14

APPROVED:

CHECKED BY: DJE

DATE: 02-25-2022

DIRECTOR ENG. DATE: Aveeo May 24, 2022

PRINTED BY: 1 SITCOM PLAZA

PORT ADDRESS: TACOMA, WA 98421

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Seattle, Washington 98103

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206.285.3629 fax

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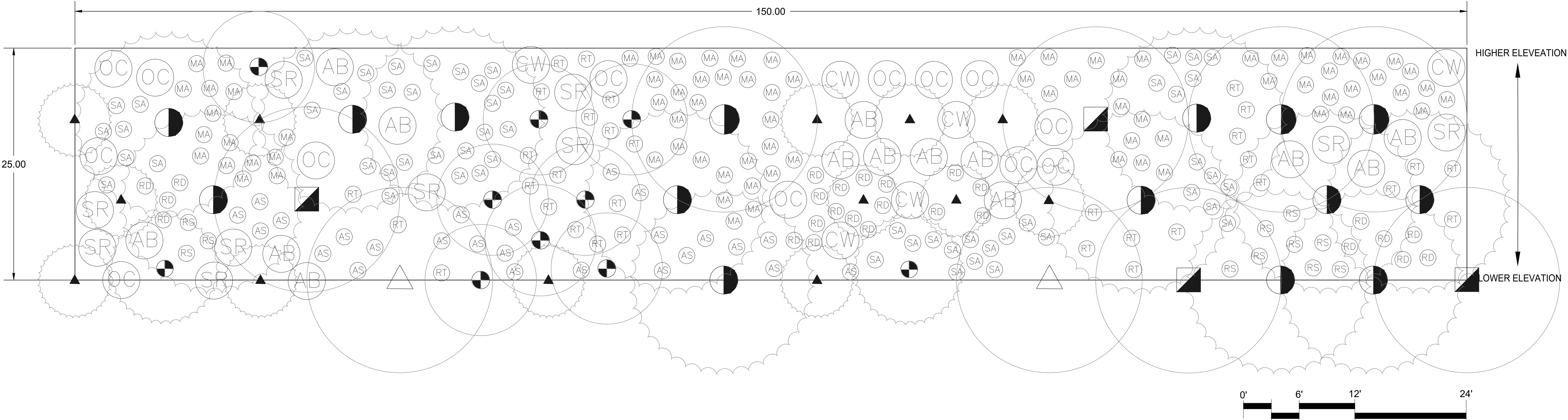
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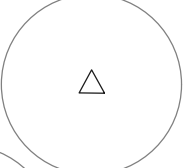
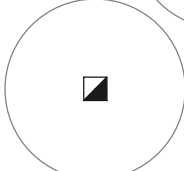
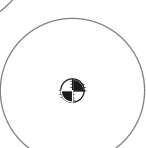
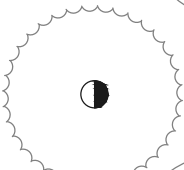
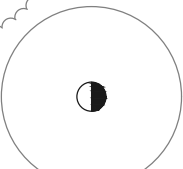
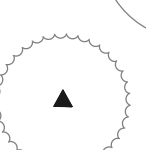
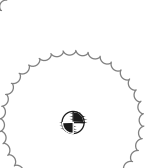
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UPLAND MODIFIED ZONE



PLANT SCHEDULE

TREES *			CODE	BOTANICAL NAME	COMMON NAME	CONT	SHRUBS			CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT
	AM	ACER MACROPHYLLUM			BIG LEAF MAPLE	BARE ROOT		AB	14	ACER CIRCINATUM		VINE MAPLE		BARE ROOT
	AR	ALNUS RUBRA			RED ALDER	BARE ROOT		AS	25	AMELANCHIER ALNIFOLIA		SERVICEBERRY		BARE ROOT
	MP2	MALUS FUSCA			OREGON CRAB APPLE	BARE ROOT		CW	6	CORYLUS CORNUTA		WESTERN HAZELNUT		BARE ROOT
	PC1	PINUS CONTORTA			SHORE PINE	BARE ROOT		MA	78	MAHONIA AQUIFOLIUM		OREGON GRAPE		BARE ROOT
	PB	POPULUS BALSAMIFERA TRICHOCARPA			BLACK COTTONWOOD	BARE ROOT		OC	13	OEMLERIA CERASIFORMIS		OSOBERRY		BARE ROOT
	PD	PSEUDOTSUGA MENZIESII			DOUGLAS FIR	BARE ROOT		RD	26	RIBES DIVARICATUM		SPREADING GOOSEBERRY		BARE ROOT
	TP	THUJA PLICATA			WESTERN RED CEDAR	BARE ROOT		RT	32	RUBUS PARVIFLORUS		THIMBLEBERRY		BARE ROOT
								RS	11	RUBUS SPECTABILIS		SALMONBERRY		BARE ROOT
								SR	10	SAMBUCUS RACEMOSA		RED ELDERBERRY		BARE ROOT
								SA	56	SYMPHORICARPOS ALBUS		SNOWBERRY		BARE ROOT

