

ALAMO MANHATTAN BLOCKS RIVER BLOCKS AND GREENWAY



© 2020 WDG ARCHITECTURE (RIVER BLOCKS 41 & 44)

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EXHIBIT C: DESIGN DRAWINGS AND DETAILS

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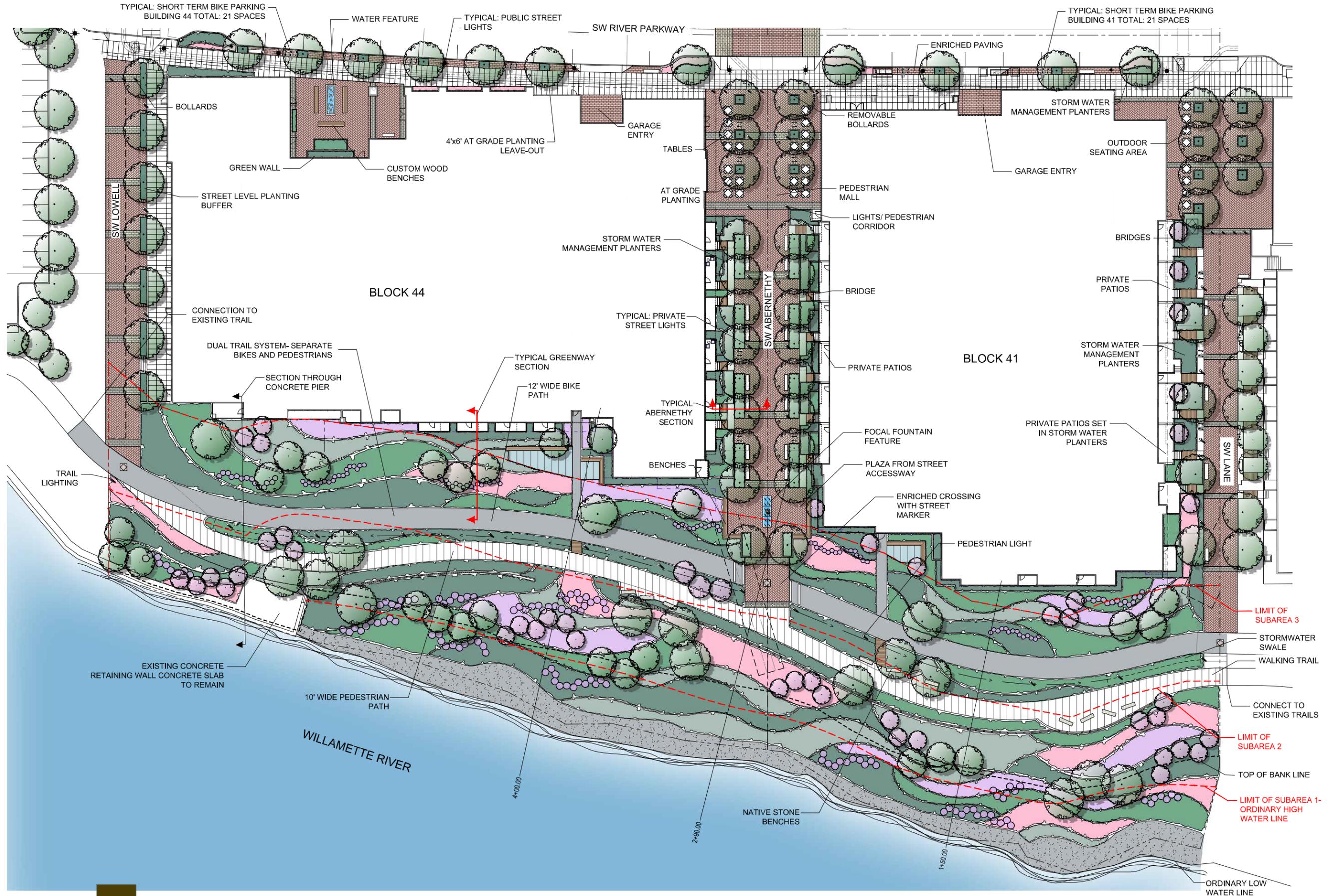
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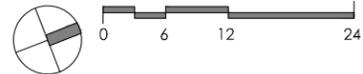
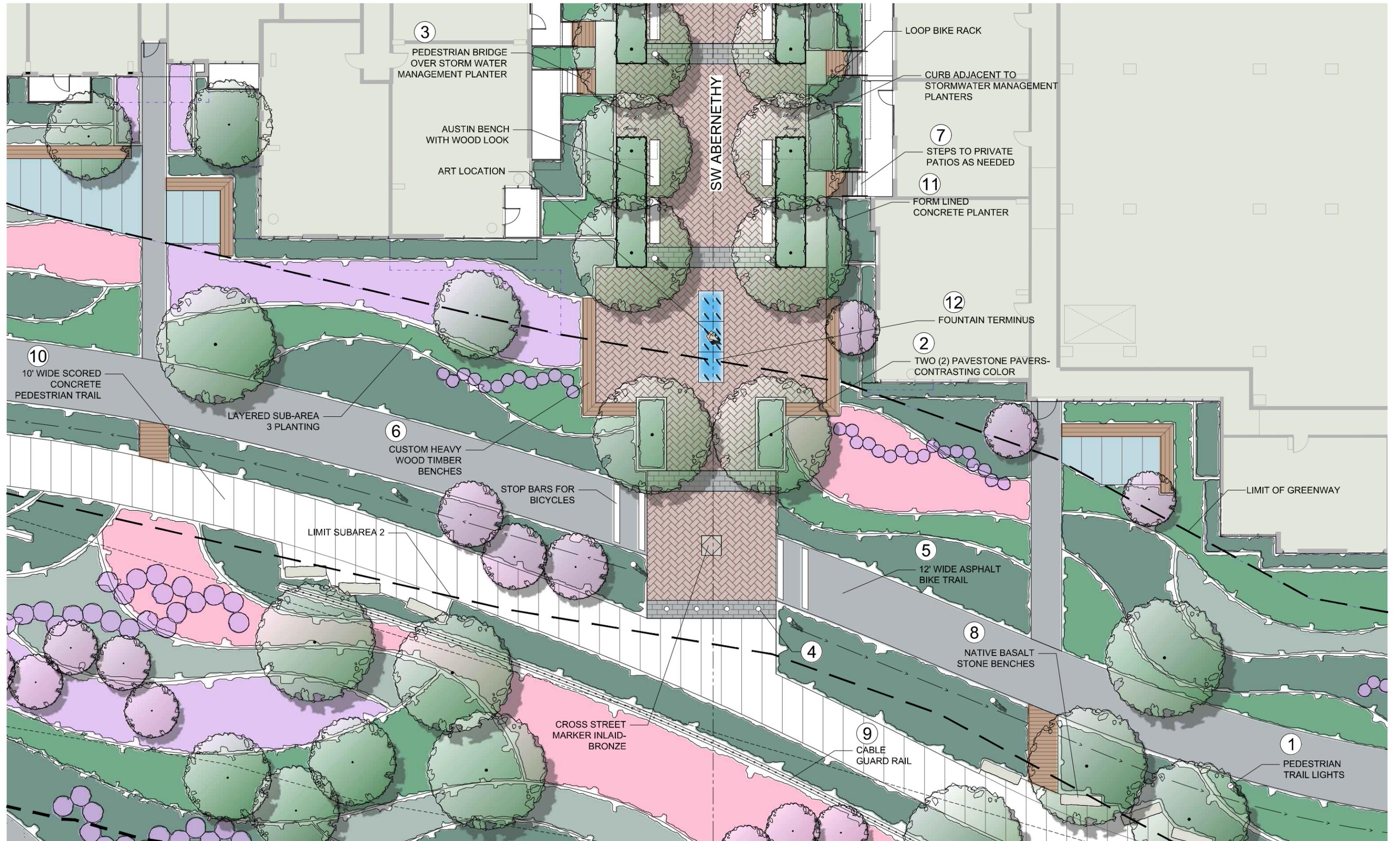
LANDSCAPE - RIVER BLOCKS - B41 & B44

LAND USE REVIEW # (LU-20-102914 DZM GW) EXHIBIT C.103



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GREENWAY/ PEDESTRIAN MALL ENLARGEMENT PLAN

LAND USE REVIEW # (LU-20-102914 DZM GW) EXHIBIT C.105

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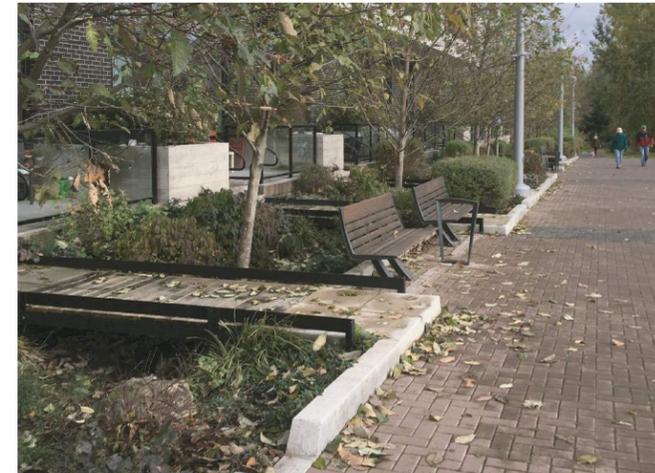
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DECORATIVE PEDESTRIAN LIGHT - SELUX RITORNO ①



PEDESTRIAN MALL CONCRETE PAVERS, TWO (2) CONTRASTING COLORS ②



WOOD BRIDGES OVER RAIN GARDENS ③



FOUND ARTIFACTS- PIER POSTS USED AS BOLLARDS ④



12' WIDE ASPHALT BIKE TRAIL ⑤



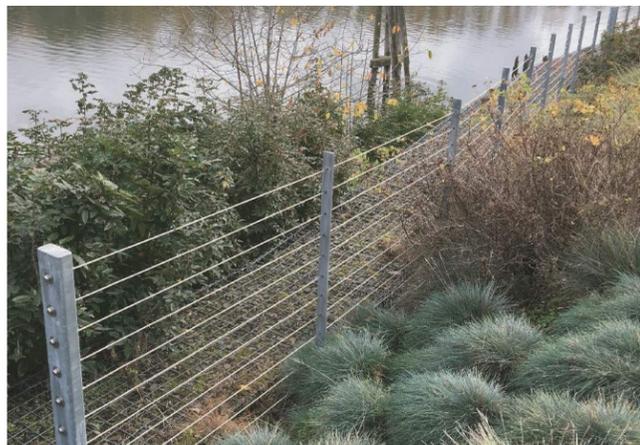
HEAVY TIMBER BENCH- MARITIME FEEL ⑥



PATIO CONNECTION TO PEDESTRIAN MALL ⑦



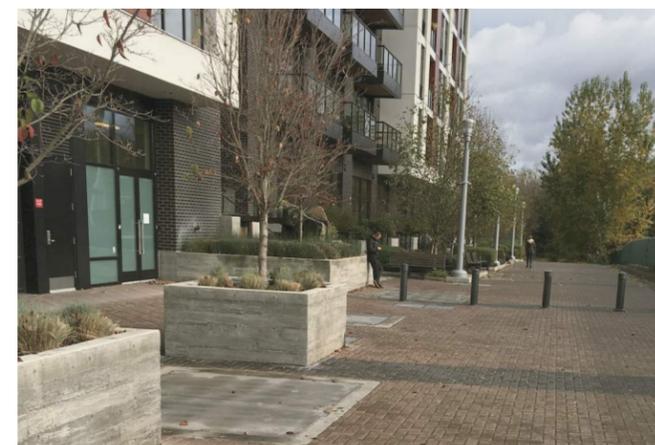
NATIVE BASALT STONE BENCH ⑧



CABLE GUARD RAIL ⑨



10' WIDE SCORED CONCRETE PEDESTRIAN TRAIL ⑩



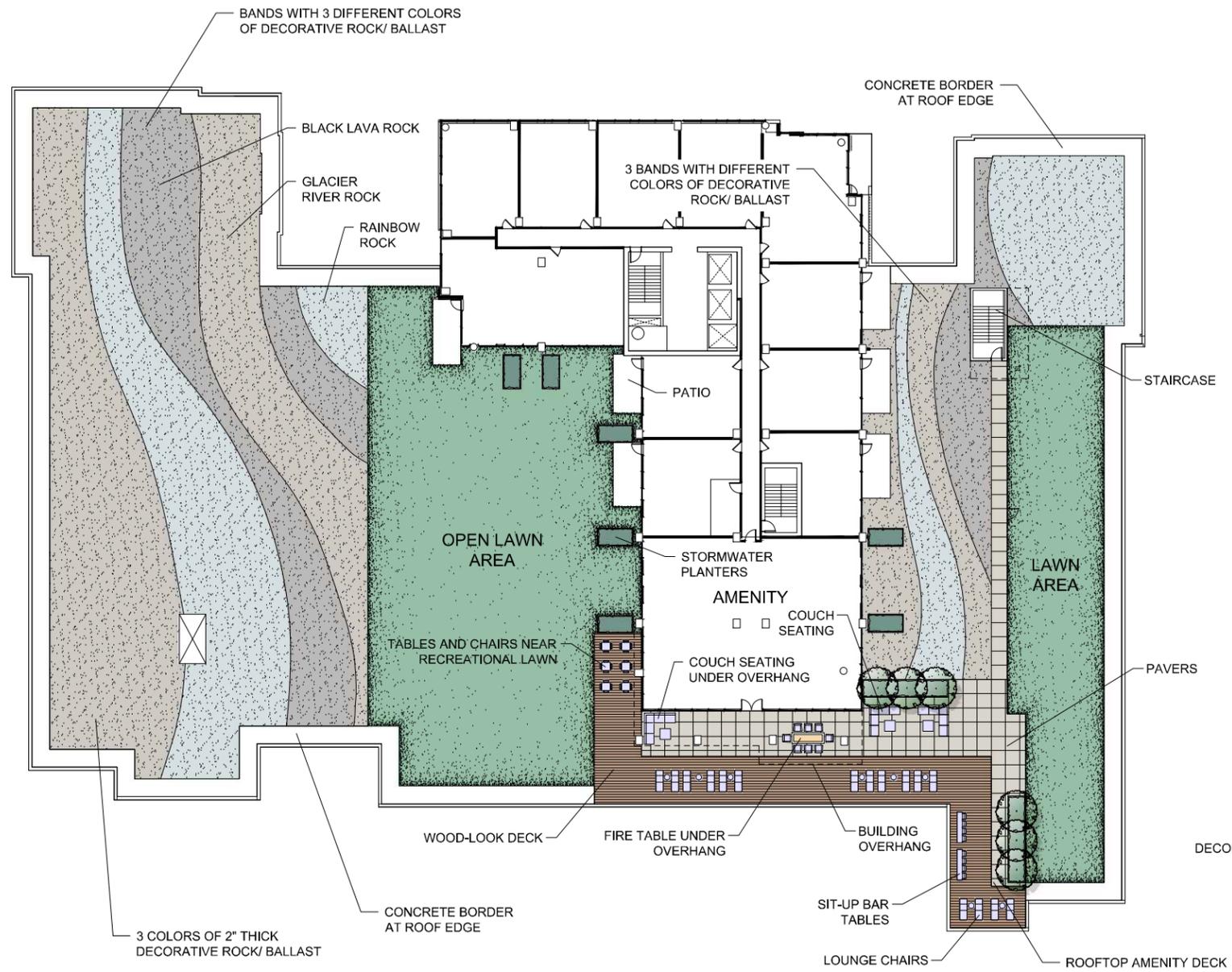
FORM LINED CONCRETE PLANTER ⑪



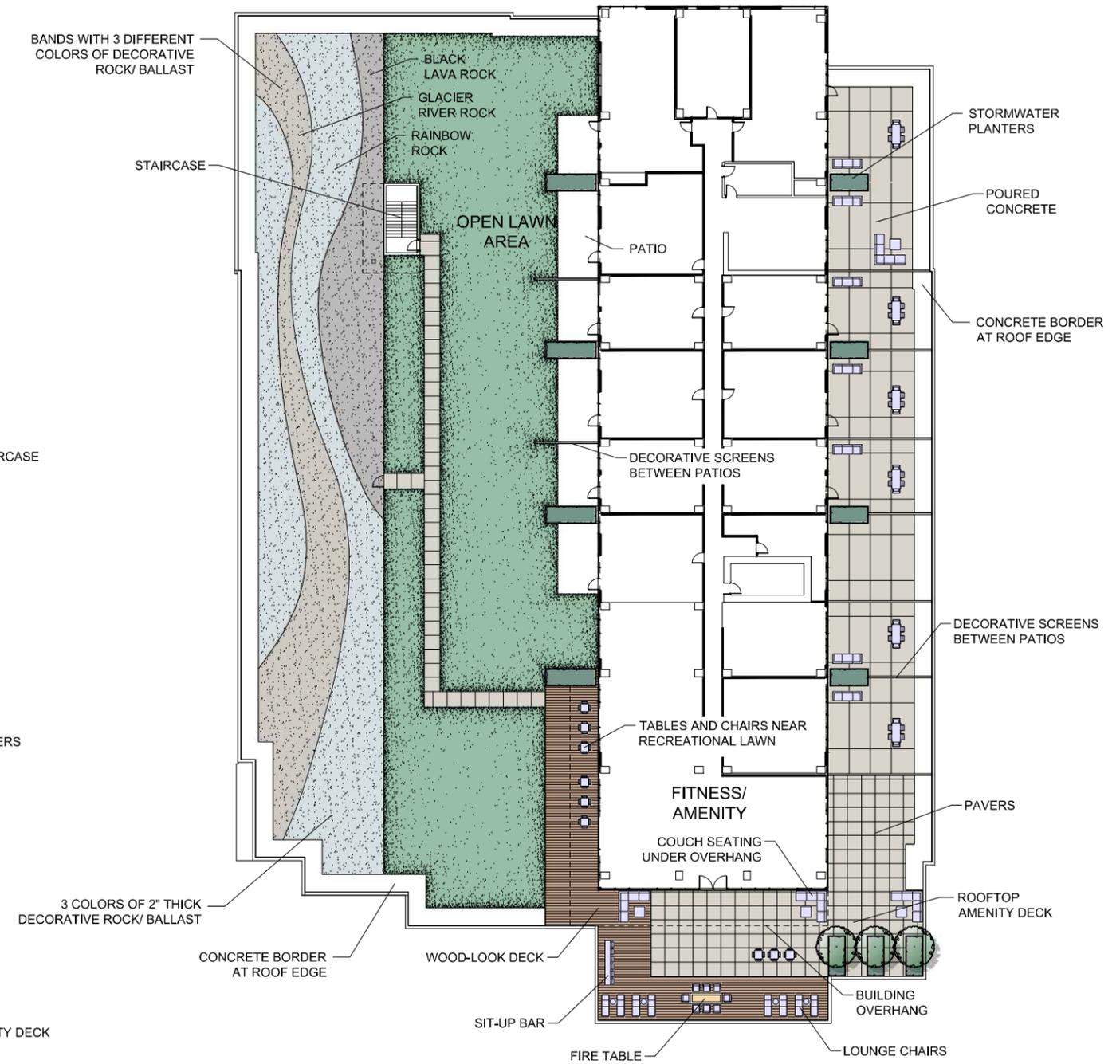
FOUNTAIN AT TERMINUS ⑫

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BUILDING 44



BUILDING 41



GLACIER RIVER ROCK



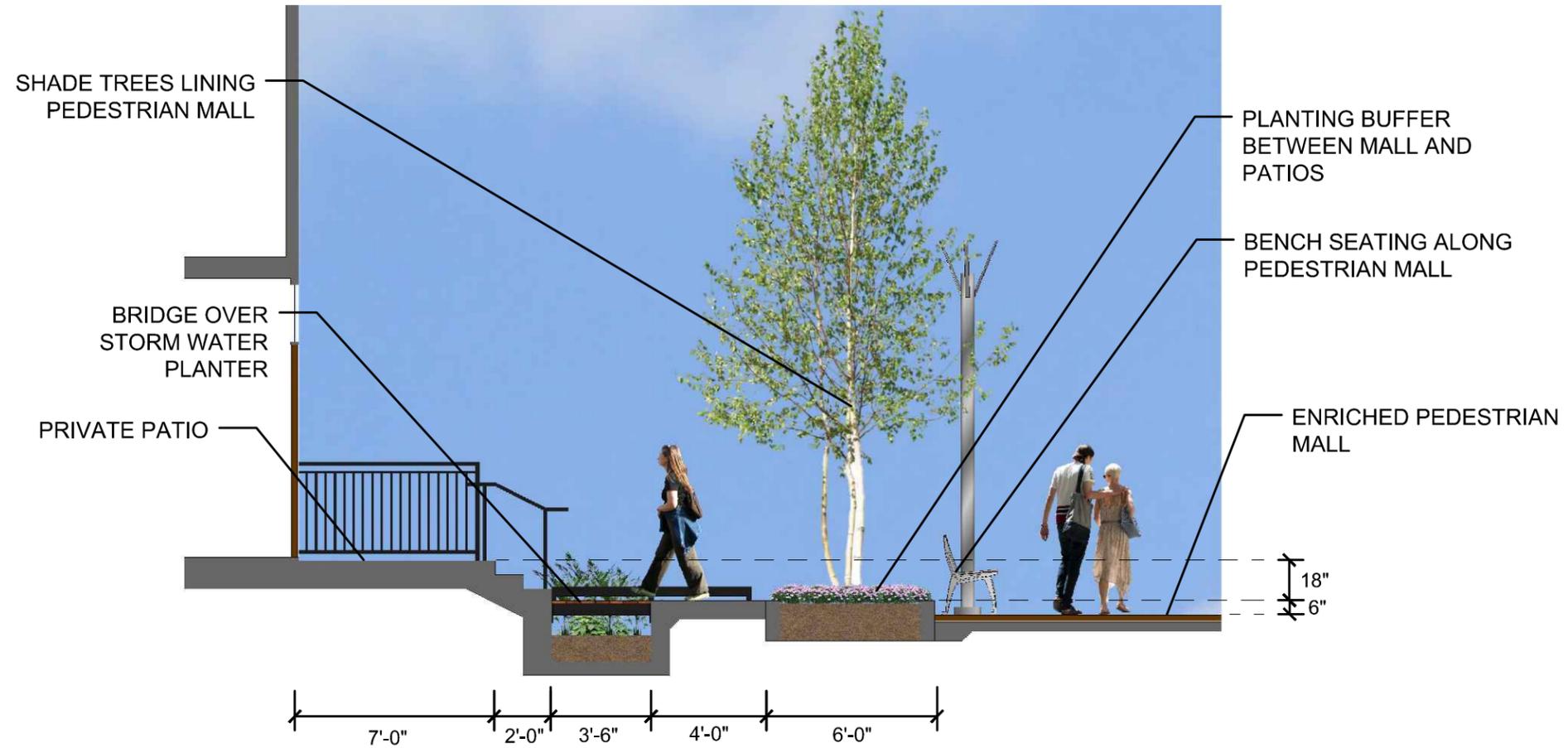
BLACK LAVA ROCK



RAINBOW ROCK

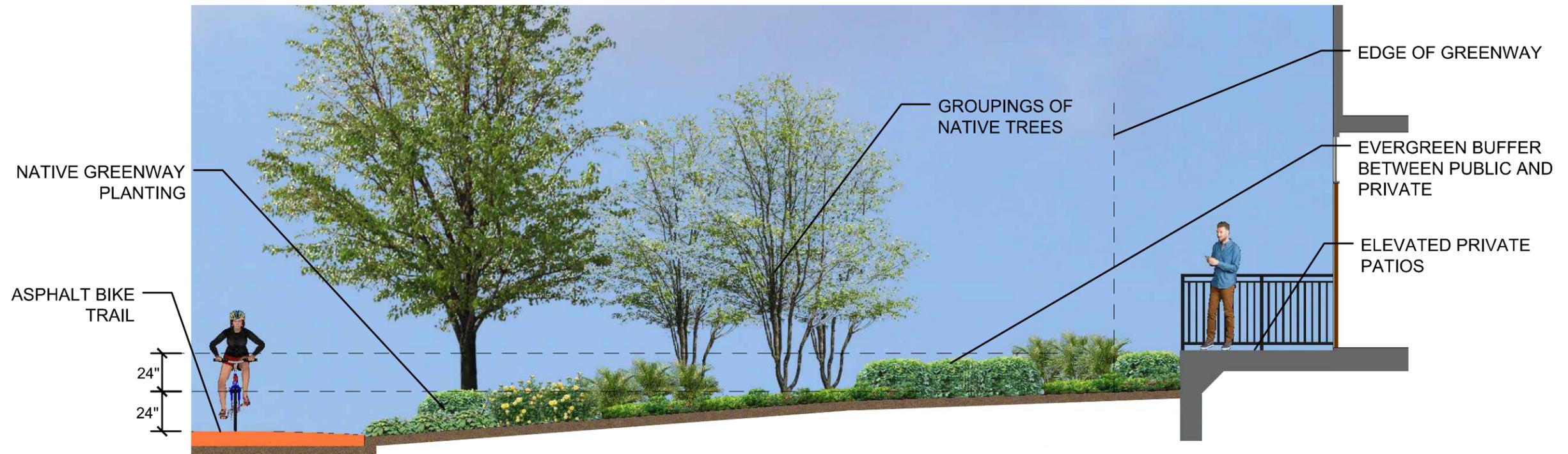


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TYPICAL PRIVATE PATIO SECTION AT SW ABERNETHY

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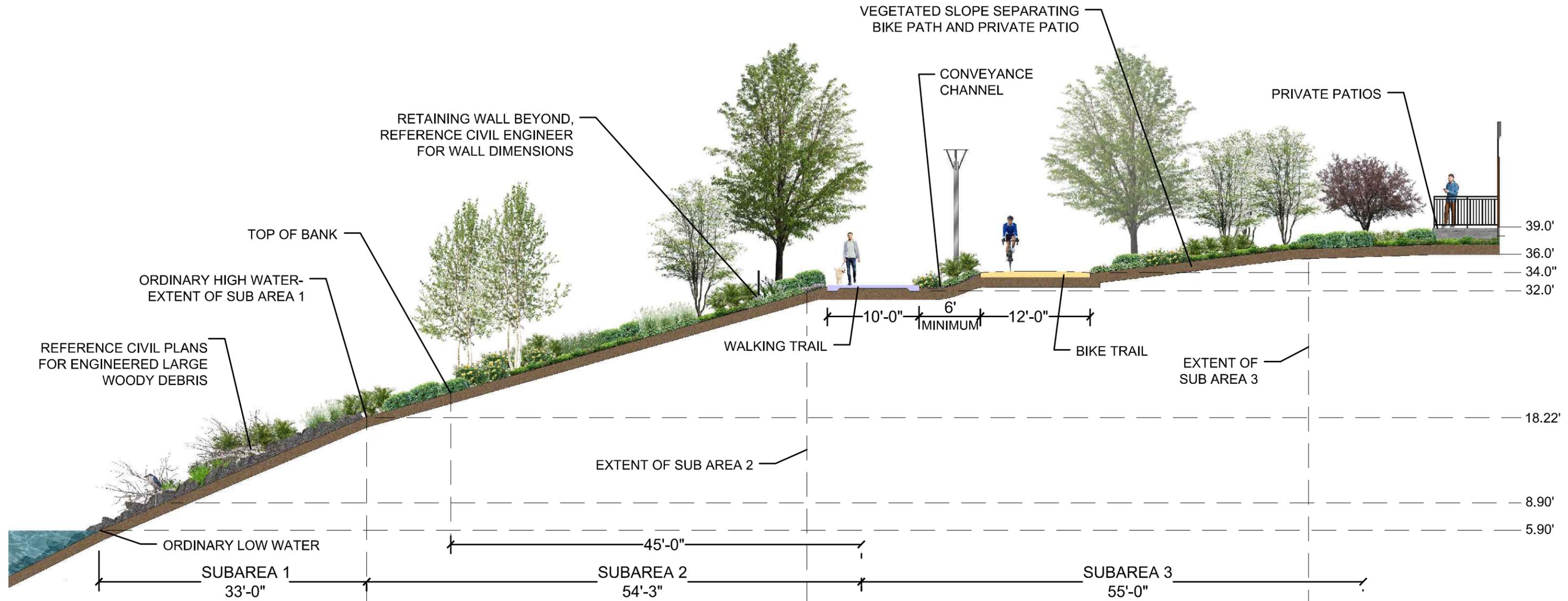


TYPICAL PRIVATE PATIO SECTION AT GREENWAY



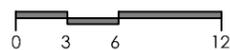
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GREENWAY PROFILE STA. 4+00

SEE L.001 FOR SECTION
LOCATION

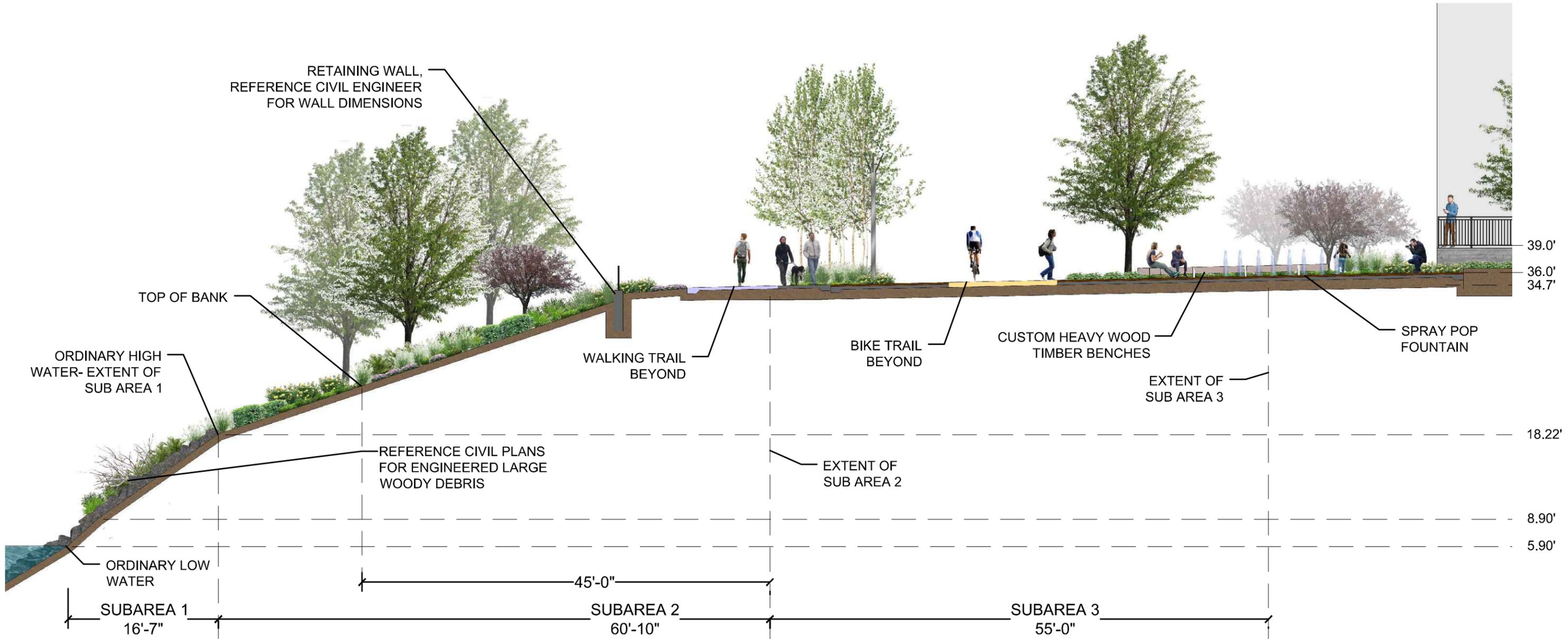


LANDSCAPE - GREENWAY SECTION

LAND USE REVIEW # (LU-20-102914 DZM GW) EXHIBIT C.110

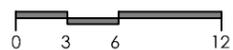
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GREENWAY PROFILE STA. 2+90

SEE L.001 FOR SECTION LOCATION

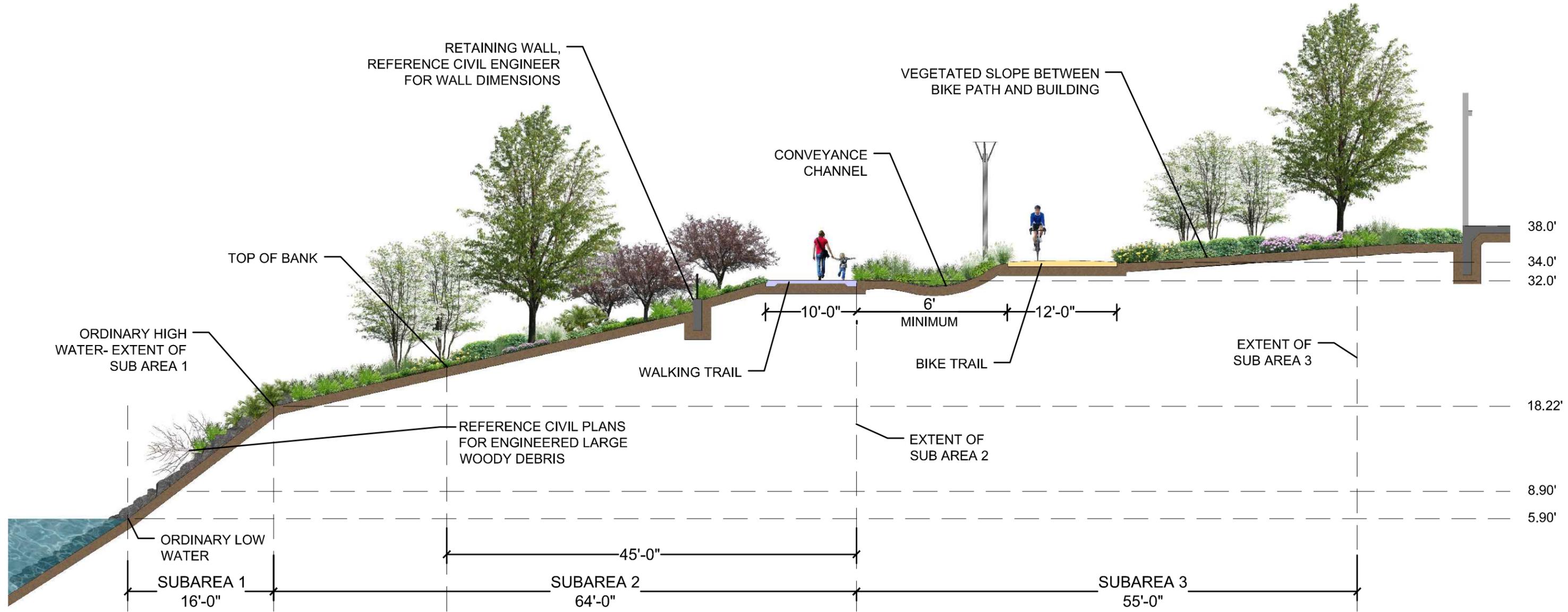


LANDSCAPE - GREENWAY SECTION

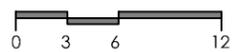
LAND USE REVIEW # (LU-20-102914 DZM GW) EXHIBIT C.111

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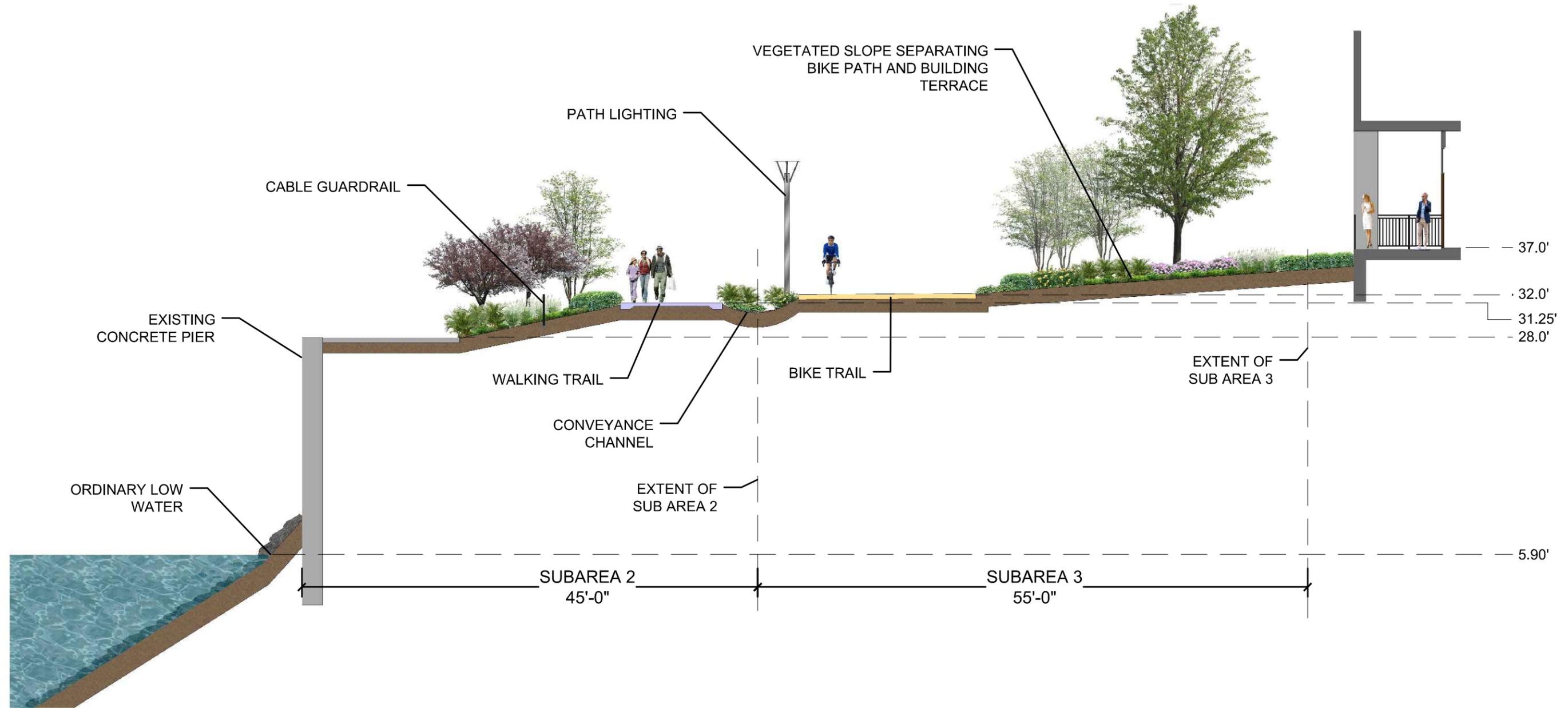