6657

LP5.22

13

CON/CONS: 071490

M. ID: 101449.01

PHASE:

TOWNSHIP: 20N

DAT-HRZ: WA83-SF

PARCEL: 14

RANGE: 3E

VERT: MLLW (PORT OF TACOMA TIDAL)

DRAWING SCALE: AS NOTED

SECTION: 1

PRINTED BY: Aveeo May 24, 2022

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CHECKED BY: DJE

DATE: 02-25-2022

APPROVED:

DIRECTOR ENGR. DATE: Aveeo May 24, 2022

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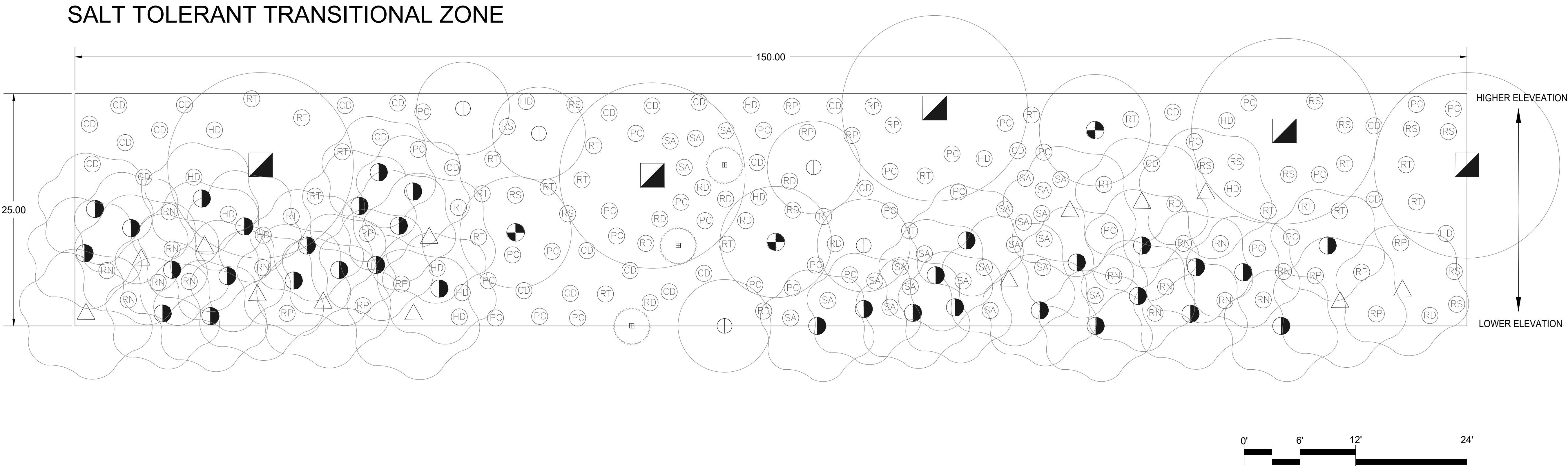
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PLANT SCHEDULE

TREES *	CODE	BOTANICAL NAME	COMMON NAME	CONT	SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT
	AR	ALNUS RUBRA	RED ALDER	BARE ROOT		CD	28	CRATAEGUS DOUGLASII	DOUGLAS HAWTHORN	BARE ROOT
	FL	FRAXINUS LATIFOLIA	OREGON ASH	BARE ROOT		HD	14	HOLODISCUS DISCOLOR	OCEAN-SPRAY	BARE ROOT
	MP2	MALUS FUSCA	OREGON CRAB APPLE	BARE ROOT		PC	32	PHYSOCARPUS CAPITATUS	PACIFIC NINEBARK	BARE ROOT
	PS	PICEA SITCHENSIS	SITKA SPRUCE	BARE ROOT		RD	12	RIBES DIVARICATUM	SPREADING GOOSEBERRY	BARE ROOT
	SL	SALIX LUCIDA	PACIFIC WILLOW	TWO (2) 3/4" - 1 1/2" DIA., 36" MIN. LENGTH		RN	15	ROSA NUTKANA	NOOTKA ROSE	BARE ROOT
	SS2	SALIX SCOULERIANA	SCOULER'S WILLOW	TWO (2) 3/4" - 1 1/2" DIA., 36" MIN. LENGTH		RP	13	ROSA PISOCARPA	PEA FRUIT ROSE	BARE ROOT
						RT	26	RUBUS PARVIFLORUS	THIMBLEBERRY	BARE ROOT
						RS	13	RUBUS SPECTABILIS	SALMONBERRY	BARE ROOT
						SA	24	SYMPHORICARPOS ALBUS	SNOWBERRY	BARE ROOT