GREENWAY PROFILE STA. 1+50
 SEE L.001 FOR SECTION
 LOCATION



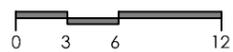
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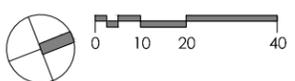
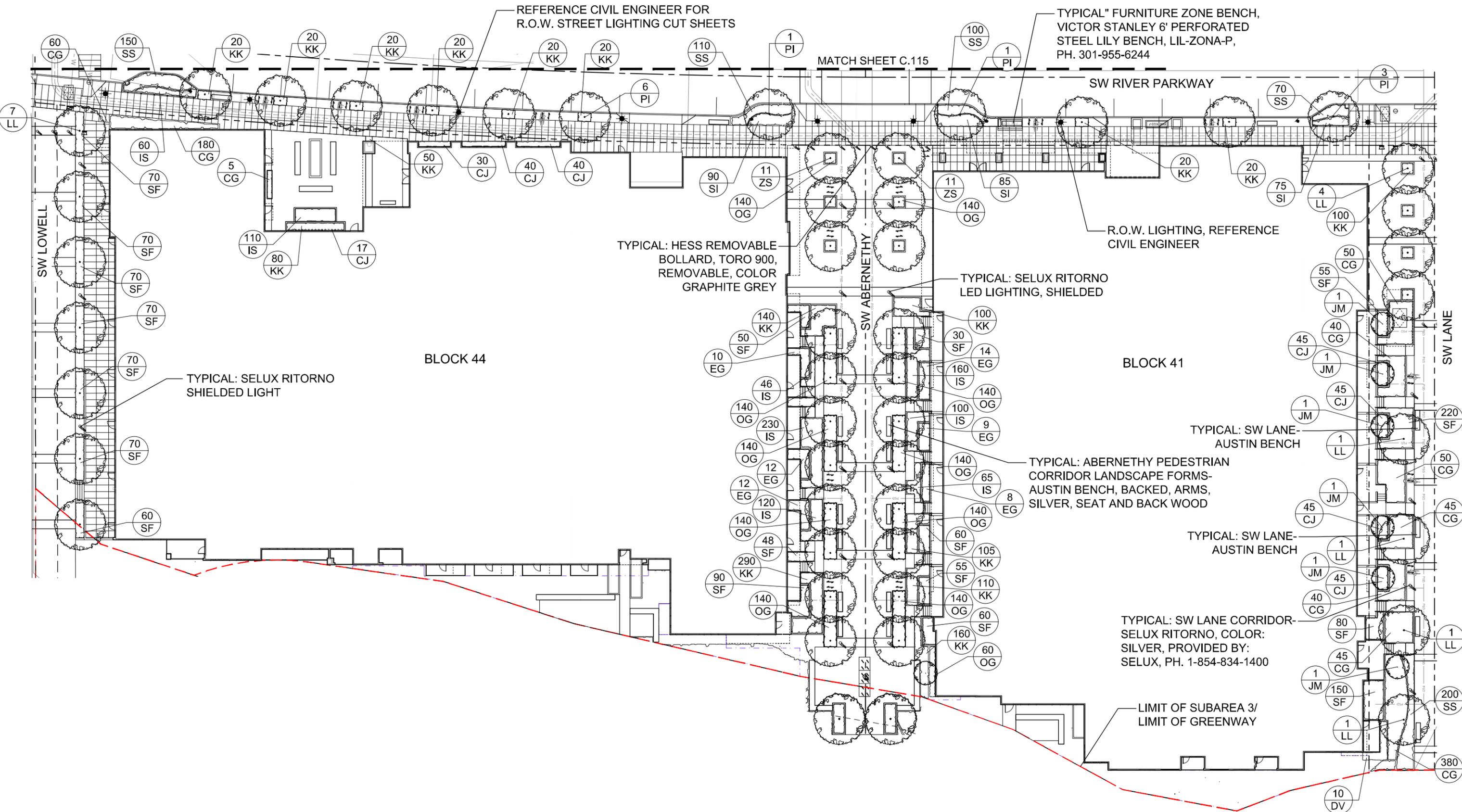
CONCRETE PIER SECTION

SEE L.001 FOR SECTION LOCATION



LANDSCAPE - GREENWAY SECTION

LAND USE REVIEW # (LU-20-102914 DZM GW) EXHIBIT C.113



LANDSCAPE - R.O.W. -PEDESTRIAN MALL/ APPURTENANCES- RIVER BLOCKS- B41 & B44

REFERENCE SHEET C.114b FOR PLANT CHART AND PLANT IMAGES

LANDSCAPE R.O.W., PEDESTRIAN MALLS, & CITY BLOCKS PLANT LIST IMAGES



Acer palmatum
'Emperor I'



Betula nigra
'Cully'



Parrotia persica



Tilia cordata
'Greenspire'



Zelkova serrata
'Village Green'



Abelia grandiflora
'Edward Goucher'



Buxus sempervirens
'Suffruticosa'



Iris sibirica



Trachelospermum
jasminoides



Carex obnupta



Viburnum davidii



Arctostaphylos uva ursi



Mahonia repens



Polystichum munitum

Public R.O.W. - Pedestrian Mall Plant List

Key	Scientific Name	Common Name	SIZE	SPACING
Trees				
RB	Betula nigra 'Cully'	'Heritage' River Birch	3" cal.	Per Plan
PI	Parrotia persica	Persian Ironwood	4" cal.	Per Plan
JM	Acer palmatum 'Emperor 1'	Emperor 1 Japanese Maple	3" cal.	Per Plan
LL	Tilia cordata 'Greenspire'	'Greenspire' Littleleaf Linden	4" cal.	Per Plan
ZS	Zelkova serrata 'Village Green'	'Village Green' Zelkova	4" cal.	Per Plan
Shrubs				
EG	Abelia grandiflora	'Edward Goucher' Abelia	5 gal.	2'-6" o.c.
BW	Buxus sempervirens 'Suffruticosa'	Dwarf English Boxwood	5 gal.	2'-6" o.c.
IS	Iris sibirica	Siberian Iris	1 gal.	12" o.c.
CG	Mahonia repens	Creeping Oregon Grape	1 gal.	12" o.c.
SF	Polystichum munitum	Sword Fern	1 gal.	12" o.c.
DV	Viburnum davidii	David Viburnum	5 gal.	2'-6" o.c.
Ground Cover				
SS	Carex obnupta	Slough Sedge	1 gal.	12" o.c.
KK	Arctostaphylos uva ursi	Kinnikinnick	1 gal.	12" o.c.
CJ	Trachelospermum jasminoides	Confederate Jasmine	1 gal.	12" o.c.

LANDSCAPE R.O.W., PEDESTRIAN MALLS, & CITY BLOCKS PLANT LIST IMAGES



Betula nigra
'Cully'



Parrotia persica



Tilia cordata
'Greenspire'



Zelkova serrata
'Village Green'



Abelia grandiflora
'Edward Goucher'



Buxus sempervirens
'Suffruticosa'



Iris sibirica



Mahonia repens



Polystichum munitum



Viburnum davidii



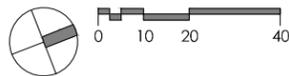
Carex obnupta



Arctostaphylos uva ursi

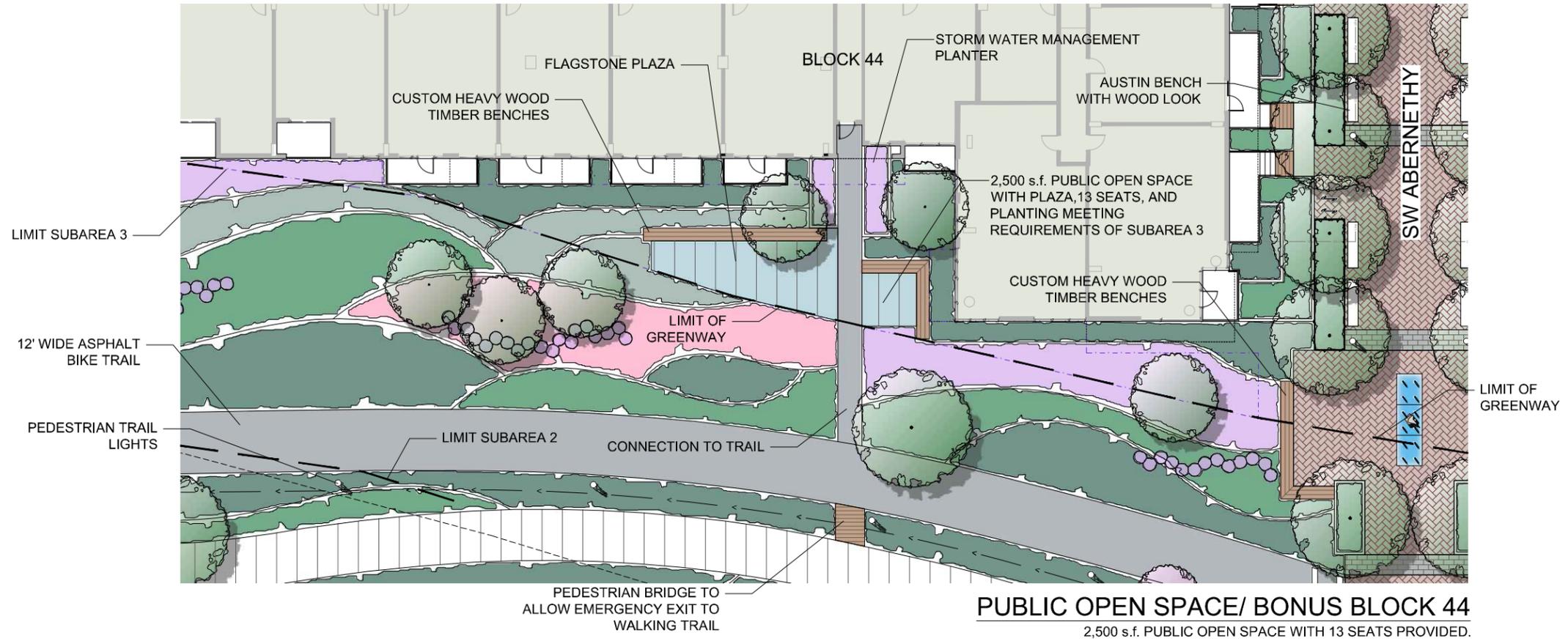


Trachelospermum
jasminoides

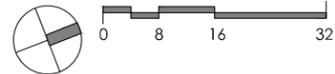
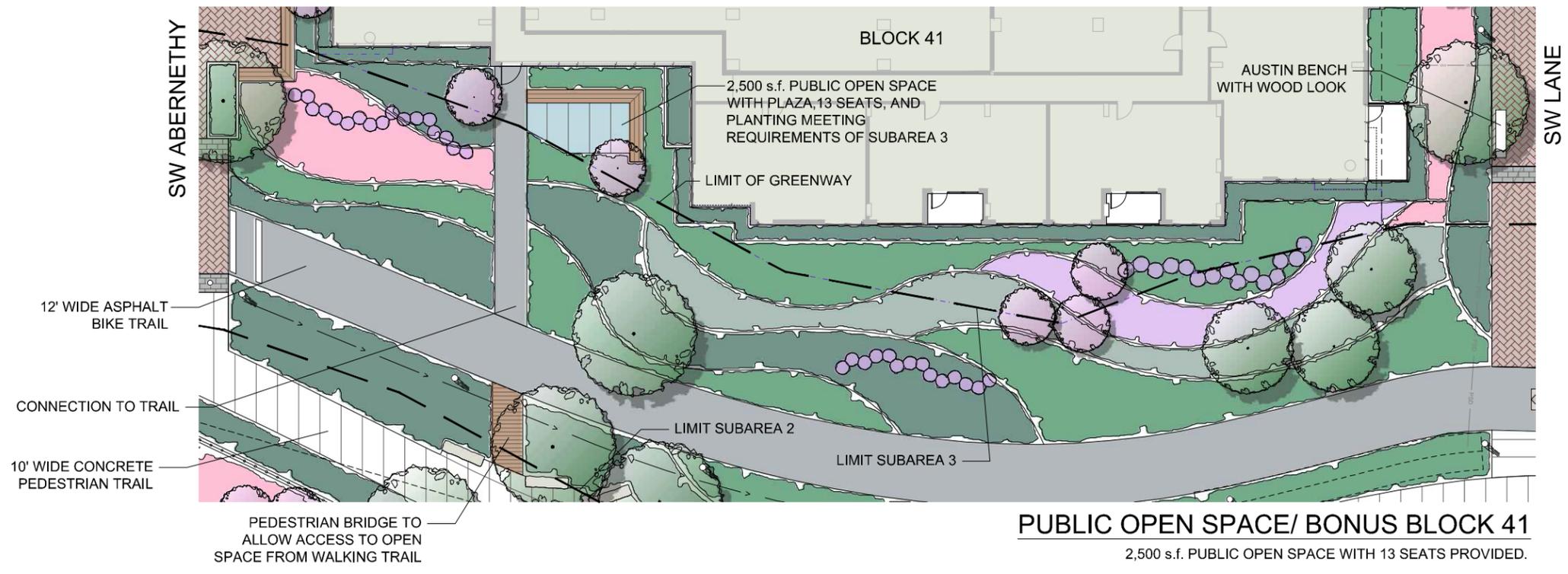


LANDSCAPE - R.O.W. PLANTING

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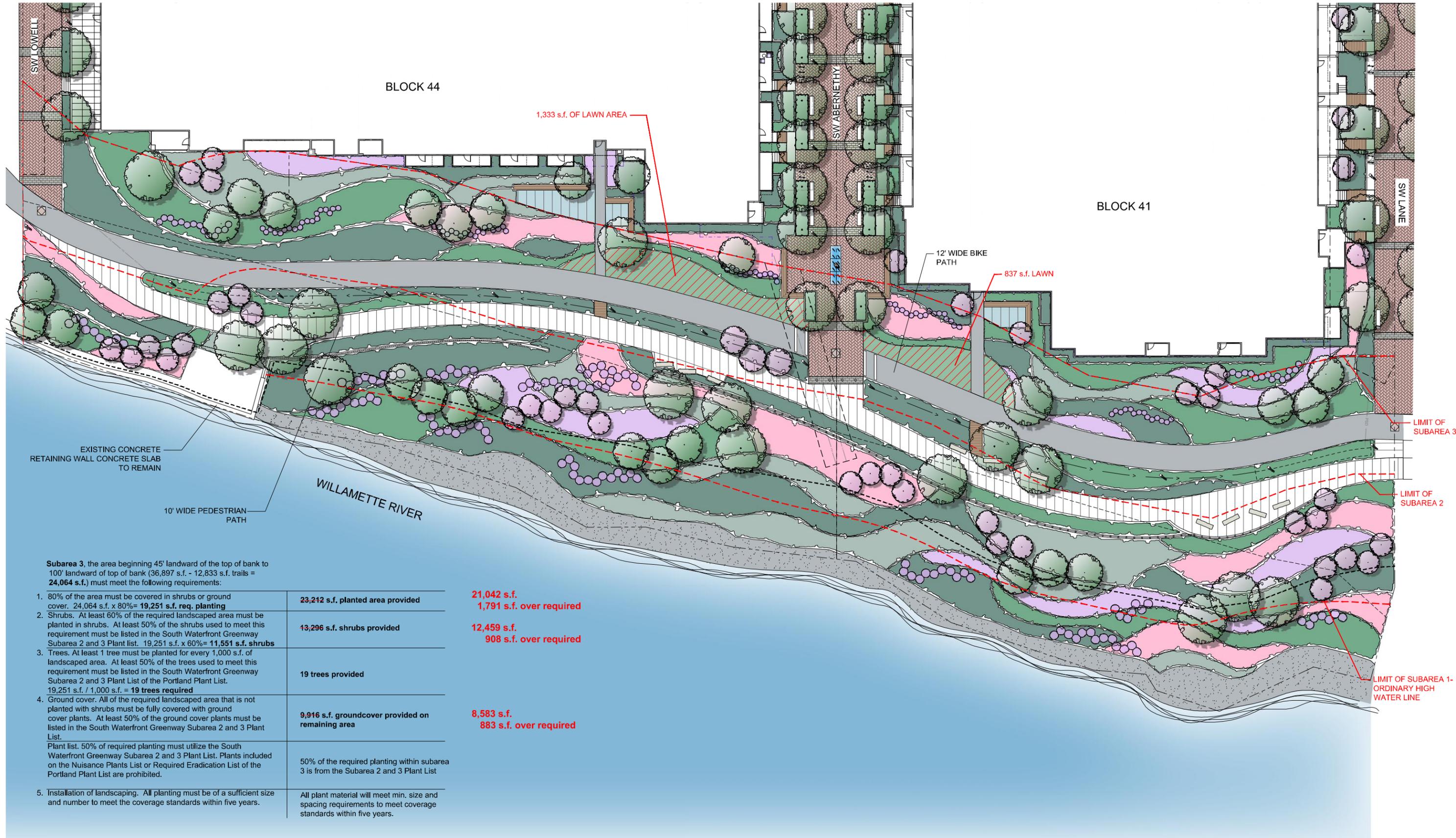
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PUBLIC OPEN SPACE/ BONUS PLAN - B41 & B44

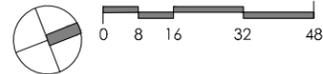
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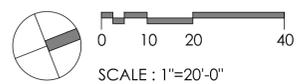
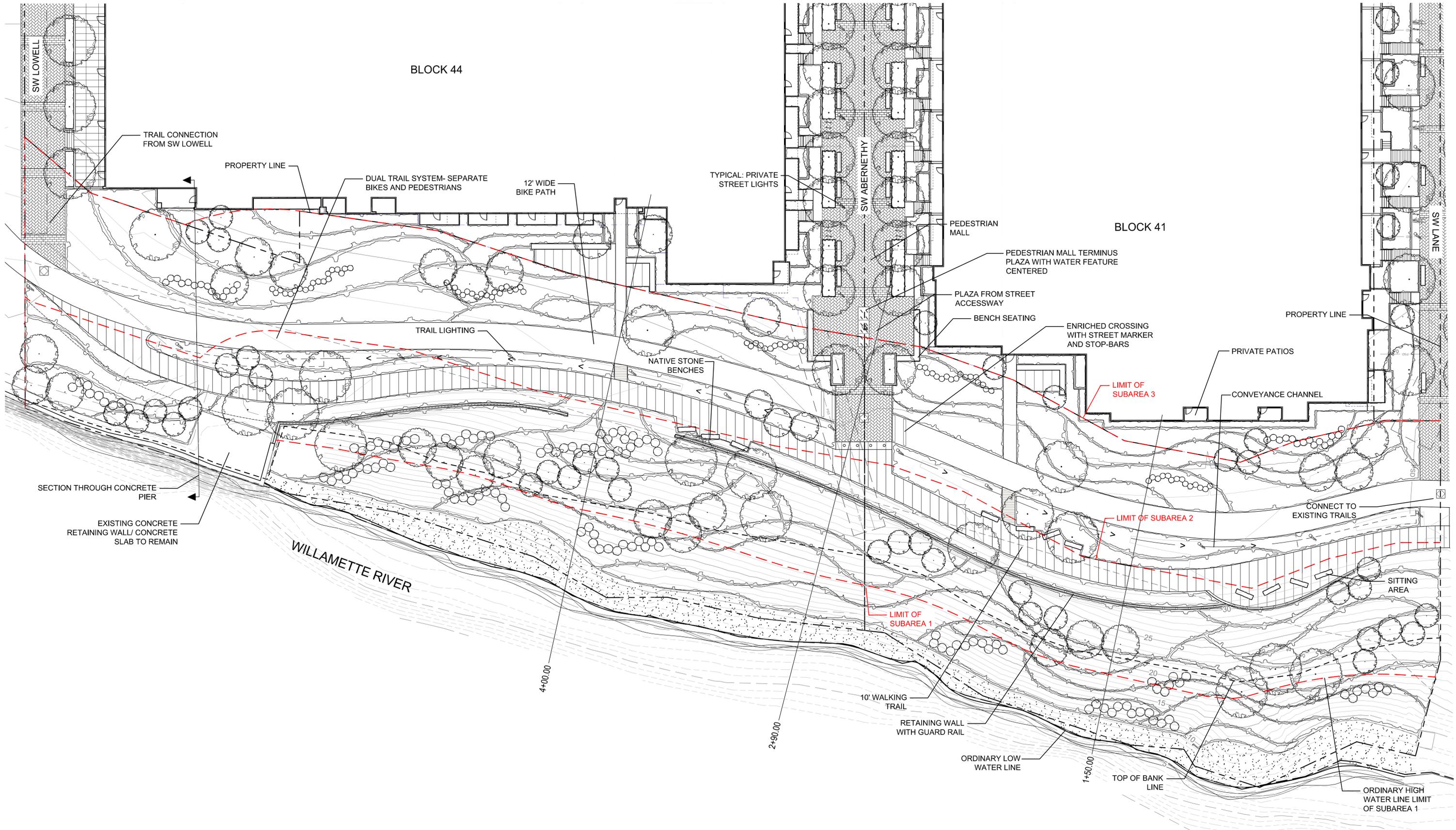
Subarea 3, the area beginning 45' landward of the top of bank to 100' landward of top of bank (36,897 s.f. - 12,833 s.f. trails = **24,064 s.f.**) must meet the following requirements:

1. 80% of the area must be covered in shrubs or ground cover. 24,064 s.f. x 80%= 19,251 s.f. req. planting	23,212 s.f. planted area provided	21,042 s.f. 1,791 s.f. over required
2. Shrubs. At least 60% of the required landscaped area must be planted in shrubs. At least 50% of the shrubs used to meet this requirement must be listed in the South Waterfront Greenway Subarea 2 and 3 Plant list. 19,251 s.f. x 60%= 11,551 s.f. shrubs	13,296 s.f. shrubs provided	12,459 s.f. 908 s.f. over required
3. Trees. At least 1 tree must be planted for every 1,000 s.f. of landscaped area. At least 50% of the trees used to meet this requirement must be listed in the South Waterfront Greenway Subarea 2 and 3 Plant List of the Portland Plant List. 19,251 s.f. / 1,000 s.f. = 19 trees required	19 trees provided	
4. Ground cover. All of the required landscaped area that is not planted with shrubs must be fully covered with ground cover plants. At least 50% of the ground cover plants must be listed in the South Waterfront Greenway Subarea 2 and 3 Plant List. Plant list. 50% of required planting must utilize the South Waterfront Greenway Subarea 2 and 3 Plant List. Plants included on the Nuisance Plants List or Required Eradication List of the Portland Plant List are prohibited.	9,916 s.f. groundcover provided on remaining area	8,583 s.f. 883 s.f. over required
5. Installation of landscaping. All planting must be of a sufficient size and number to meet the coverage standards within five years.	All plant material will meet min. size and spacing requirements to meet coverage standards within five years.	



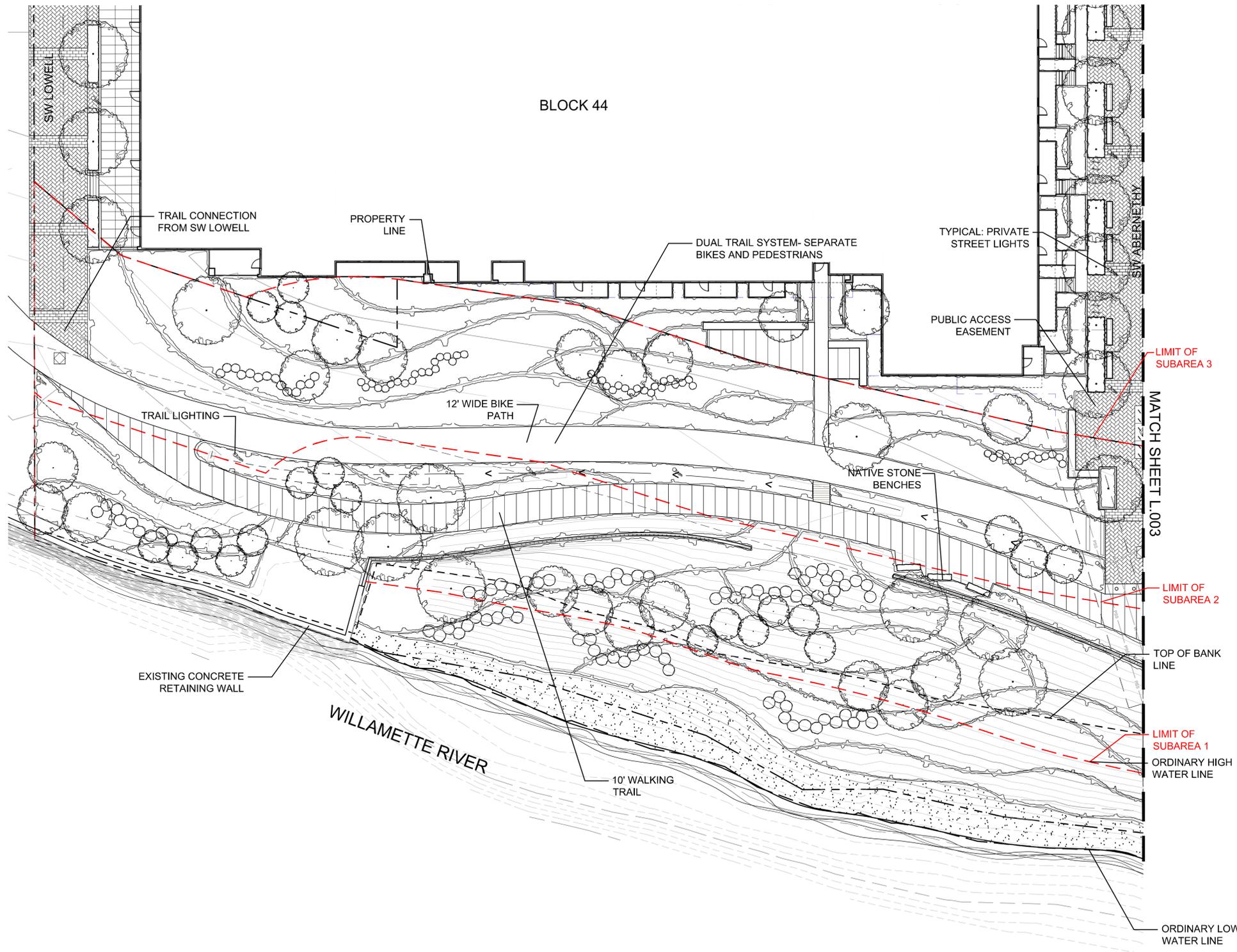
LANDSCAPE - LAWN EXHIBIT - B41 & B44

LAND USE REVIEW # (LU-20-102914 DZM GW) EXHIBIT C.117



LANDSCAPE - GREENWAY DEVELOPMENT PLAN- OVERALL

GREENWAY REVIEW # (LU-20-102914 DZM GW) EXHIBIT L.001



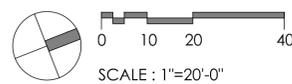
PLANTING TABULATIONS PER SECTION 33.510.253 E.5.f LANDSCAPING

Greenway Landscaping- Eighty (80) percent of the area that is not covered by buildings, trails, or other allowed non-landscaped area must be covered by shrubs or ground cover, and all trees required by this paragraph must be installed in the ground and healthy.

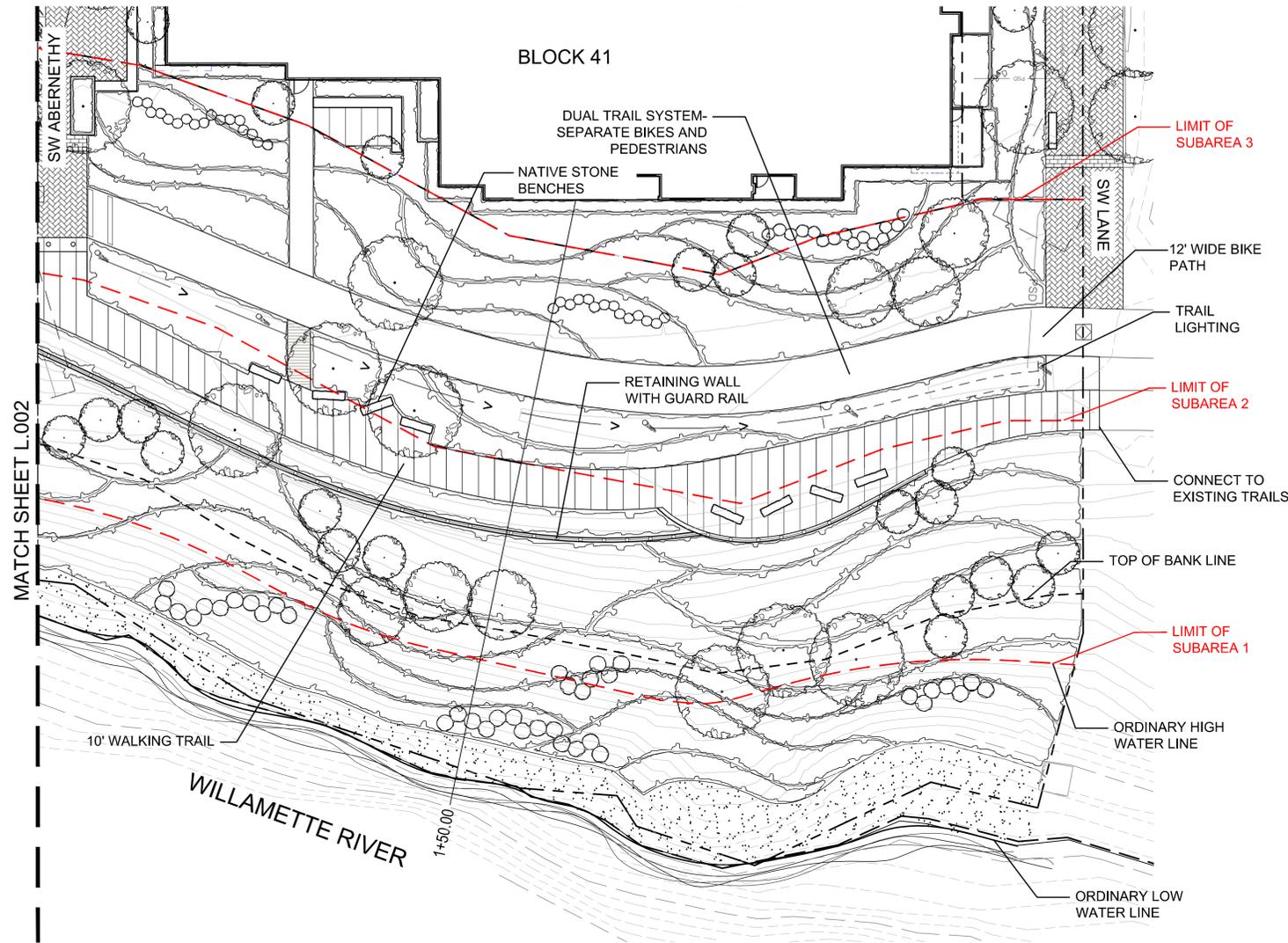
REQUIRED	PROVIDED
Subarea 1 , the area beginning 3 feet above the ordinary low water line to the high water line (12,801 s.f.) must meet the following requirements:	
1. 80% of the area must be covered in shrubs or ground cover. 12,801 s.f. x 80%= 10,241 s.f. req. planting	10,559 s.f. planted area provided
2. Shrubs. At least 80% of the required planting must be planted in shrubs; 10,241 s.f. x 80%= 8,193 s.f. req. shrubs	10,076 s.f. shrubs provided
3. Trees. Trees are not required, but are allowed	No trees are planted in subarea 1.
4. Ground cover. All of the required landscaped area that is not planted with shrubs or trees must be fully covered with ground cover plants	483 s.f. ground cover provided on remaining area
5. Plant list. Only plants listed in the South Waterfront Greenway Subarea 1 Plant List may be planted.	All required planting within subarea 1 is from Subarea 1 Plant List.
6. Installation of landscaping. All planting must be of a sufficient size and number to meet the coverage standards within five years. Planting is not allowed during the summer.	All plant material will meet min. size and spacing requirements to meet coverage standards within five years.

Subarea 2 , the area beginning at the ordinary high water and measuring 45' landward of the top of bank (31,956 s.f. - 5,784 s.f. trails = 26,172 s.f.) must meet the following requirements:	
1. 80% of the area must be covered in shrubs or ground cover. 26,172 s.f. x 80%= 20,938 s.f. req. planting	26,962 s.f. planted area provided
2. Shrubs. At least 80% of the required landscaped area must be planted in shrubs. 20,938 s.f. x 80%= 16,750 s.f. req. shrubs	16,860 s.f. shrubs provided
3. Trees. At least one tree must be planted for every 400 square feet of required landscaped area. 20,938 s.f. / 400 s.f. = 53 trees.	53 trees provided
4. Ground cover. All of the required landscaped area that is not planted with shrubs must be fully covered with ground cover plants	10,102 s.f. ground cover provided on remaining area.
5. Plant list. Only plants listed in the South Waterfront Greenway Subarea 2 and 3 Plant list of the Portland Plant List may be planted. At least eight different species must be planted.	All planting within subarea 2 is from Subarea 2 and 3 Plant List and eight species are provided
6. Installation of landscaping. All planting must be of a sufficient size and number to meet the coverage standards within five years.	All plant material will meet min. size and spacing requirements to meet coverage standards within five years.

Subarea 3 , the area beginning 45' landward of the top of bank to 100' landward of top of bank (36,897 s.f. - 12,833 s.f. trails = 24,064 s.f.) must meet the following requirements:	
1. 80% of the area must be covered in shrubs or ground cover. 24,064 s.f. x 80%= 19,251 s.f. req. planting	23,212 s.f. planted area provided
2. Shrubs. At least 60% of the required landscaped area must be planted in shrubs. At least 50% of the shrubs used to meet this requirement must be listed in the South Waterfront Greenway Subarea 2 and 3 Plant list. 19,251 s.f. x 60%= 11,551 s.f. shrubs	13,296 s.f. shrubs provided
3. Trees. At least 1 tree must be planted for every 1,000 s.f. of landscaped area. At least 50% of the trees used to meet this requirement must be listed in the South Waterfront Greenway Subarea 2 and 3 Plant List of the Portland Plant List. 19,251 s.f. / 1,000 s.f. = 19 trees required	19 trees provided
4. Ground cover. All of the required landscaped area that is not planted with shrubs must be fully covered with ground cover plants. At least 50% of the ground cover plants must be listed in the South Waterfront Greenway Subarea 2 and 3 Plant List.	9,916 s.f. groundcover provided on remaining area
Plant list. 50% of required planting must utilize the South Waterfront Greenway Subarea 2 and 3 Plant List. Plants included on the Nuisance Plants List or Required Eradication List of the Portland Plant List are prohibited.	50% of the required planting within subarea 3 is from the Subarea 2 and 3 Plant List
5. Installation of landscaping. All planting must be of a sufficient size and number to meet the coverage standards within five years.	All plant material will meet min. size and spacing requirements to meet coverage standards within five years.



GREENWAY/ SUB-AREAS 1, 2, & 3 PLANT LIST IMAGES



Acer macrophyllum Acer palmatum 'Emperor I' Betula nigra 'Cully' Crataegus douglasii Gleditsia triacanthos inermis 'Skycole' Malus fusca



Parrotia persica Pseudotsuga menziesii Tilia cordata 'Greenspire' Prunus emarginata Abelia grandiflora 'Edward Goucher'



Amelanchier alnifolia Buxus sempervirens 'Suffruticosa' Cistus Species Fescue glauca 'Elijah Blue' Gaultheria shallon



Iris sibirica Mahonia aquifolium Mahonia repens Polystichum minitum Rhododendron 'PJM'



Ribes sanguineum Salix fluviatilis Salix lucida Salix sitchensis



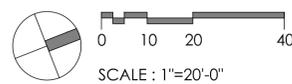
Viburnum davidii Arctostaphylos uva ursi Carex obnupta Trachelospermum jasminoides Acer circinatum



Potentilla glandulosa Vancouveria hexandra Juncus ensifolius Spirea douglasii

PLANTING TABULATIONS PER SECTION 33.440.230 LANDSCAPING

REQUIRED	PROVIDED
1. A minimum of one tree for every 20 l.f. feet of river frontage. Approximately 650 l.f. / 20' = 33 Trees	72 trees (Subareas 2 and 3)
2. A minimum of one shrub per 25 s.f. of area within and riverward of the greenway setback that is not paved with required pathways. 66,222 s.f. / 25 s.f. = 2,650 shrubs	6,500 shrubs provided.
3. Remaining areas which are not paved with required pathways must have living ground cover.	Area not covered with shrubs or required pathways will be covered with living ground cover.
4. All trees and shrubs are to be planted generally within and riverward of the greenway setback.	All proposed planting to meet this section will be planted riverward of the greenway setback.
5. The standards are for calculation purposes only, and do not require or imply linear planting. Grouping of trees and shrubs is encouraged, particularly on the riverbank.	Planting to meet the requirements of this section have been spaced in groupings to maintain views to the river.
6. All landscaping must comply with the native plant requirements of the Willamette Greenway Plan.	All proposed planting to meet the requirements of this section have been selected from the South Waterfront Greenway Plant List



© 2019 WDG ARCHITECTURE (RIVER BLOCKS 41 & 44)

© 2019 HLR ARCHITECTS (INNER BLOCKS 42 & 45)

GENERAL NOTES

1. ERRORS AND OMISSIONS ARE THE RESPONSIBILITY OF THE "ENGINEER OF RECORD". IF ERRORS OR OMISSIONS ARE FOUND AFTER THE PERMIT HAS BEEN ISSUED, THE PERMITTEE OR ITS CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD (BRIAN A. BALLERINI OF OTAK, INC. AT 503-415-2416) TO HAVE THE CORRECTIONS MADE. ALL CHANGES WILL REQUIRE THE APPROVAL OF THE CITY ENGINEER PRIOR TO THE WORK BEGINNING.
2. THE CONTRACTOR SHALL HAVE AT ALL TIMES ON-SITE, THE APPROVED CONSTRUCTION DRAWINGS & SPECIAL SPECIFICATIONS, CITY OF PORTLAND STANDARD SPECIFICATIONS & STANDARD DRAWINGS, AND ALL OTHER APPLICABLE SPECIFICATIONS BOOKS AND MANUALS. ELECTRONIC EQUIVLENT ARE ACCEPTABLE.
3. ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THESE DRAWINGS AND THE APPLICABLE REQUIREMENTS OF THE 2010 EDITION OF THE CITY OF PORTLAND STANDARD CONSTRUCTION SPECIFICATIONS AND ALL REVISIONS AND SPECIAL SPECIFICATIONS.
4. A PRECONSTRUCTION CONFERENCE WITH CITY STAFF AND AN APPROVED TEMPORARY TRAFFIC CONTROL PLAN (ISSUED IN CONJUNCTION WITH A STREET /SIDEWALK CLOSURE PERMIT) ARE REQUIRED BEFORE COMMENCING WORK. SEE PERMIT FOR SCHEDULING A PRECONSTRUCTION CONFERENCE AND ACQUISITION OF THE TTCP.
5. ELEVATIONS ARE BASED ON CITY OF PORTLAND DATUM FROM BENCH MARK NO. 3754. ELEVATION = 35.449. LOCATED AT SW MOODY AVE AND SW WHITAKER ST.
6. **ATTENTION EXCAVATORS** OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THESE RULES FROM THE CENTER BY CALLING [503.232.1987]. IF YOU HAVE ANY QUESTIONS ABOUT THE RULES, YOU MAY CONTACT THE CALL CENTER. YOU MUST NOTIFY THE CENTER AT LEAST 2 BUSINESS DAYS, BUT NOT MORE THAN 10 BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION. CALL [811 OR 1-800-332-2344].