*TREE SYMBOLS SHOWN FOR SHRUB RELATIONSHIP ONLY. REFER TO ENLARGEMENT PLANS FOR TREE PLACEMENT.

6657

LP5.23

14

CONT/CONS: 071490
M. ID: 101449.01
PHASE:

LOWER WAPATO CREEK
HABITAT PROJECT PHASE II
PLANTING, IRRIGATION, AND FENCING
TRANSITIONAL ZONE PROTOTYPICAL PLANT LAYOUT

TOWNSHIP: 20N
DAT-HRZ: WA83-SF
PARCEL: 14

RANGE: 3E
VERT: MLLW (PORT OF TACOMA TIDAL)

SECTION: 1
DRAWING SCALE: AS NOTED

APPROVED:

CHECKED BY: DATE
DJE 02-25-2022

PROJ. ENGR DATE
Aveeo May 24, 2022

DIRECTOR ENG. DATE
Aveeo May 24, 2022

PRINTED BY: Aveeo May 24, 2022

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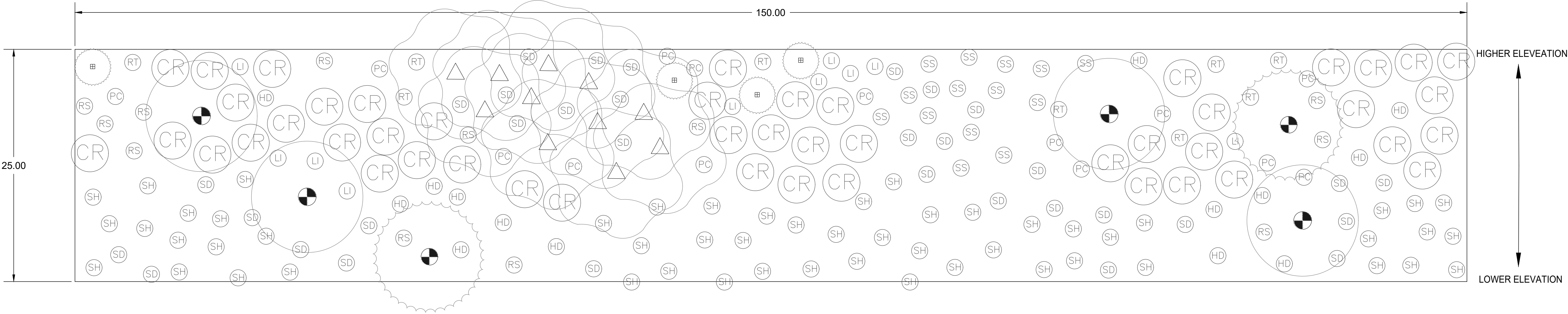
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BINDING EDGE

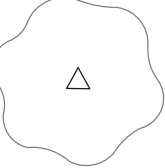
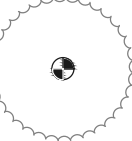
PORT OF TACOMA FILE: P:\1491.2 LWCHP Phase II\3_Design\4_CadSheets\95% CD\L5.2X Prototypical Layouts and Plant Schedule