ENCROACHMENTS

7. STREET FURNISHINGS ARE SHOWN FOR REFERENCE ONLY. THE INSTALLATION OF ALL STREET FURNITURE INCLUDING BUT NOT LIMITED TO BENCHES, NON CITY INSTALLED BIKE RACKS, GARBAGE CANS, ELECTRICAL SYSTEMS (CONDUIT, CONDUCTORS, OUTLETS), AND PUBLIC ART, ARE NOT AUTHORIZED UNDER THIS PERMIT. A SEPARATE REVOCABLE PERMIT IS REQUIRED.

UNANTICIPATED CONTAMINATED MATERIAL

8. REMOVE AND DISPOSE (AT A PROPER LOCATION OR LANDFILL) ALL MATERIALS EXCAVATED FROM WORK IN THE RIGHT-OF-WAY. FOR DISPOSAL ON PRIVATE PROPERTY, SECURE A FILL PERMIT, PRIOR TO BEGINNING WORK FROM THE BUREAU OF DEVELOPMENT SERVICES (BDS). PROVIDE A COPY OF THE APPROVED FILL PERMIT TO THE STREET CONSTRUCTION INSPECTOR.

FOR UNANTICIPATED CONTAMINATED MEDIA ENCOUNTERED, THE PERMITTEE/APPLICANT OR ITS AGENT SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE MANAGEMENT, AND DISPOSAL OF CONTAMINATED MEDIA ENCOUNTERED. THE PERMITTEE IS ALSO RESPONSIBLE FOR ALL RESULTANT DELAYS.

THE PERMITTEE OR ITS AGENT SHALL PROVIDE THE CITY (ENGINEERING AND INSPECTION) WITH COPIES OF ALL DISPOSAL PERMITS FROM THE PERMITTED DISPOSAL FACILITY, ANALYTICAL RESULTS USED TO GAIN ACCEPTANCE OF THE CONTAMINATED MEDIA, AND DISPOSAL RECEIPTS/DAILY WEIGH SLIPS. DAILY WEIGH SLIP AMOUNTS SHALL BE CHECKED AGAINST INSPECTOR'S DAILY REPORTS. THE PERMITTEE MUST USE AN OREGON FACILITY FOR DISPOSAL OF THE CONTAMINATED MEDIA.

UTILITIES

9. UTILITIES SHOWN ON THESE PLANS ARE FOR INFORMATION AND COORDINATION PURPOSES ONLY AND ARE NOT AUTHORIZED FOR INSTALLATION UNDER THE PUBLIC STREET IMPROVEMENT PERMIT. PRIVATE AND PUBLIC UTILITY COMPANIES ARE REQUIRED TO SECURE SEPARATE UTILITY PERMITS FROM THE PBOT FOR ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
10. COORDINATION OF ALL UTILITY RELOCATES, REMOVALS, OR INSTALLATION WITHIN THE LIMITS OF WORK IS THE RESPONSIBILITY OF THE PERMITTEE/CONTRACTOR.
11. STORM AND SANITARY SEWERS ARE BEING CONSTRUCTED UNDER JOB # ?????. AS APPROVED BY THE BUREAU OF ENVIRONMENTAL SERVICES.
12. WATER MAINS AND SERVICES ARE BEING CONSTRUCTED UNDER JOB # ?????. AS APPROVED BY THE WATER BUREAU.

STREET PAVEMENT

13. ALL MANHOLE LIDS AND VALVE BOXES SHALL BE ADJUSTED TO FINISHED STREET GRADE.
14. THE STREET INSPECTOR WILL MAKE THE FINAL DETERMINATION OF THE LIMITS OF PAVEMENT RESTORATION, INCLUDING SAWCUT LINES AND SKIN PATCHING. THE PERMITTEE/CONTRACTOR SHALL CONSULT WITH THE STREET INSPECTOR PRIOR TO SAWCUTTING OR DEMOLISHING OF PAVEMENT.
15. SAWCUTS SHALL BE STRAIGHT MATCHLINES TO CREATE A BUTT JOINT BETWEEN THE EXISTING PAVEMENT AND NEW PAVEMENT AND ALL NEW PAVEMENT JOINTS SHALL BE SAND SEALED.
16. EXISTING PAVEMENT SECTION WIDTHS OF 2 FEET OR LESS BETWEEN PROPOSED SAWCUT AND EXISTING PAVEMENT EDGE (I.E. UTILITY TRENCH REPAIR), SHALL BE RESTORED PER STD. DWG. P-505.
17. PAVEMENT SECTION SHALL BE AS SHOWN ON THE STREET TYPICAL SECTION(S) OR MATCH EXISTING PAVEMENT IF EXISTING IS A THICKER SECTION.

CURBS, SIDEWALKS, AND DRIVEWAYS

18. UTILITY LIDS, MANHOLE COVERS, VALVE COVERS (THAT ARE NOT SHOWN ON THESE CONSTRUCTION DRAWINGS) ARE NOT ALLOWED IN THE THROUGH PEDESTRIAN ZONE. THEY MUST BE PLACED IN THE SIDEWALK FURNISHING OR BUILDING ZONE IF THE PROPER PBOT UTILITY PERMIT HAS BEEN SECURED.
19. FULL HEIGHT CURBS SHALL BE CONSTRUCTED AT ALL LOCATIONS UNLESS A NEW DRIVEWAY IS CONSTRUCTED AT THE SAME TIME AS THE CURB.
20. ALL SIDEWALK CONTRACTION JOINTS SHALL BE PER SECTION 00759.49 - "CONTRACTION JOINTS" OF THE STANDARD CONSTRUCTION SPECIFICATION AND CITY STANDARD DWG P-551.
21. NO FUTURE DRIVEWAYS SHALL BE CONSTRUCTED UNLESS THERE IS A BUILDING PERMIT ISSUED FOR AN ON-SITE PARKING SPACE, OR OTHER APPROVAL FROM BDS.
22. CONTRACTOR MAY USE CONCRETE OR ASPHALT CONCETE FROM THE PRE-APPROVED MIX DESIGNS LIST IF AVAILABLE. IF NOT, THE CONTRACTOR WILL NEED TO SUBMIT A MIX DESIGN FOR APPROVAL.
23. USE ONLY APPROVED DETECTABLE WARNING DEVICES FROM THE CITY'S CONSTRUCTION PRODUCTS LIST (CPL).
24. ALL DRIVEWAYS ARE REQUIRED TO HAVE A MINIMUM OF 3 FEET OF HARD SURFACING BEHIND SIDEWALK (SEE STD DWG P-536).

STORM SEWER PIPE

25. THE ACCEPTABLE INLET LEAD PIPE MATERIALS ARE AS FOLLOWS:
 - C.S.P. ASTM C_14, CLASS 3 WITH CLASS 'B' BEDDING AND BACKFILL
 - HDPE D 3035 SDR 26 WITH FLEXIBLE PIPE BEDDING AND GRANULAR BACKFILL
 - PVC ASTM D 3034 SDR 35 WITH FLEXIBLE PIPE BEDDING AND GRANULAR BACKFILL.
 - PIPE BEDDING AND BACKFILL PER STANDARD PLAN NOS. P-100 AND P-101.
 - SURFACING PER STD. DWG. P-515, P-516 AND P-517.
26. FOR PLUGGING OF ABANDONED SEWER PIPES, AND FILLING ABANDONED PIPES, MANHOLES, AND CATCH BASINS, SEE SECTIONS 00490.43 AND 00490.44 RESPECTIVELY OF THE STANDARD SPECIFICATION.

CATCH BASINS AND INLETS

27. ALL CATCH BASIN AND INLETS SHALL BE CAST-IN-PLACE. CONSTRUCT CAST-IN-PLACE CATCH BASINS AND INLETS ACCORDING TO SECTION 00470.

TRAFFIC AND PARKING CONTROL

28. THE CONTRACTOR MUST ACQUIRE AN APPROVED TEMPORARY STREET USE PERMIT (TSUP) PRIOR TO CLOSURE OF ANY STREET, SIDEWALK, TRAVEL LANE OR PARKING LANE. THE TSUP IS ACQUIRED FROM THE PERMIT CENTER LOCATED AT 1900 SW 4TH AVENUE.
29. THE CONTRACTOR SHALL NOT REMOVE OR COVER ANY TRAFFIC CONTROL SIGNS, PAVEMENT MARKINGS, OR BARRICADES THAT ARE NOT IDENTIFIED ON THE APPROVED TEMPORARY TRAFFIC CONTROL PLAN.
30. THE CONTRACTOR SHALL MAINTAIN ALL NECESSARY TEMPORARY TRAFFIC CONTROL DEVICES (INCLUDING BUT NOT LIMITED TO THE FOLLOWING - SIGNS, PAVEMENT MARKINGS, AND BARRICADES) UNTIL THE PERMANENT TRAFFIC CONTROL DEVICES ARE INSTALLED.

31. WHEN WORK INTERFERES WITH THE OPERATION OF A TRIMET BUS OR BUS STOP, CONTACT TRIMET AT 503-962-4949 A MINIMUM OF 14 DAYS PRIOR TO CLOSING OR DISRUPTING TRIMET'S OPERATION.

32. THE CONTRACTOR SHALL INSTALL OR REINSTALL ALL PERMANENT TRAFFIC CONTROL SIGNING, CURB AND PAVEMENT MARKINGS, AND BARRICADES.

33. THE CONTRACTOR SHALL SUBMIT MATERIALS LIST FOR APPROVAL 14 DAYS PRIOR TO INSTALLING PERMANENT TRAFFIC CONTROL SIGNING, CURB AND PAVEMENT MARKINGS, AND BARRICADES.

34. ALL NEW SIGN MATERIALS SHALL COMPLY WITH SECTION 2910 OF THE CITY OF PORTLAND STANDARD CONSTRUCTION SPECIFICATIONS. ALL SIGNS SHALL BE TYPE III OR IV BACKGROUND SHEETING ON ALUMINUM SIGN BLANKS. SIGN TYPES FOR EACH SIGN, AS SPECIFIED IN SECTION 2910.02, ARE NOTED IN THE PLANS.

35. SIGNS AND SIGN POSTS REMOVED BY THE PERMITEE OR ITS AGENT SHALL BE DELIVERED TO THE BUREAU OF MAINTENANCE, ALBINA YARD. CONTACT JIM BUHLER AT 503-823-4056 TO ARRANGE A DELIVERY TIME. REMOVE ALL SIGNS, CONCRETE AND DEBRIS FROM THE POST PRIOR TO DELIVERY.

36. ALL CURB AND PAVEMENT MARKING MATERIALS SHALL BE ON THE CITY'S CONSTRUCTION PRODUCTS LIST (CPL) OR THE STATE'S QUALIFIED PRODUCTS LIST (QPL). ALL MATERIALS SHALL BE INSTALLED IN CONFORMANCE WITH THE MANUFACTURERS APPROVED APPLICATION PROCEDURE.

37. ALL LONGITUDINAL LINE WORK TO BE METHOD B (NON-PROFILE) EXTRUDED THERMOPLASTIC, 120 MILS THICK.

38. ALL TRANSVERSE LINE WORK, LEGENDS, SYMBOLS, AND ARROWS SHALL BE TYPE "B-HS" PREFORMED THERMOPLASTIC. BIKE LANE STENCILS, GREEN BICYCLE LANE MARKINGS, AND BIKE PATH RAILROAD MARKINGS SHALL BE 90 MILS THICK. ALL OTHER TRANSVERSE PAVMENT MARKINGS SHALL BE 120-125 MILS THICK.

39. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY CURB OR PAVEMENT MARKINGS DAMAGED, WORN OUT OR REMOVED DUE TO CONTRACTOR'S OPERATION.

40. IN METERED DISTRICTS: ALL PARKING CONTROL SIGNING, METERS, POSTS AND PAVEMENT STRIPING & MARKINGS WILL BE INSTALLED BY CITY FORCES. NOTIFY PARKING CONTROL AT 503-823-7275. ALL COSTS ASSOCIATED WITH THIS WORK WILL BE CHARGED TO THE PERMIT. OUTSIDE METERED DISTRICTS: PARKING CONTROL SIGNING WILL BE INSTALLED BY THE CONTRACTOR. CONTACT PARKING CONTROL AT 503-823-7275 14 DAYS PRIOR TO INSTALLATION TO IDENTIFY EXACT SIGN LOCATIONS.

STREET LIGHTING

41. UNDERGROUND CONDUITS AND WIRES FOR STREET LIGHT INSTALLATION IS REQUIRED OR IS DESIRED, THE PERMITTEE IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE INSTALLATION, AND COORDINATION OF INSTALLATION WITH THE APPROPRIATE UTILITY.

TREES

42. ALL TREE REMOVAL SHALL COMPLY WITH THE **FEDERAL MIGRATORY BIRD TREATY ACT**. SEE THE SPECIAL PROVISIONS FOR REQUIREMENTS PRIOR TO CUTTING OF ANY TREE.
43. ALL GROUND DISTURBANCES NEAR TREES REQUIRES ROOT INSPECTION!! CONTACT URBAN FORESTRY (URBAN FORESTRY AT 503-823-8733. FOR ROOT INSPECTIONS PRESS 3) PRIOR TO ALL EXCAVATIONS ADJACENT TO TREES. CONSULTATION WITH THE URBAN FORESTER IS REQUIRED BEFORE CUTTING OF ROOTS.
44. FOR ALTERNATE TREE SPECIES OR ALTERNATE TREE PLANTING LOCATION APPROVAL, (PRIOR TO PLANTING), CONTACT URBAN FORESTRY AT 503-823-8733; TO LEAVE A MESSAGE FOR THE TREE INSPECTOR PRESS 5.

RETAINING WALLS

45. THE PERMITTEE OR ITS AGENT SHALL PROVIDE QUALITY ASSURANCE FOR ALL STRUCTURES AND STRUCTURAL EMBANKMENTS BY RETAINING THE SERVICES OF A COMPETENT CERTIFIED PROFESSIONAL TO MAKE ALL FIELD INSPECTIONS, MATERIAL TESTING AND REPORTS IN ACCORDANCE WITH THE APPROVED GEOTECHNICAL REPORT, THE CITY OF PORTLAND STANDARD CONSTRUCTION SPECIFICATIONS, ODOT MANUAL OF FIELD TEST PROCEDURES, ODOT NON-FIELDED TESTED MATERIALS ACCEPTANCE GUIDE, AND ODOT CONSTRUCTION MANUAL.

THE PERMITTEE OR ITS AGENT SHALL SUBMIT THE INSPECTION REPORTS AND TEST RESULTS TO THE BUREAU OF TRANSPORTATION. SUBMIT TO THE FOLLOWING:

TODD LILES
 BUREAU OF TRANSPORTATION
 1120 SW 5TH AVENUE, SUITE 800
 PORTLAND, OR 97204
 FAX: 503-823-8992
 EMAIL: TODD.LILES@PORTLANDOREGON.GOV

EROSION CONTROL

46. EROSION/SEDIMENTATION CONTROL (ESC) IS REQUIRED ON THIS PROJECT. IMPLEMENTATION OF THE ESC AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE PERMITTEE OR ITS AGENT UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED. THE PERMITTEE OR ITS AGENT SHALL PROVIDE INLET PROTECTION TO DOWNSTREAM INLETS FROM THE SITE PER THE EROSION CONTROL MANUAL [MARCH 2008]. CATCH BASIN AND STORM DRAIN INLET PROTECTION SHALL BE INSTALLED PER DETAIL DRAWINGS 4.3-B AND 4.3-G.

47. AN EROSION/SEDIMENTATION CONTROL (ESC) PLAN IS REQUIRED ON THIS PROJECT. THE IMPLEMENTATION OF THE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE PERMITTEE OR ITS AGENT UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND THE VEGETATION/LANDSCAPING IS ESTABLISHED.

48. CONSTRUCTION OF ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH OAR 340-41-55 AND THE CITY OF PORTLAND EROSION CONTROL MANUAL [MARCH 2008].

49. APPROVAL OF THIS EROSION / SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF ANY OTHER PROPOSED PROJECT DESIGN ELEMENTS.

50. THE PERMITTEE OR ITS AGENT SHALL CLEARLY MARK WITH SURVEY FLAGGING THE CLEARING LIMITS OF THE WORK ZONE SHOWN ON THIS PLAN PRIOR TO BEGINNING EARTHWORK. DURING CONSTRUCTION, THE PERMITTEE OR ITS AGENT SHALL MAINTAIN THE MARKED CLEARING LIMITS AND SHALL NOT DISTURB THE AREAS OUTSIDE OF THE WORK ZONE.

51. THE ESC MEASURES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. DURING CONSTRUCTION, THE PERMITTEE OR ITS AGENT SHALL INSPECT THESE MEASURES DAILY AND UPGRADE THEM TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT LEAVE THE WORK ZONE.

52. INSTALL A "GRAVEL CONSTRUCTION ENTRANCE" AT EACH POINT OF ENTRY TO THE CONSTRUCTION SITE ACCORDING TO DETAIL DRAWING 4.2-A OF THE EROSION CONTROL MANUAL [MARCH 2008].

FOR GRADING PERMITS AND STRUCTURAL FILLS

53. THE PERMITTEE OR ITS AGENT SHALL RETAIN THE SERVICES OF A GEOTECHNICAL ENGINEER TO MAKE ALL INSPECTIONS, TO PROVIDE MATERIAL TESTING SERVICES, AND TO CERTIFY THAT THE PLACED STRUCTURAL FILLS MEET THE EMBANKMENT SPECIFICATION RECOMMENDED IN THE GEOTECHNICAL REPORT, AND SECTION 00330 - "EARTHWORK" OF THE STANDARD CONSTRUCTION SPECIFICATION.

54. THE PERMITTEE OR ITS AGENT SHALL ADHERE TO THE RECOMMENDATIONS GIVEN IN THE GEOTECHNICAL REPORT PREPARED BY GEODESIGN.

55. SCHEDULE AN IN-FIELD PRE-EARTHWORK MEETING WITH CITY STREET CONSTRUCTION INSPECTOR (PBOT), BUREAU OF DEVELOPMENT SERVICES (BDS) REPRESENTATIVE, GEOTECHNICAL ENGINEER, AND OTHER APPROPRIATE PARTIES PRIOR TO COMMENCING WORK. NOTIFY STREET CONSTRUCTION/INSPECTION 4 CALENDAR DAYS PRIOR TO THE MEETING. [503.823.7012]

56. PREPARE SUBGRADE BY REMOVING ALL SURFACE VEGETATION, DEBRIS, AND TOPSOIL PRIOR TO THE PLACEMENT OF ANY FILL MATERIAL IN A FUTURE RIGHT-OF-WAY AREA.

57. THE GEOTECHNICAL ENGINEER SHALL SEND TEST AND INSPECTION RESULTS TO:
 TODD LILES, BUREAU OF TRANSPORTATION
 1120 SW 5TH AVENUE, SUITE 800
 PORTLAND, OR 97204-1971
 OR VIA EMAIL TO:
 TODD.LILES@PORTLANDOREGON.GOV

FOR JOINT PBOT/BES PERMITS ONLY

58. DISPOSE OF ALL SEWER TRENCH SPOIL MATERIAL AT A PROPER LANDFILL, OR SHALL OBTAIN A PERMIT FROM THE BUREAU OF DEVELOPMENT SERVICES BEFORE BEING DISPOSED OF ON-SITE. A COPY OF THE GRADING PERMIT AND PLAN SHALL BE PROVIDED TO THE BUREAU OF ENVIRONMENTAL SERVICES FOR CONSTRUCTION INSPECTION AT THE PRE-CONSTRUCTION MEETING. ALL WORK OUTSIDE THE PUBLIC RIGHT-OF-WAY, INCLUDING CUTS, FILLS, GRADING, AND CLEARING MAY REQUIRE PERMITS FROM THE BUREAU OF DEVELOPMENT SERVICES.

59. FOUNDATION STABILIZATION MAY BE NECESSARY AS PER CITY OF PORTLANDS STANDARD CONSTRUCTION SPECIFICATIONS AND APPROVED BY BES.

60. MARK THE ENDS OF ALL STUB CUTS AND LATERALS WITH CONTINUOUS PRESSURE TREATED 2" X4" LUMBER. THE TOP 12" SHALL BE PAINTED WHITE AND STENCILED WITH BLACK "ST" FOR STORM OR PAINTED GREEN AND STENCILED BLACK "SS" FOR SANITARY, AND WITH PIPE SIZE, MATERIAL TYPE, AND PIPE DEPTH. BURY THE 2" X 4" LUMBER TO THE STUB OR LATERAL.

61. PROPERLY SHORE AND BRACE ALL SEWER TRENCH LINES AND EXCAVATIONS TO PREVENT CAVING AS REQUIRED BY OREGON OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OR-OSHA) AND SECTION 00510 - "STRUCTURE EXCAVATION AND BACKFILL" OF THE STANDARD CONSTRUCTION SPECIFICATIONS.

62. THE PERMITTEE OR ITS AGENT SHALL BE RESPONSIBLE FOR THE OPERATIONS AND MAINTENANCE OF THE STORMWATER FACILITIES AS PRESCRIBED IN THE APPROVED "OPERATIONS & MAINTENANCE" PLAN FOR 2 YEARS AFTER ITS ACCEPTANCE BY THE CITY.

STORMWATER NARRATIVE

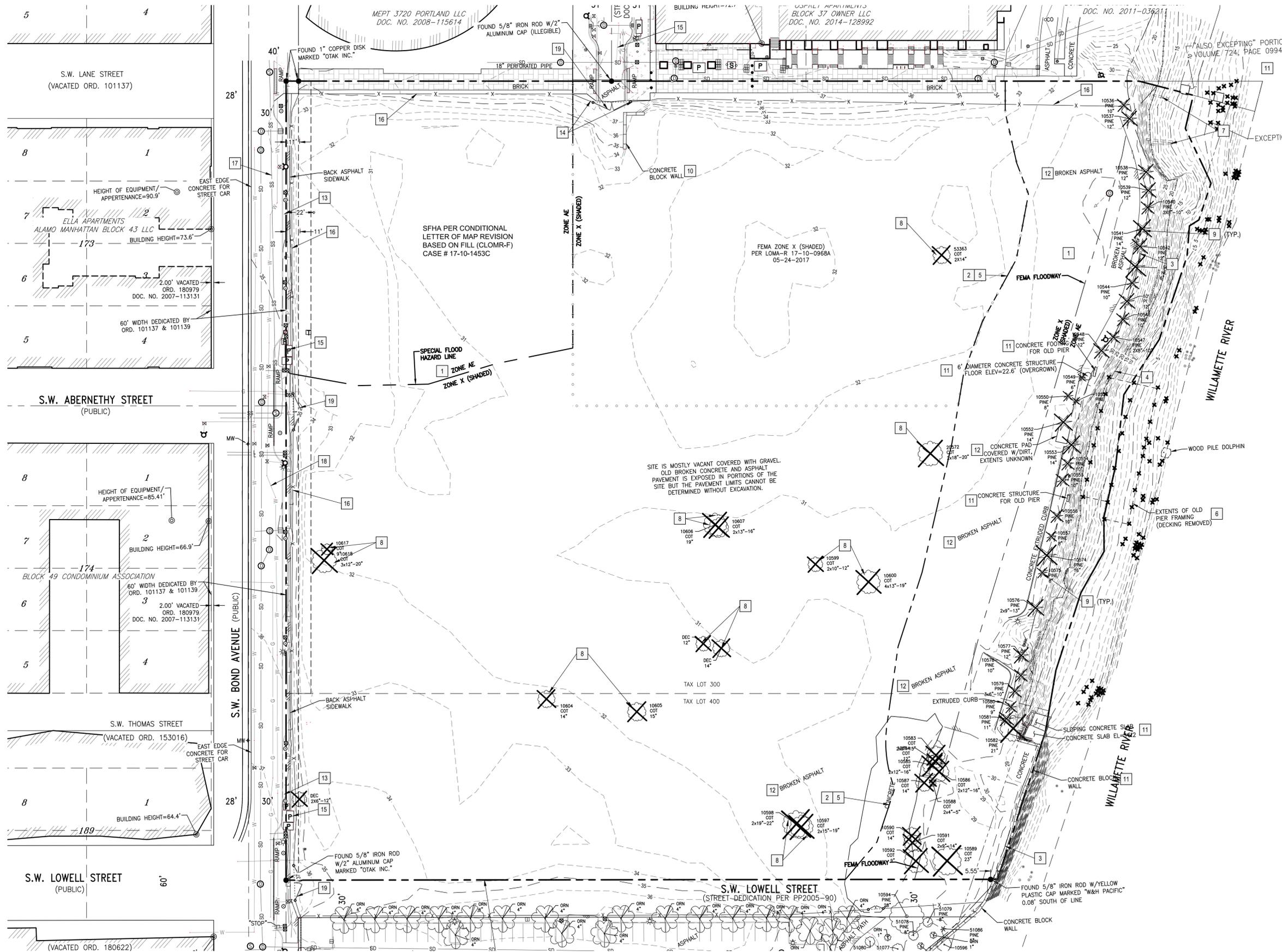
THE PROPOSED STORMWATER MANAGEMENT SYSTEM, DESIGNED IN ACCORDANCE WITH THE CITY OF PORTLAND'S STORMWATER MANAGEMENT MANUAL AND SEWER AND DRAINAGE FACILITIES DESIGN MANUAL, WILL INCLUDE LOW IMPACT DEVELOPMENT (LID) PLANTERS FOR WATER QUALITY TREATMENT AND A PIPED CONVEYANCE SYSTEM WHICH CONNECTS TO AN EXISTING STORM SEWER IMMEDIATELY SOUTH OF SW LOWELL STREET. LID FLOW-THROUGH PLANTERS WERE SIZED USING THE CITY'S PRESUMPTIVE APPROACH CALCULATOR (PAQ) TOOL MEET POLLUTION REDUCTION REQUIREMENTS BY FILTERING STORM WATER THROUGH THE TOPSOIL MIX SPECIFIED BY BES. THE PROPOSED IMPROVEMENTS MEET THE CRITERIA FOR EXEMPTION FROM FLOW CONTROL RUNOFF, PER SECTION 13.2 OF THE STORMWATER MANAGEMENT MANUAL, AS THE STORM LINE DISCHARGES DIRECTLY TO THE WILLAMETTE RIVER THROUGH THE EXISTING SW LOWELL STREET OUTFALL. THE STORMWATER CONVEYANCE SYSTEM HAS BEEN SIZED TO CONVEY AND CONTAIN THE 10-YEAR, 5-MINUTE EVENT WITHOUT SURCHARGING AND THE 25-YEAR, 5-MINUTE STORM EVENT WITH AT LEAST 6 INCHES OF FREEBOARD.

LEGEND

STORM DRAIN	
STORM DRAIN MANHOLE	⊕
STORM DRAIN DRY WELL	⊗
STORM DRAIN CLEAN OUT	○
STORM DRAIN CATCH BASIN	▣ ⊕ ▤
STORM DRAIN DROP INLET	⊞
STORM DRAIN AREA DRAIN	□ ●
STORM DRAIN MAIN	—SD—
STORM DRAIN LATERAL	—SD—SD—
PRIVATE STORM LINE	—PSD—PSD—
LIDA PLANTERS	▣ ●
SAND FILTER	▣ ●
SANITARY SEWER	
SANITARY SEWER MANHOLE	⊕
SANITARY SEWER CLEAN OUT	○
SANITARY SEWER MAIN	—SS—
SANITARY SEWER LATERAL	—SS—SS—
PRIVATE SEWER LINE	—PS—PS—
WATER	
WATER VALVE	⊕
WATER BLOW-OFF	↑
WATER METER (VAULT)	▣
WATER MAIN	—W—
WATER MAIN (BY PWB)	—W—
FIRE HYDRANT	⊕
FIRE DEPT. CONNECTION	⊕
POST INDICATOR VALVE	●
DOUBLE CHECK VALVE	▣ DCVA
FIRE WATER MAIN	—FW—FW—
ELECTRIC	
ELECTRIC JUNCTION BOX	⊕
UTILITY POLE & GUY	⊕ ——— ⊕
UTILITY POLE WITH LIGHT	⊕ ⊕ ⊕
ELECTRIC LINE	—P—
UNDERGROUND UTILITY TRENCH	— — — — —
NATURAL GAS	
GAS VALVE	⊕
GAS BLOW OFF	⊕
GAS METER	⊕
GAS LINE	—G—
TELEPHONE	
TELEPHONE MANHOLE	⊕
TELEPHONE RISER	⊕
TELEPHONE POLE	⊕
UNDERGROUND TELEPHONE	—T—
OVERHEAD LINES	—OHL—
CABLE TV / COMM	
CABLE RISER	⊕
UNDERGROUND CABLE TV	—TV—
UNDERGROUND COMM	—COM—
STREET LIGHTING	
STREET LIGHT POLE	⊕
STREET LIGHT JUNCTION BOX	⊕
STREET LIGHT CONTROLLER	⊕
UNDERGROUND CONDUIT	— — — — —

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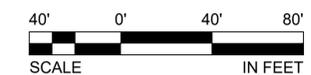
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EXISTING CONDITIONS AND DEMO NOTES

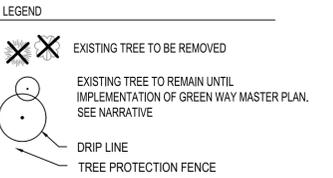
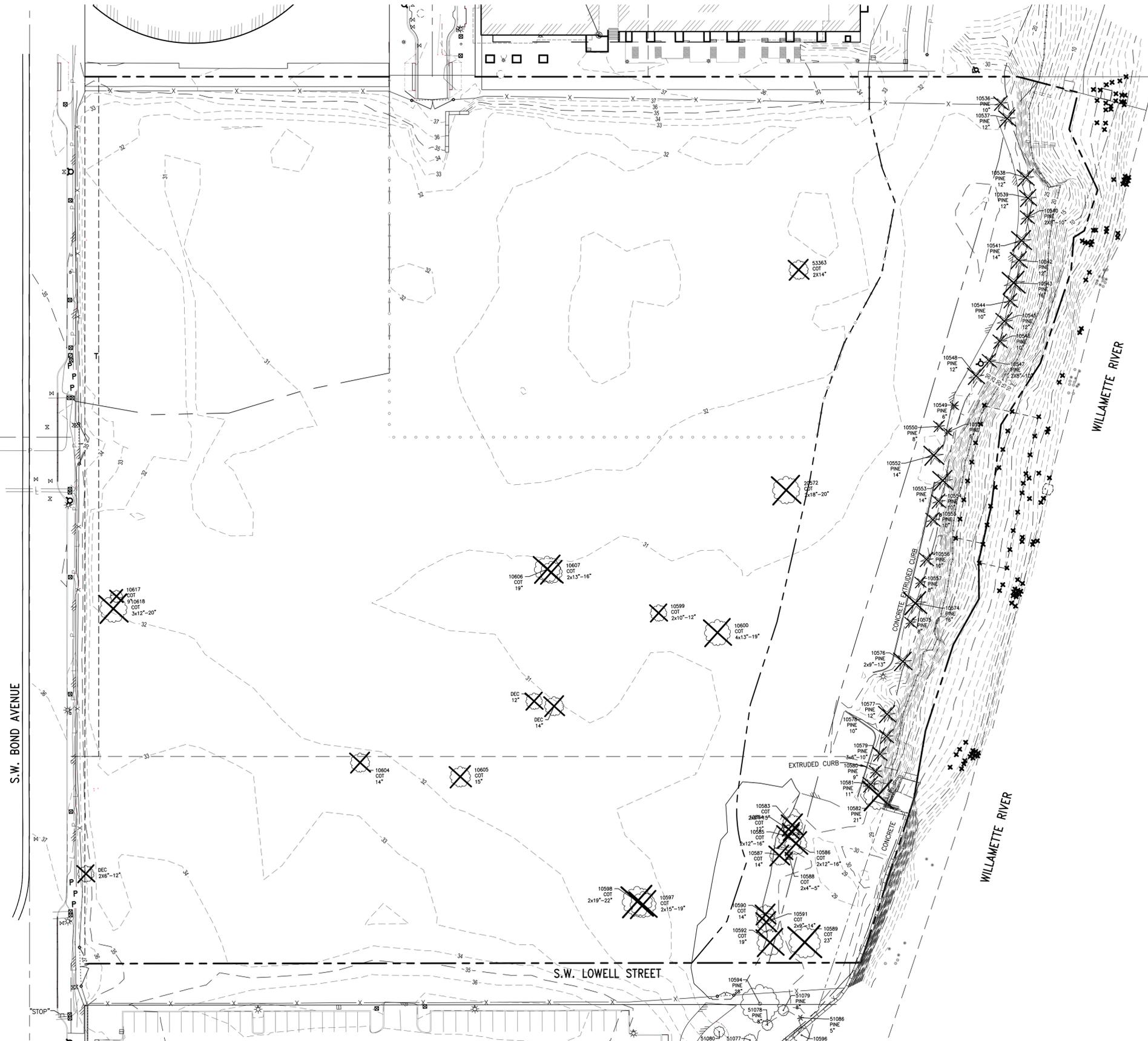
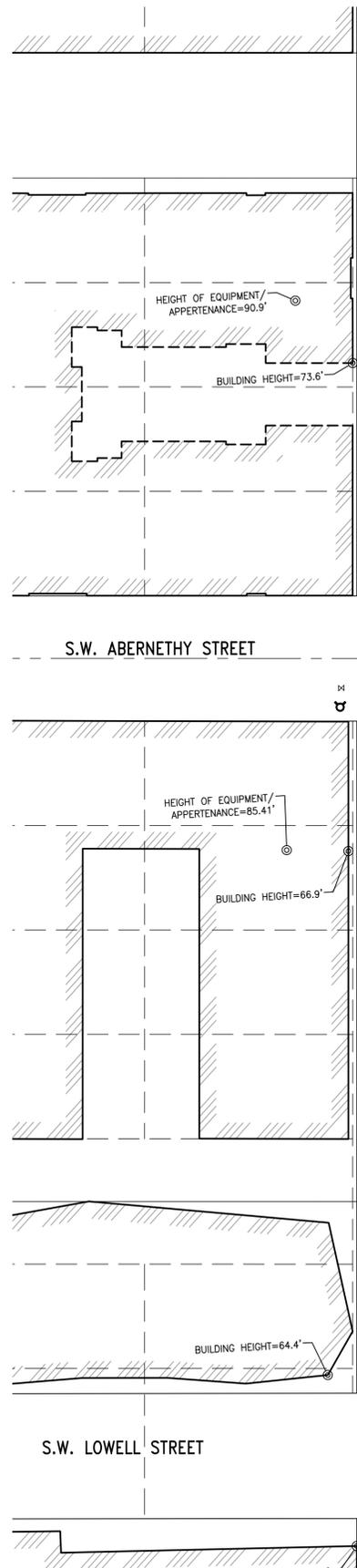
- 1 FEMA 100-YEAR FLOODWAY.
- 2 WILLAMETTE GREENWAY BOUNDARY.
- 3 TOP OF BANK 2002 SURVEY (TYPICAL).
- 4 ORDINARY HIGH WATER (OHW, ELEVATION 18.2).
- 5 LIMITS OF DISTURBANCE FOR BLOCK WORK.
- 6 PILINGS (TYPICAL) TO BE REMOVED.
- 7 EXISTING STORM DRAIN OUTFALLS TO REMAIN.
- 8 TREES WITHIN LIMITS OF DISTURBANCE TO BE REMOVED.
- 9 TREES WITHIN THE GREENWAY TO REMAIN UNDISTURBED.
- 10 CONCRETE SLABS OR STRUCTURES TO BE REMOVED.
- 11 CONCRETE SLABS OR STRUCTURES TO REMAIN.
- 12 THE ENTIRE SITE HAS AREAS OF AC PAVEMENT OR CONCRETE COVERED WITH SOIL AND VEGETATION. EXPOSE AND COMPLETELY REMOVE.
- 13 THE SW BOND AVE PERMANENT IMPROVEMENTS INCLUDING STREET, CURB, AND PUBLIC UTILITIES HAVE BEEN CONSTRUCTED AS PART OF THE WATERFRONT SOUTH NO. 2 DEVELOPMENT AND ARE TO REMAIN UNLESS OTHERWISE NOTED. THE TEMPORARY ASPHALT SIDEWALK ON THE EAST SIDE OF BOND SHALL BE REMOVED AND REPLACED WITH A PERMANENT CONCRETE WALK.
- 14 THE EXISTING STREET IMPROVEMENTS (IN RIVER PARKWAY) ARE TO REMAIN OR TO BE REPLACED IN KIND.
- 15 EXISTING FRANCHISE UTILITIES (PGE, CENTURYLINK, COMCAST, AND NW NATURAL) TO REMAIN.
- 16 EXISTING TEMPORARY FENCE TO BE REMOVED.
- 17 EXISTING 15-INCH SANITARY SEWER PIPE TO REMAIN.
- 18 EXISTING 12-INCH DUCTILE IRON WATER MAIN TO REMAIN.
- 19 EXISTING GATE TO BE REMOVED.

NOTE: ELEVATIONS ARE BASED ON CITY OF PORTLAND DATUM.