SALT TOLERANT WETLAND PALSUTRINE ZONE



ROOT

PLANT SCHEDULE

TREES *	CODE	BOTANICAL NAME	COMMON NAME	CONT	SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT
	MP2	MALUS FUSCA	OREGON CRAB APPLE	BARE ROOT		CR	47	CORNUS SERICEA	RED TWIG DOGWOOD	BARE ROOT
	PS	PICEA SITCHENSIS	SITKA SPRUCE	BARE ROOT		HD	14	HOLODISCUS DISCOLOR	OCEAN-SPRAY	BARE ROOT
	SL	SALIX LUCIDA	PACIFIC WILLOW	TWO (2) 3/4" - 1 1/2" DIA., 36" MIN. LENGTH		LI	10	LONICERA INVOLUCRATA	TWINBERRY	BARE ROOT
	TP	THUJA PLICATA	WESTERN RED CEDAR	BARE ROOT		PC	14	PHYSOCARPUS CAPITATUS	PACIFIC NINEBARK	BARE ROOT
						RT	9	RUBUS PARVIFLORUS	THIMBLEBERRY	BARE ROOT
						RS	12	RUBUS SPECTABILIS	SALMONBERRY	BARE ROOT
						SH	54	SALIX HOOKERIANA	DUNE WILLOW	TWO (2) 3/4" - 1 1/2" DIA., 36" MIN LENGTH
						SS	14	SALIX SITCHENSIS	SITKA WILLOW	TWO (2) 3/4" - 1 1/2" DIA., 36" MIN LENGTH
						SD	33	SPIRAEA DOUGLASII	WESTERN SPIREA	BARE ROOT

*TREE SYMBOLS SHOWN FOR SHRUB RELATIONSHIP ONLY. REFER TO ENLARGEMENT PLANS FOR TREE PLACEMENT.

6657

LP5.24

15

CONT/CONS: 071490

IM ID: 101449.01

PHASE:

LOWER WAPATO CREEK

HABITAT PROJECT PHASE II

PLANTING, IRRIGATION, AND FENCING

SALT TOLERANT WETLAND PALSTRINE FORESTED ZONE

PROTOTYPICAL PLANT LAYOUT

TOWNSHIP: 20N

RANGE: 3E

DAT-HRZ: WA83-SF

PARCEL: 14

SECTION: 1

VERT: MLLW (PORT OF TACOMA TIDAL)

DRAWING SCALE: AS NOTED

APPROVED:

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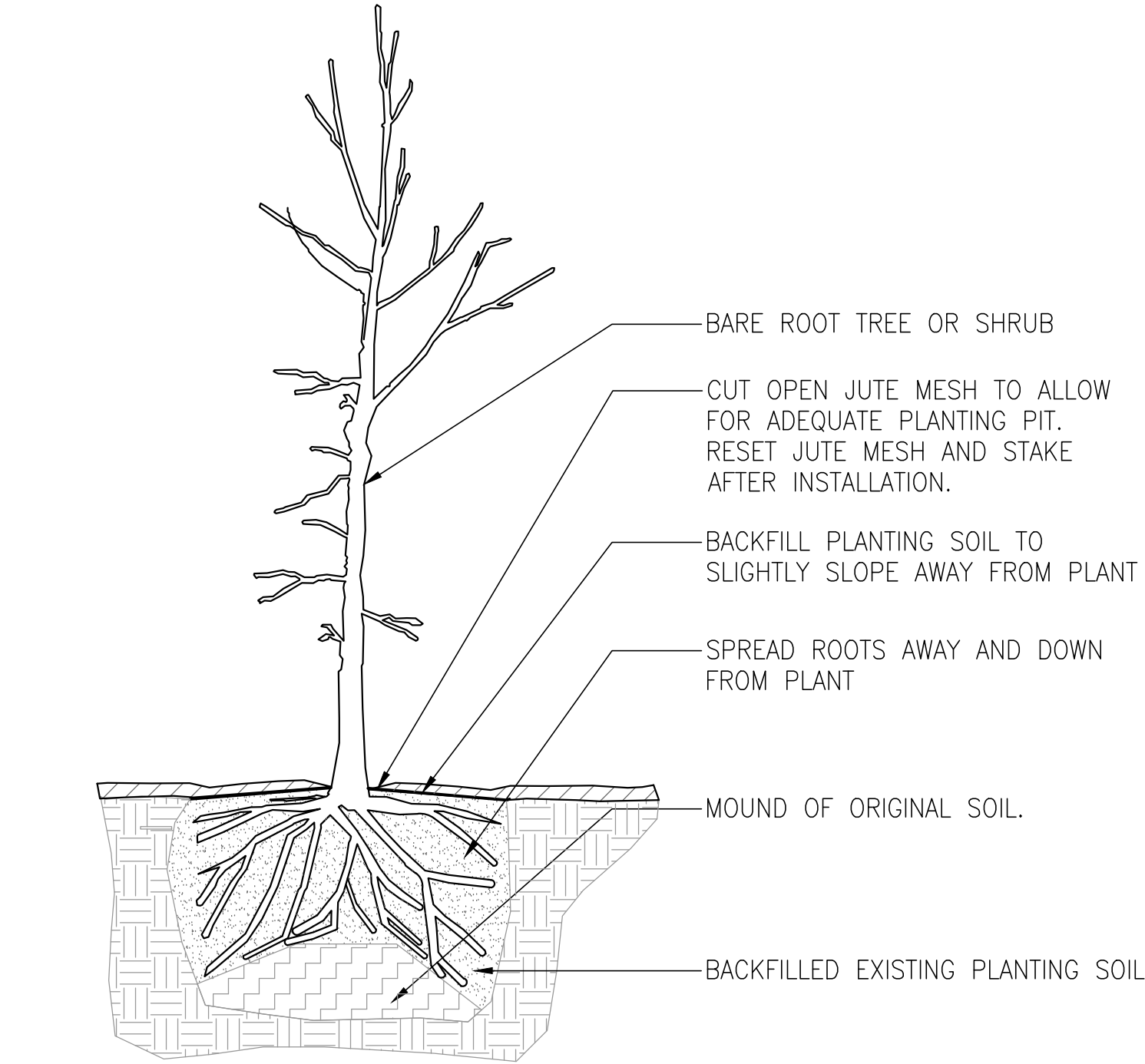
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DATE:

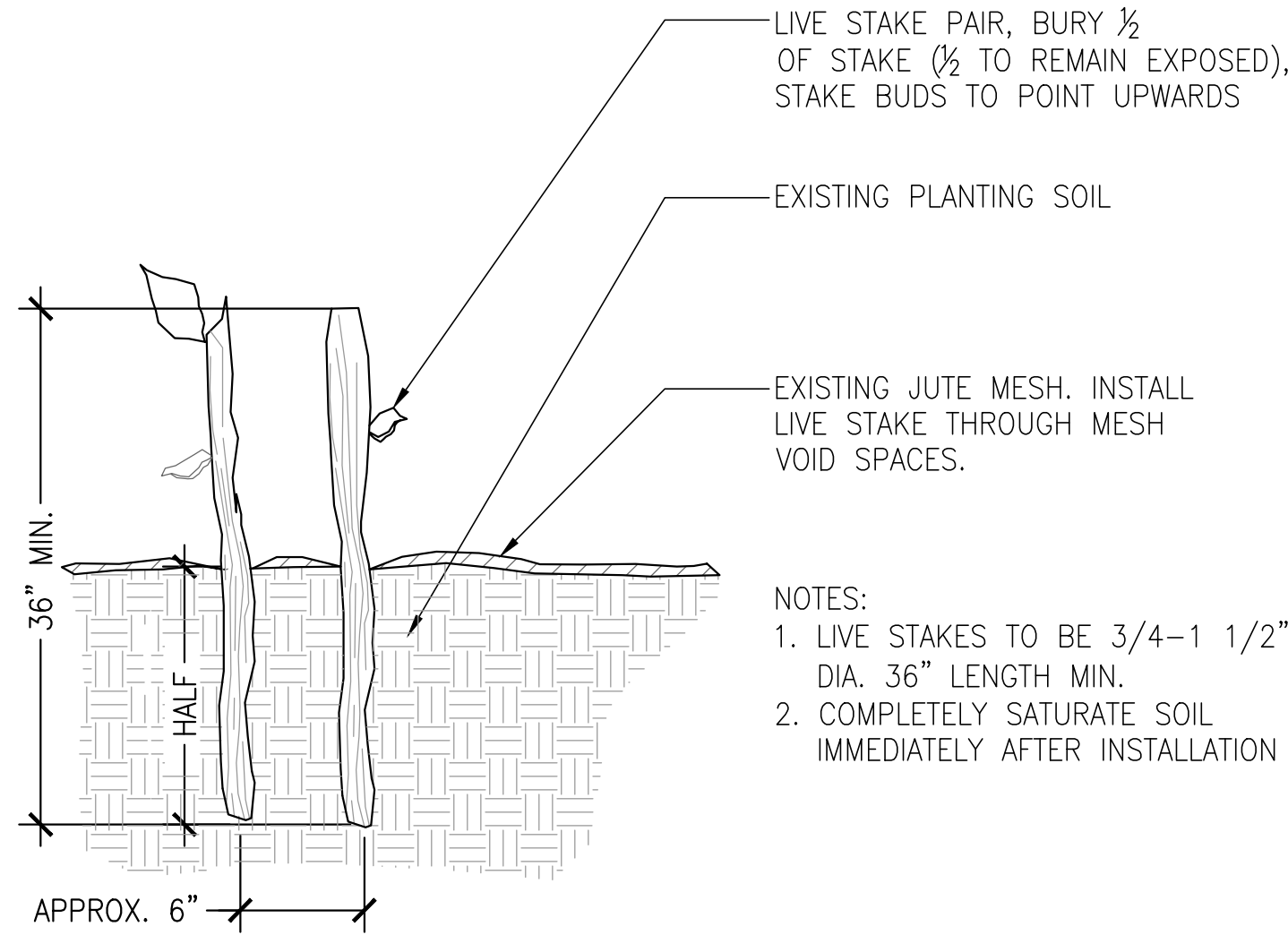
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