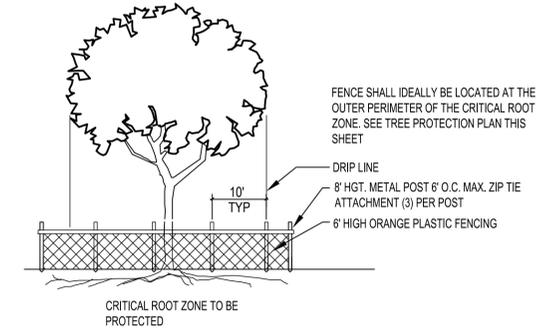


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TOTAL	658' CALIPER : 50 TREES
REMOVED	658' CALIPER : 50 TREES



- NOTE:
- 1) NOTIFY THE OWNER'S ARBORIST BEFORE CONDUCTING ANY WORK WITHIN THE CRITICAL ROOT ZONE OF TREES PROPOSED TO REMAIN.
 - 2) FENCES SHALL BE IN PLACE PRIOR TO BEGINNING CONSTRUCTION! SEE GRADING PLAN

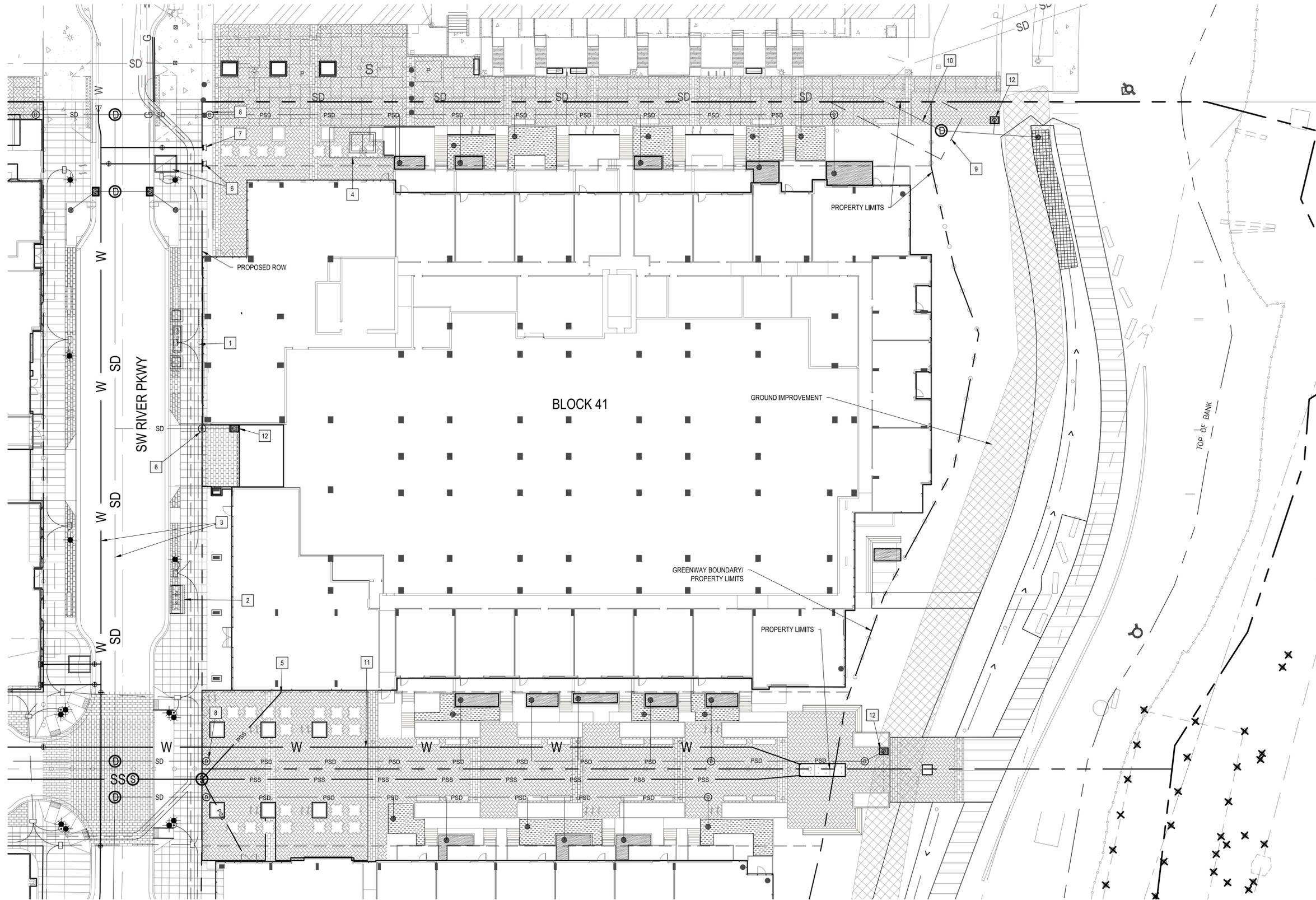
TREE PROTECTION DETAIL
(NOT TO SCALE)

- NOTES
1. NO PERSON MAY CONDUCT ANY ACTIVITY BEYOND THE PROTECTED AREA OF ANY TREE DESIGNATED TO REMAIN, INCLUDING, BUT NOT LIMITED TO, PARKING EQUIPMENT, PLACING SOLVENTS WITHIN THE AREA, STORING BUILDING MATERIAL AND SOIL DEPOSITS, DUMPING CONCRETE WASHOUT AND LOCATING BURN HOLES. WHERE EXCAVATION FOR NEW CONSTRUCTION IS REQUIRED WITHIN THE CRITICAL ROOT ZONE, HAND CLEAR AND EXCAVATE TO MINIMIZE DAMAGE TO ROOT SYSTEMS. USE NARROW-TINE SPADING FORKS, COMB SOIL TO EXPOSE ROOTS AND CLEANLY CUT ROOTS AS CLOSE TO EXCAVATION AS POSSIBLE. COVER EXPOSED ROOTS WITH BURLAP AND WATER REGULARLY.
 2. DURING CONSTRUCTION, NO PERSON SHALL ATTACH ANY OBJECT TO ANY TREE DESIGNATED FOR PROTECTION.
 3. MAINTAIN TREES THROUGHOUT CONSTRUCTION PERIOD BY WATERING AND FERTILIZING.
 4. MAINTAIN THE PROTECTIVE BARRIERS IN PLACE UNTIL THE ARBORIST AUTHORIZES THEIR REMOVAL OR A FINAL CERTIFICATE OF OCCUPANCY IS ISSUED, WHICHEVER OCCURS FIRST.
 5. ANY LANDSCAPING DONE IN THE PROTECTED ZONE SUBSEQUENT TO THE REMOVAL OF THE BARRIERS SHALL BE ACCOMPLISHED WITH LIGHT MACHINERY OR HAND LABOR.
 6. TREES TO BE RETAINED SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. CLEARING OPERATIONS SHALL BE CONDUCTED SO AS TO EXPOSE THE SMALLEST PRACTICAL AREA OF SOIL TO EROSION FOR THE LEAST POSSIBLE TIME.
 7. PRUNE PROTECTED TREES AS REQUIRED TO AVOID DAMAGE FROM CONSTRUCTION. PRIOR TO ANY PROPOSED PRUNING CONTACT AND COORDINATE WITH THE OWNER'S ARBORIST. PRUNE PURSUANT TO NATIONAL ARBORIST ASSOCIATION STANDARDS.
 8. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.



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UTILITY NOTES

- 1 INSTALL NEW 1022 PGE VAULT (BACKBONE). COORDINATE WITH PGE.
- 2 INSTALL NEW 5106 PGE VAULT (BACKBONE). COORDINATE WITH PGE.
- 3 PROPOSED PUBLIC WORKS UTILITIES UNDER SEPARATE PUBLIC WORKS PERMIT.
- 4 INSTALL NEW 1024 PGE VAULT (BUILDING TRANSFORMER). COORDINATE WITH PGE.
- 5 INSTALL SEWER LATERAL FOR BUILDING SERVICE.
- 6 INSTALL 687 VAULT FOR METER AND WATER SERVICE TO BUILDING.
- 7 INSTALL 8" FIRE SERVICE FOR BUILDING.
- 8 INSTALL STORM LATERAL FOR BUILDING SERVICE.
- 9 PROPOSED PUBLIC STORM DRAIN EASEMENT.
- 10 PROPOSED PUBLIC STORM LINE (UNDER PWP PERMIT).
- 11 PROPOSED PRIVATE WATER LINE FOR WATER FEATURE.
- 12 PROPOSED PRIVATE STORMFILTER CATCH BASIN.

LEGEND

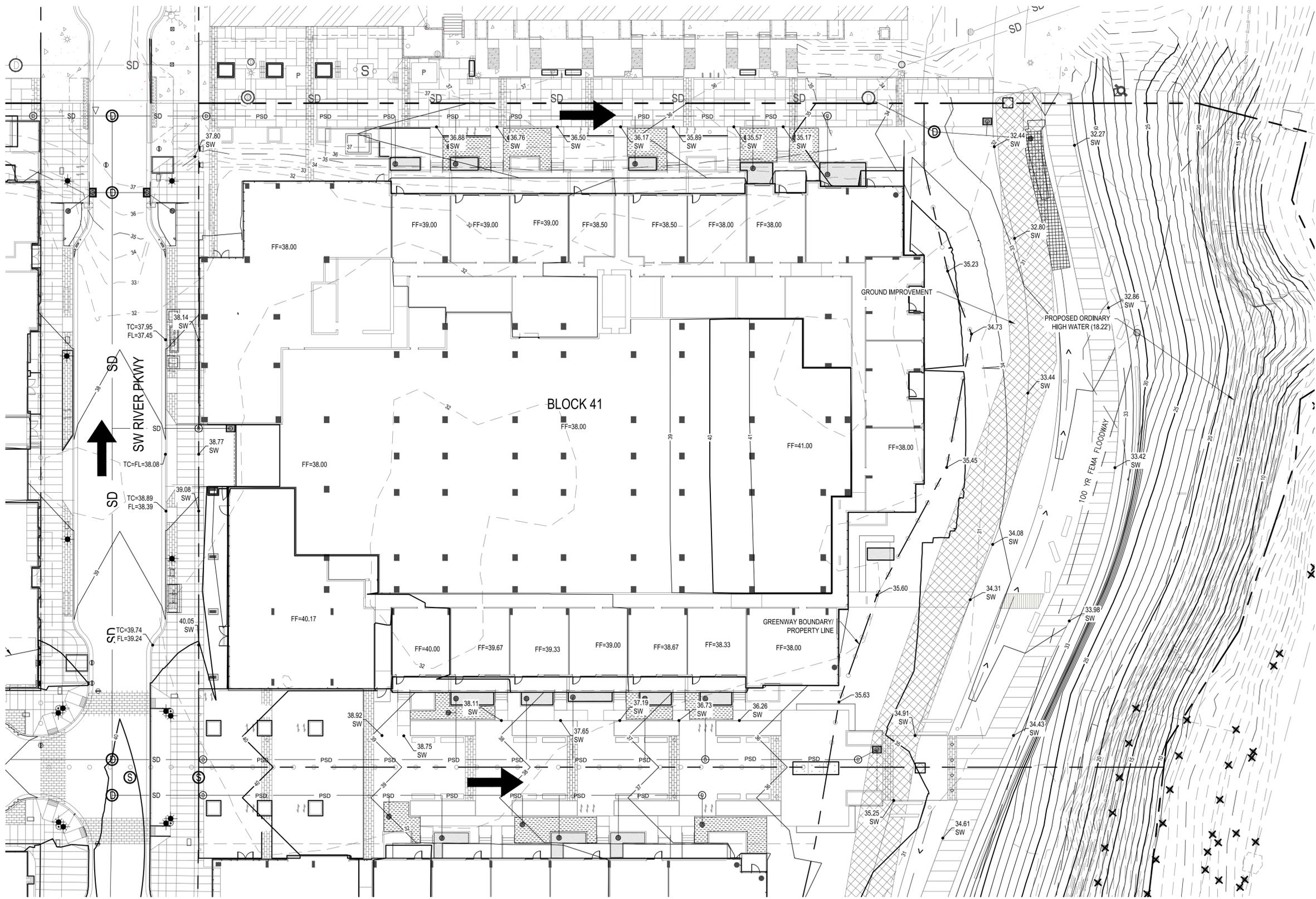
PUBLIC WATER LINE	W
PUBLIC SANITARY SEWER	SS
PUBLIC STORM DRAIN	SD
PRIVATE SEWER LINE	PSS
PRIVATE STORM LINE	PSD
FRANCHISE UTILITY CONDUIT	---
FRANCHISE UTILITY VAULTS	□
STORM DRAIN MANHOLE	⊕
SANITARY SEWER MANHOLE	⊙
STORMWATER PLANTER (ROOF TREATMENT)	▬
STORMWATER PLANTER (AT GRADE TREATMENT)	▨
SWALE	▧
CONVEYANCE CHANNEL	—>—
TRENCH DRAIN	- - - -



XREF LIST
 Ltscale: 40
 Resolved
 C19050X002
 C19050X230
 C19050X600
 S19050X190
 C19050X430
 C19050X101
 L19050X230
 O19050X440

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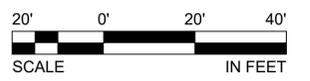
GRADING LEGEND

- EXISTING 1' CONTOUR
- EXISTING 5' CONTOUR
- PROPOSED 1' CONTOUR
- PROPOSED 5' CONTOUR
- PROPOSED STORM LINE
- PROPOSED PRIVATE STORM LINE
- 100 YEAR FLOOD WAY
- DRAINAGE FLOW DIRECTION
- PROPOSED FF ELEVATION
- SPOT ELEVATION
- STORMWATER PLANTER (ROOF TREATMENT)
- STORMWATER PLANTER (AT GRADE TREATMENT)
- SWALE

NOTE: ELEVATIONS ARE BASED ON CITY OF PORTLAND DATUM.

SPOT ELEV ABBREVIATIONS

- SW SIDEWALK / PATH
- FL FLOW LINE
- TC TOP OF CURB



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STORMWATER NOTES

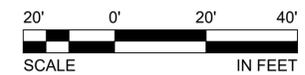
- 1 PROPOSED PRIVATE STORMWATER PLANTER.
- 2 PROPOSED STORMWATER LATERAL CONNECTION.
- 3 PROPOSED STORMFILTER CATCH BASIN.

STORMWATER NARRATIVE

THE PROPOSED STORMWATER MANAGEMENT SYSTEM, DESIGNED IN ACCORDANCE WITH THE CITY OF PORTLAND'S STORMWATER MANAGEMENT MANUAL AND SEWER AND DRAINAGE FACILITIES DESIGN MANUAL, WILL INCLUDE LOW IMPACT DEVELOPMENT (LID) PLANTERS, SWALES, AND STORMFILTER MANUFACTURED TREATMENT FOR WATER QUALITY TREATMENT. A PIPED CONVEYANCE SYSTEM WILL CONNECT TO AN EXISTING STORM SEWER IMMEDIATELY SOUTH OF SW LOWELL STREET. LID LINED PLANTERS AND SWALES WERE SIZED USING THE CITY'S PRESUMPTIVE APPROACH CALCULATOR (PAC) TOOL MEET POLLUTION REDUCTION REQUIREMENTS BY FILTERING STORM WATER THROUGH THE TOPSOIL MIX SPECIFIED BY BES. THE PROPOSED IMPROVEMENTS MEET THE CRITERIA FOR EXEMPTION FROM FLOW CONTROL RUNOFF, PER SECTION 13.4 OF THE STORMWATER MANAGEMENT MANUAL, AS THE STORM LINE DISCHARGES DIRECTLY TO THE WILLAMETTE RIVER THROUGH THE EXISTING SW LOWELL STREET OUTFALL. THE STORMWATER CONVEYANCE SYSTEM HAS BEEN SIZED TO CONVEY AND CONTAIN THE 10-YEAR, 5-MINUTE EVENT WITHOUT SURCHARGING AND THE 25-YEAR, 5-MINUTE STORM EVENT WITH AT LEAST 6 INCHES OF FREEBOARD.

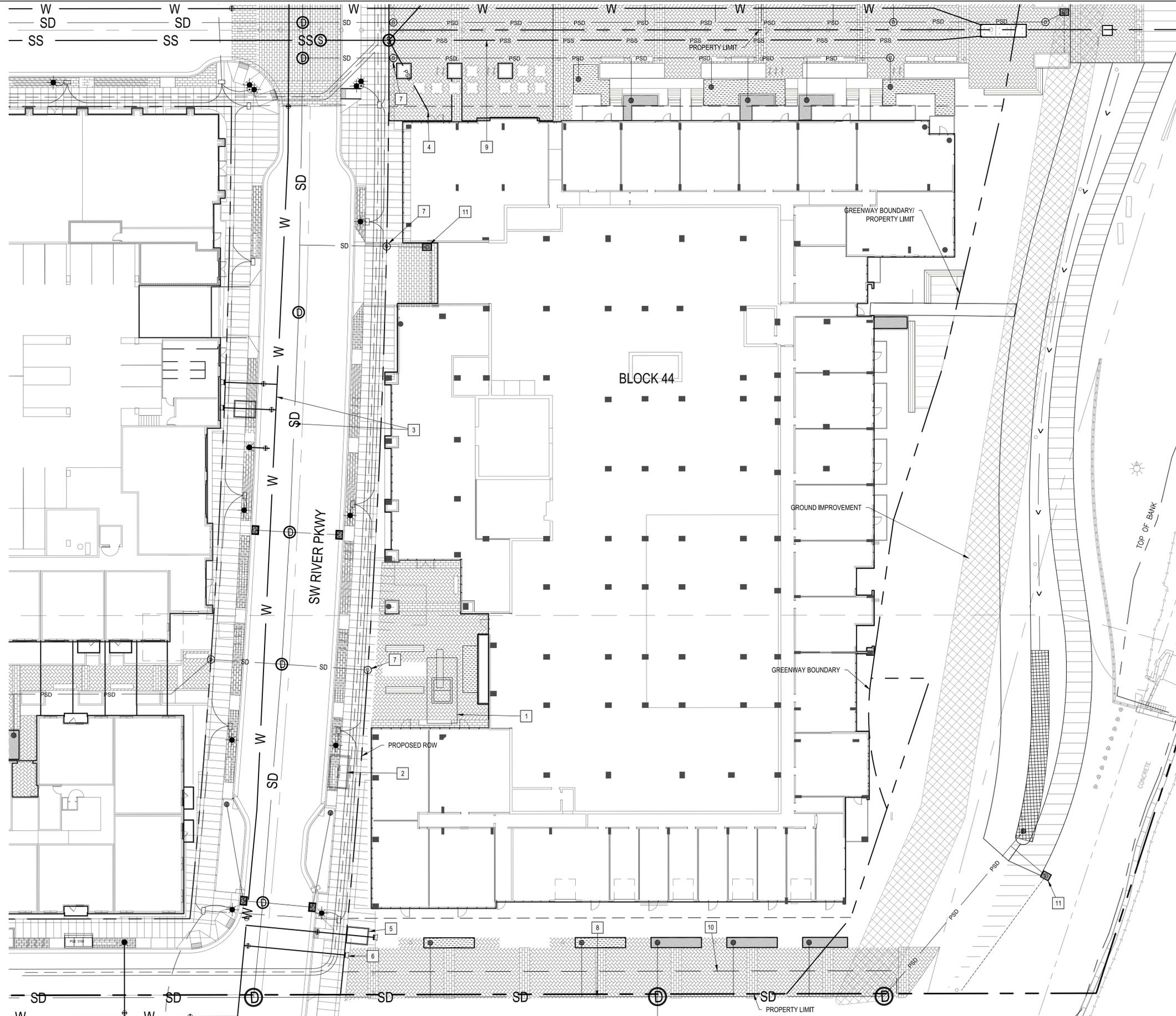
LEGEND

- BUILDING IMPERVIOUS AREA (TO STORMFILTER)
- BUILDING ROOF IMPERVIOUS AREA (TO PLANTER)
- PRIVATE STORMWATER PLANTER (ROOF TREATMENT)
- PROPOSED SWALE
- PED PATH IMPERVIOUS AREA (TO AT GRADE TREATMENT)
- COURTYARD IMPERVIOUS AREA (TO PLANTER)
- STORMWATER PLANTER (AT GRADE TREATMENT)



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UTILITY NOTES

- 1 INSTALL NEW 1024 PGE VAULT (BUILDING TRANSFORMER). COORDINATE WITH PGE.
- 2 INSTALL NEW 712 PGE VAULT (BACKBONE). COORDINATE WITH PGE.
- 3 PROPOSED PUBLIC WORKS IMPROVEMENTS UNDER SEPARATE PUBLIC WORKS PERMIT.
- 4 INSTALL SEWER LATERAL FOR BUILDING SERVICE.
- 5 INSTALL 687 VAULT FOR METER AND WATER SERVICE TO BUILDING.
- 6 INSTALL 8" FIRE SERVICE FOR BUILDING.
- 7 INSTALL STORM LATERAL FOR BUILDING SERVICE.
- 8 PROPOSED PUBLIC STORM LINE (UNDER PWP PERMIT).
- 9 PROPOSED PRIVATE SANITARY SEWER FOR WATER FEATURE.
- 10 PROPOSED PUBLIC STORM DRAIN EASEMENT.
- 11 PROPOSED PRIVATE STORMFILTER CATCH BASIN.