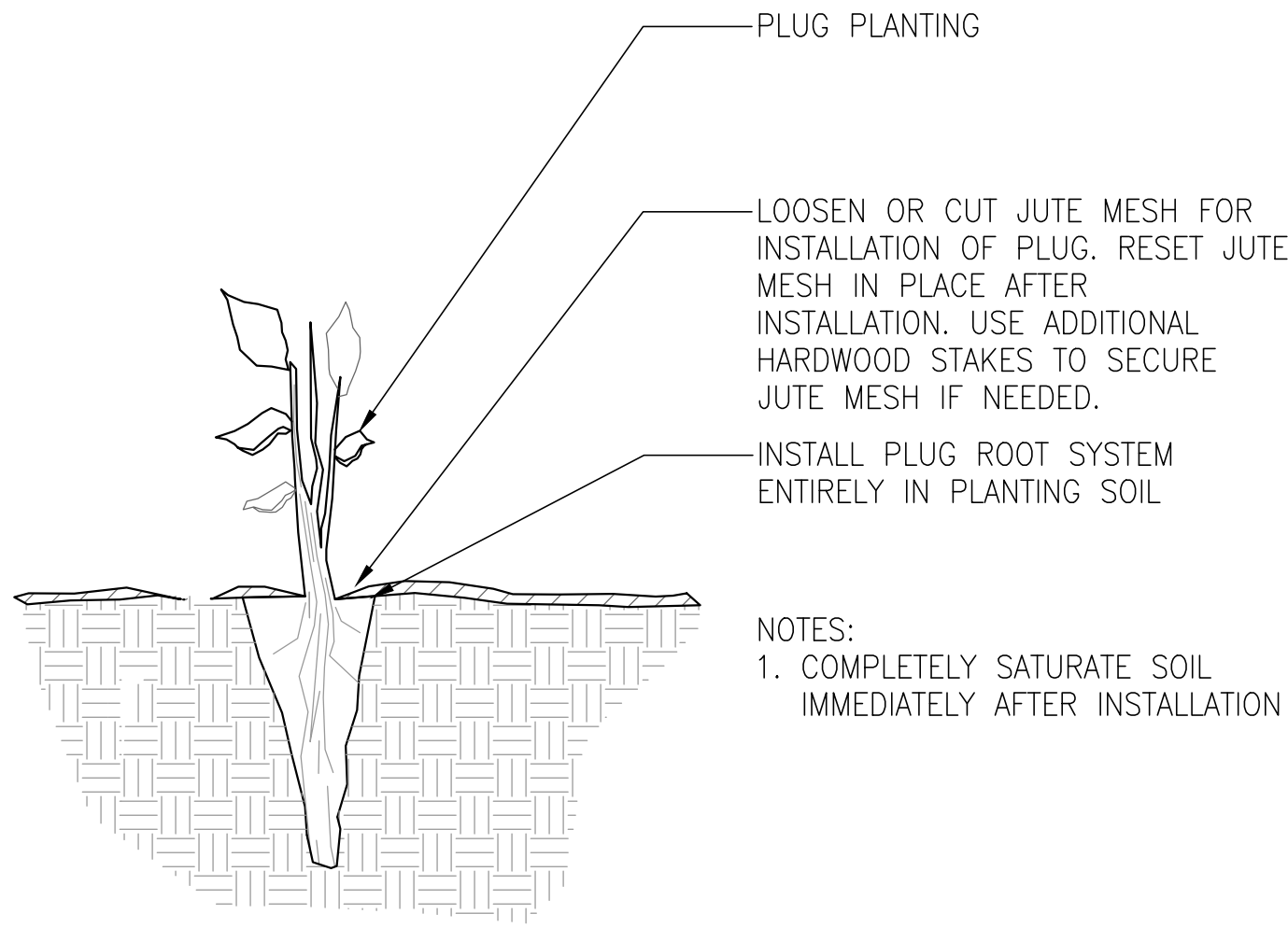
1 BARE ROOT PLANTING
N.T.S.



NOTES:
1. LIVE STAKES TO BE 3/4-1 1/2" DIA. 36" LENGTH MIN.
2. COMPLETELY SATURATE SOIL IMMEDIATELY AFTER INSTALLATION

2 LIVE STAKE PLANTING
N.T.S.

WP-LIVE STAKE

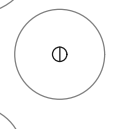
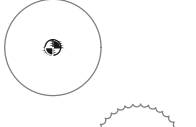
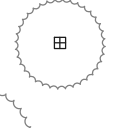
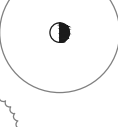
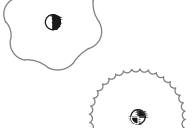
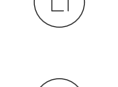
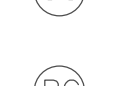
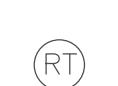


NOTES:
1. COMPLETELY SATURATE SOIL IMMEDIATELY AFTER INSTALLATION

3 PLUG PLANTING
N.T.S.

6657 LP5.30 16			LOWER WAPATO CREEK HABITAT PROJECT PHASE II PLANTING, IRRIGATION, AND FENCING PLANTING DETAILS					APPROVED:		95% CD		SiteWorkshop LANDSCAPE ARCHITECTURE 3800 Woodland Park Ave N Suite 200 Seattle, Washington 98103 206.285.3026 206.285.3629 fax			 Port of Tacoma P.O. BOX 1837 TACOMA, WA 98401 (253)383-1584						
CONT/CONS: 071490		TOWNSHIP: 20N		RANGE: 3E		SECTION: 1		DIRECTOR ENG.		DATE		MARK:		REVISION:		BY:		APPR:		DATE:	
M. ID: 101449.01		DAT-HRZ: WA83-SF		VERT: MLLW (PORT OF TACOMA TIDAL)		PRINTED BY: Aveeo		PROJ. ENGR		May 24, 2022											
PHASE:		PARCEL: 14		DRAWING SCALE: AS NOTED		PORT ADDRESS: 1 SITCOM PLAZA															
						TACOMA, WA 98421															

PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	ZONES
	AM	200	ACER MACROPHYLLUM	BIG LEAF MAPLE	BARE ROOT	U, UM, T
	AR	500	ALNUS RUBRA	RED ALDER	BARE ROOT	U, UM, T
	FL	300	FRAXINUS LATIFOLIA	OREGON ASH	BARE ROOT	T
	MP2	500	MALUS FUSCA	OREGON CRAB APPLE	BARE ROOT	U, UE, UM, T, W
	PS	300	PICEA SITCHENSIS	SITKA SPRUCE	BARE ROOT	T, W
	PC1	400	PINUS CONTORTA	SHORE PINE	BARE ROOT	U, UM
	PB	200	POPULUS BALSAMIFERA TRICHOCARPA	BLACK COTTONWOOD	BARE ROOT	U, UM
	PD	600	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	BARE ROOT	U, UE, UM
	SL	*1400	SALIX LUCIDA	PACIFIC WILLOW	TWO (2) 3/4" - 1 1/2" DIA., 36" MIN. LENGTH	T, W
	SS2	*3000	SALIX SCOULERIANA	SCOULER'S WILLOW	TWO (2) 3/4" - 1 1/2" DIA., 36" MIN. LENGTH	T, W
	TP	200	THUJA PLICATA	WESTERN RED CEDAR	BARE ROOT	U, UM, T, W
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	
	AB	500	ACER CIRCINATUM	VINE MAPLE	BARE ROOT	U, UE, UM
	AS	200	AMELANCHIER ALNIFOLIA	SERVICEBERRY	BARE ROOT	UM
	CR	900	CORNUS SERICEA	RED TWIG DOGWOOD	BARE ROOT	W
	CW	300	CORYLUS CORNUTA	WESTERN HAZELNUT	BARE ROOT	U, UM
	CD	1300	CRATAEGUS DOUGLASII	DOUGLAS HAWTHORN	BARE ROOT	T
	HD	900	HOLODISCUS DISCOLOR	OCEAN-SPRAY	BARE ROOT	T, W
	LI	400	LONICERA INVOLUCRATA	TWINBERRY	BARE ROOT	W
	MA	2500	MAHONIA AQUIFOLIUM	OREGON GRAPE	BARE ROOT	U, UM
	OC	400	OEMLERIA CERASIFORMIS	OSOBERRY	BARE ROOT	U, UE, UM
	PC	1800	PHYSOCARPUS CAPITATUS	PACIFIC NINEBARK	BARE ROOT	T, W
	RD	900	RIBES DIVARICATUM	SPREADING GOOSEBERRY	BARE ROOT	UM, T
	RG	900	ROSA GYMNOCARPA	BALDHIP ROSE	BARE ROOT	U
	RN	1300	ROSA NUTKANA	NOOTKA ROSE	BARE ROOT	U, T
	RP	1400	ROSA PISOCARPA	PEA FRUIT ROSE	BARE ROOT	U, T
	RT	3100	RUBUS PARVIFLORUS	THIMBLEBERRY	BARE ROOT	U, UE, UM, T, W
	RS	1000	RUBUS SPECTABILIS	SALMONBERRY	BARE ROOT	UM, T, W
	SH	*2000	SALIX HOOKERIANA	DUNE WILLOW	TWO (2) 3/4" - 1 1/2" DIA., 36" MIN LENGTH	W
	SS	*500	SALIX SITCHENSIS	SITKA WILLOW	TWO (2) 3/4" - 1 1/2" DIA., 36" MIN LENGTH	W
	SR	500	SAMBUCUS RACEMOSA	RED ELDERBERRY	BARE ROOT	U, UE, UM
	SD	700	SPIRAEA DOUGLASII	WESTERN SPIREA	BARE ROOT	W
	SA	3400	SYMPHORICARPOS ALBUS	SNOWBERRY	BARE ROOT	U, UM, T

* SALIX QTY INCLUDE TWO LIVE STAKES PER TREE SYMBOL. SEE DETAIL 2 ON LP5.30.

EMERGENTS - SPACED 18" O.C.	ZONE	QTY	SIZE
CAREX LYNGBYEI LYNDBY'S SEDGE	E	12,800	10 CU. IN. PLUG
CAREX OBNUPTA SLOUGH SEDGE	E	12,800	10 CU. IN. PLUG
CAREX STIPATA AWLFRUITED SEDGE	E	12,800	10 CU. IN. PLUG
ELEOCHARIS PALUSTRIE CREEPING SPIKERUSH	E	12,800	10 CU. IN. PLUG
JUNCUS ACUMINATUS TAPERED RUSH	E	12,800	10 CU. IN. PLUG
JUNCUS ENSIFOLIUS DAGGERLEAF RUSH	E	12,800	10 CU. IN. PLUG
SCIRPUS ACUTUS HARDSTEM BULRUSH	E	12,800	10 CU. IN. PLUG
SCIRPUS AMERICANUS TULE	E	12,800	10 CU. IN. PLUG
SCIRPUS MARITIMUM SALTMARSH BULRUSH	E	12,800	10 CU. IN. PLUG

6657

LP5.31

17

CONT/CONS: 071490

IM. ID: 101449.01

PHASE:

TOWNSHIP: 20N

DAT-HRZ: WA83-SF

PARCEL: 14

RANGE: 3E

VERT: MLLW (PORT OF TACOMA TIDAL)

DRAWING SCALE: AS NOTED

SECTION: 1

VERT: MLLW (PORT OF TACOMA TIDAL)

DRAWING SCALE: AS NOTED

LOWER WAPATO CREEK
HABITAT PROJECT PHASE II
PLANTING, IRRIGATION, AND FENCING

PLANTING SCHEDULE

APPROVED:

CHECKED BY: DJE
DATE: 02-25-2022

PROJ. ENGR
DATE: 02-25-2022

DIRECTOR ENG. DATE: Aveeo May 18, 2022

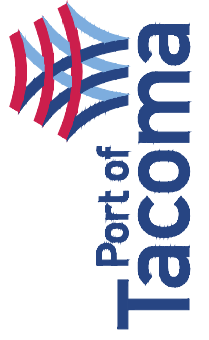
PRINTED BY: Aveeo May 18, 2022

PORT ADDRESS: 1 SITCOM PLAZA
TACOMA, WA 98421

95% CD

MARK: REVISION: BY: DATE: APPR:

SiteWorkshop
LANDSCAPE ARCHITECTURE
3800 Woodland Park Ave N Suite 200
Seattle, Washington 98103
206.285.3026
206.285.3629 fax



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