LEGEND

PUBLIC WATER LINE	— W —
PUBLIC SANITARY SEWER	— SS —
PUBLIC STORM DRAIN	— SD —
PRIVATE SEWER LINE	— PSS —
PRIVATE STORM LINE	— PSD —
FRANCHISE UTILITY CONDUIT	— — — — —
FRANCHISE UTILITY VAULTS	□
STORM DRAIN MANHOLE	⊙
SANITARY SEWER MANHOLE	⊙
STORMWATER PLANTER (ROOF TREATMENT)	▬
STORMWATER PLANTER (AT GRADE TREATMENT)	▬
SWALE	▬
CONVEYANCE CHANNEL TRENCH DRAIN	— > —



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STORMWATER NOTES

- 1 PROPOSED PRIVATE STORMWATER PLANTER.
- 2 PROPOSED STORMWATER LATERAL CONNECTION.
- 3 PROPOSED STORMFILTER CATCH BASIN.

STORMWATER NARRATIVE

THE PROPOSED STORMWATER MANAGEMENT SYSTEM, DESIGNED IN ACCORDANCE WITH THE CITY OF PORTLAND'S STORMWATER MANAGEMENT MANUAL AND SEWER AND DRAINAGE FACILITIES DESIGN MANUAL, WILL INCLUDE LOW IMPACT DEVELOPMENT (LID) PLANTERS, SWALES, AND STORMFILTER MANUFACTURED TREATMENT FOR WATER QUALITY TREATMENT. A PIPED CONVEYANCE SYSTEM WILL CONNECT TO AN EXISTING STORM SEWER IMMEDIATELY SOUTH OF SW LOWELL STREET. LID LINED PLANTERS AND SWALES WERE SIZED USING THE CITY'S PRESUMPTIVE APPROACH CALCULATOR (PAC) TOOL MEET POLLUTION REDUCTION REQUIREMENTS BY FILTERING STORM WATER THROUGH THE TOPSOIL MIX SPECIFIED BY BES. THE PROPOSED IMPROVEMENTS MEET THE CRITERIA FOR EXEMPTION FROM FLOW CONTROL RUNOFF, PER SECTION 1.3.4 OF THE STORMWATER MANAGEMENT MANUAL, AS THE STORM LINE DISCHARGES DIRECTLY TO THE WILLAMETTE RIVER THROUGH THE EXISTING SW LOWELL STREET OUTFALL. THE STORMWATER CONVEYANCE SYSTEM HAS BEEN SIZED TO CONVEY AND CONTAIN THE 10-YEAR, 5-MINUTE EVENT WITHOUT SURCHARGING AND THE 25-YEAR, 5-MINUTE STORM EVENT WITH AT LEAST 6 INCHES OF FREEBOARD.

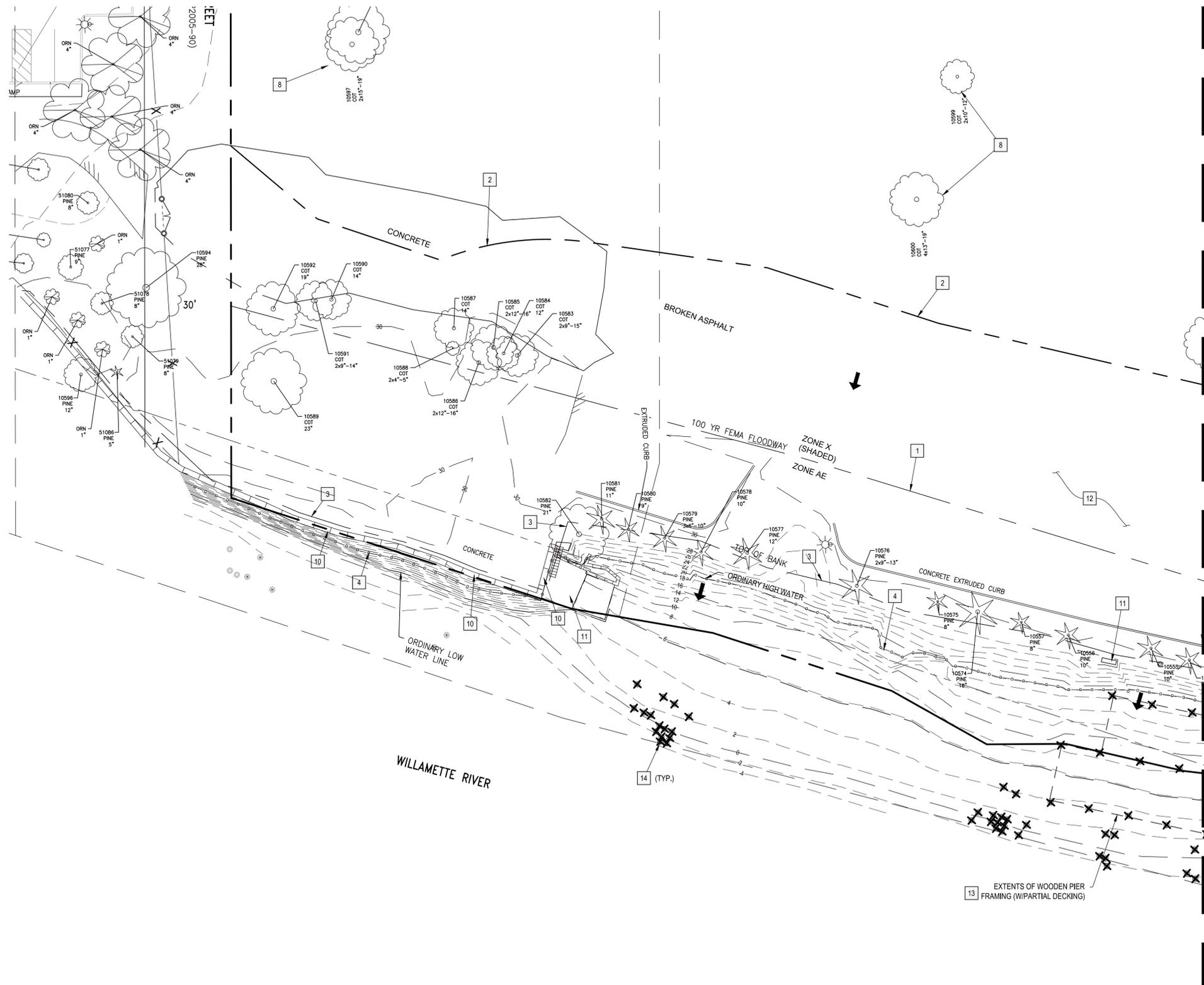
LEGEND

- BUILDING IMPERVIOUS AREA (TO STORMFILTER)
- BUILDING ROOF IMPERVIOUS AREA (TO PLANTER)
- PRIVATE STORMWATER PLANTER (ROOF TREATMENT)
- PROPOSED SWALE
- PED PATH IMPERVIOUS AREA (TO AT GRADE TREATMENT)
- COURTYARD IMPERVIOUS AREA (TO PLANTER)
- STORMWATER PLANTER (AT GRADE TREATMENT)



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MATCHLINE SHEET C-130

EXISTING CONDITIONS AND DEMO NOTES

- 1 FEMA 100-YEAR FLOODWAY.
- 2 WILLAMETTE GREENWAY BOUNDARY.
- 3 TOP OF BANK (2002 LINE).
- 4 ORDINARY HIGH WATER (OHW, ELEVATION 18.22').
- 5 ORDINARY LOW WATER (OLW, ELEVATION 5.9')
- 6 EXISTING TEMPORARY FENCE TO BE REMOVED.
- 7 EXISTING STORM DRAIN STRUCTURE/PIPE TO BE REMOVED.
- 8 TREES TO BE REMOVED PER LAND DIVISION APPROVAL.
- 9 EXISTING WATER HYDRANT TO BE REMOVED.
- 10 EXISTING CONCRETE PIER MONOLITHIC WALL TO REMAIN.
- 11 EXISTING CONCRETE SLABS TO BE REMOVED.
- 12 THE ENTIRE SITE HAS AREAS OF AC PAVEMENT OR CONCRETE COVERED WITH SOIL AND VEGETATION. EXPOSE AND COMPLETELY REMOVE.
- 13 REMOVE EXISTING WOOD PIER AND DECKING. REMOVE PIERS IN THEIR ENTIRETY UNLESS DEEMED HISTORICALLY SIGNIFICANT BY ARCHAEOLOGICAL STUDY.
- 14 EXISTING WOOD PILING TO BE REMOVED.

LEGEND

- 2' CONTOUR --- 18 ---
- 10' CONTOUR --- 20 ---
- ORDINARY HIGH WATER (OHW, ELEV 17.9') -o-o-o-
- TOP OF BANK (2002 LINE) - - - - -
- DRAINAGE FLOW ARROW →
- EXISTING TREE ★ ○

NOTE: ALL EXISTING TREES WITHIN GREENWAY TRACT TO BE REMOVED.

TOTAL TREE DBH REMOVED (WITHIN GREENWAY TRACT)
 COTTONWOOD: 243" DBH
 PINE: 350" DBH

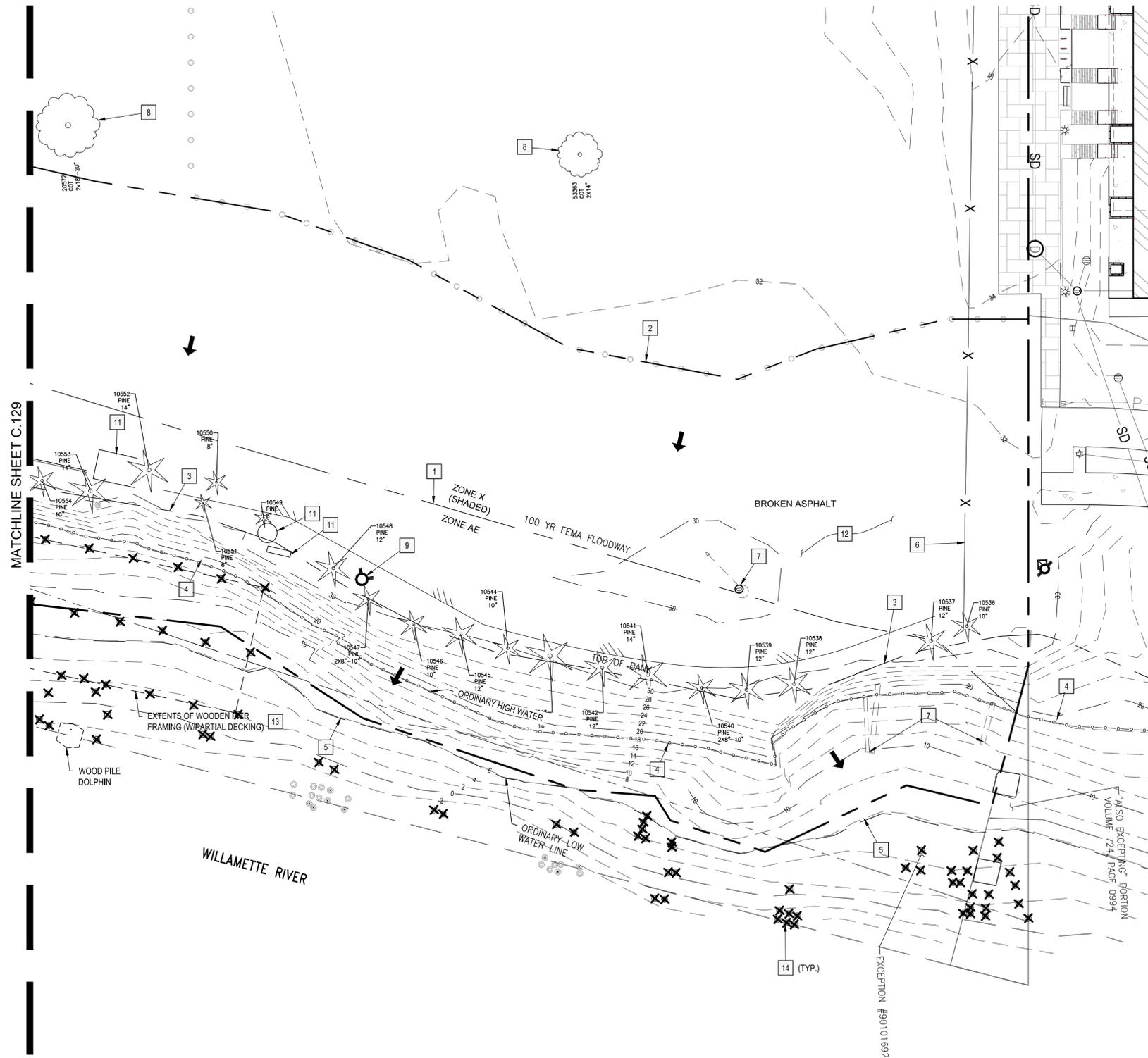
NOTE: ELEVATIONS ARE BASED ON CITY OF PORTLAND DATUM.

ZONING NOTE:
 SUBJECT SITE LIES ENTIRELY WITHIN COP ZONE CX dg.



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EXISTING CONDITIONS AND DEMO NOTES

- 1 FEMA 100-YEAR FLOODWAY.
- 2 WILLAMETTE GREENWAY BOUNDARY.
- 3 TOP OF BANK (2002 LINE).
- 4 ORDINARY HIGH WATER (OHW, ELEVATION 18.22').
- 5 ORDINARY LOW WATER (OLW, ELEVATION 5.9')
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- 7 EXISTING STORM DRAIN STRUCTURE/PIPE TO BE REMOVED.
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- 12 THE ENTIRE SITE HAS AREAS OF AC PAVEMENT OR CONCRETE COVERED WITH SOIL AND VEGETATION. EXPOSE AND COMPLETELY REMOVE.
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- 14 EXISTING WOOD PILING TO BE REMOVED.

LEGEND

- 2' CONTOUR ——— 18 ———
- 10' CONTOUR ——— 20 ———
- ORDINARY HIGH WATER (OHW, ELEV 17.9') - - - - -
- TOP OF BANK (2002 LINE) - - - - -
- DRAINAGE FLOW ARROW →
- EXISTING TREE

NOTE: ALL EXISTING TREES WITHIN GREENWAY TRACT TO BE REMOVED.

TOTAL TREE DBH REMOVED (WITHIN GREENWAY TRACT)
COTTONWOOD: 243" DBH
PINE: 350" DBH

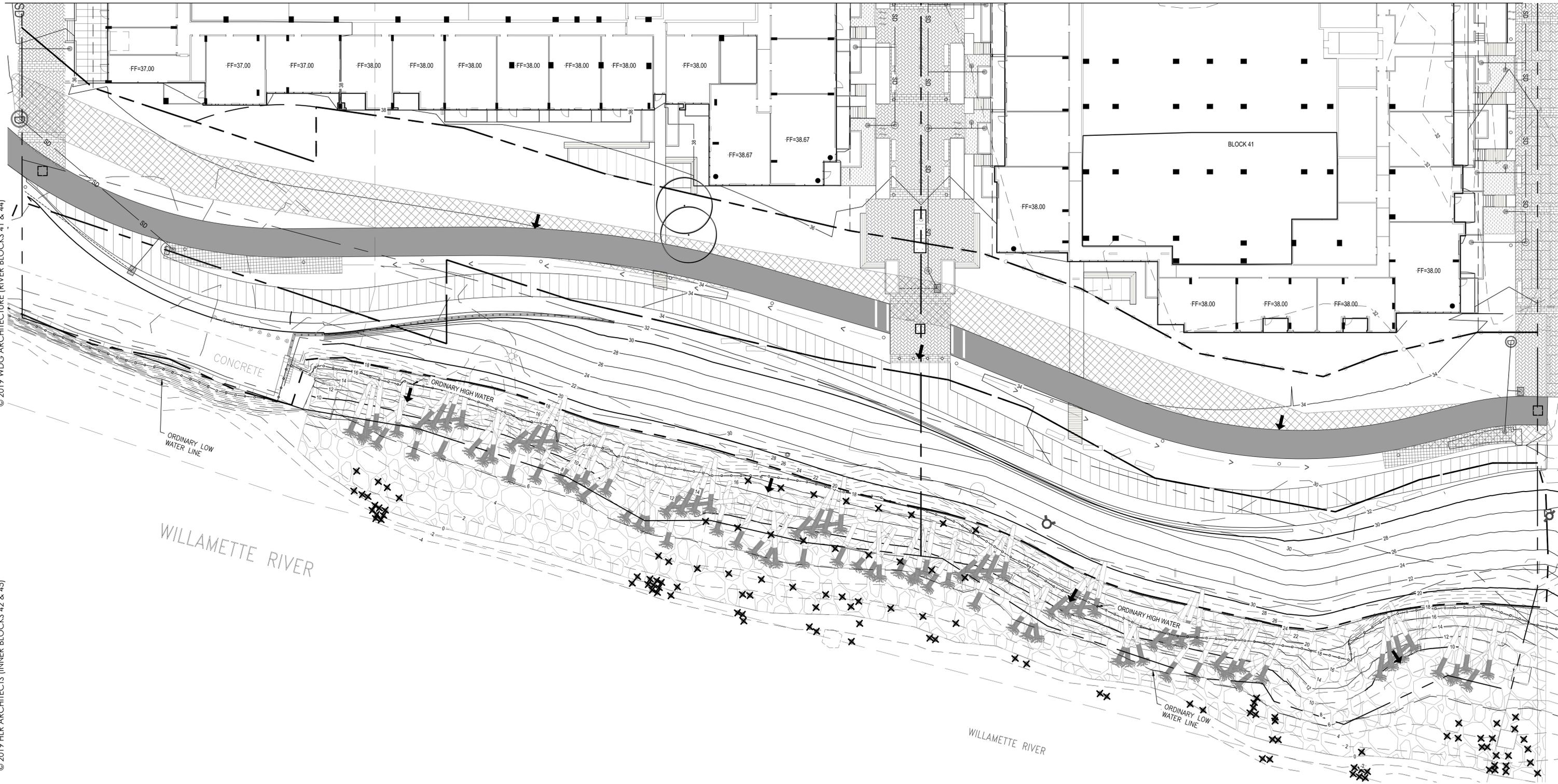
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ZONING NOTE:
SUBJECT SITE LIES ENTIRELY WITHIN COP ZONE CX dg.



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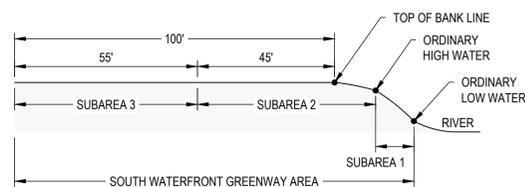
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LEGEND

- EX. 2' CONTOUR - - - - 18
- EX. 10' CONTOUR - - - - 20
- PROP. 2' CONTOUR - - - - 18
- PROP. 10' CONTOUR - - - - 20
- PROP. STORM LINE - - - - SD
- DRAINAGE ARROW →
- OHW - - - -
- TOP OF BANK (2002 LINE) - - - -

GROUND STABILIZATION

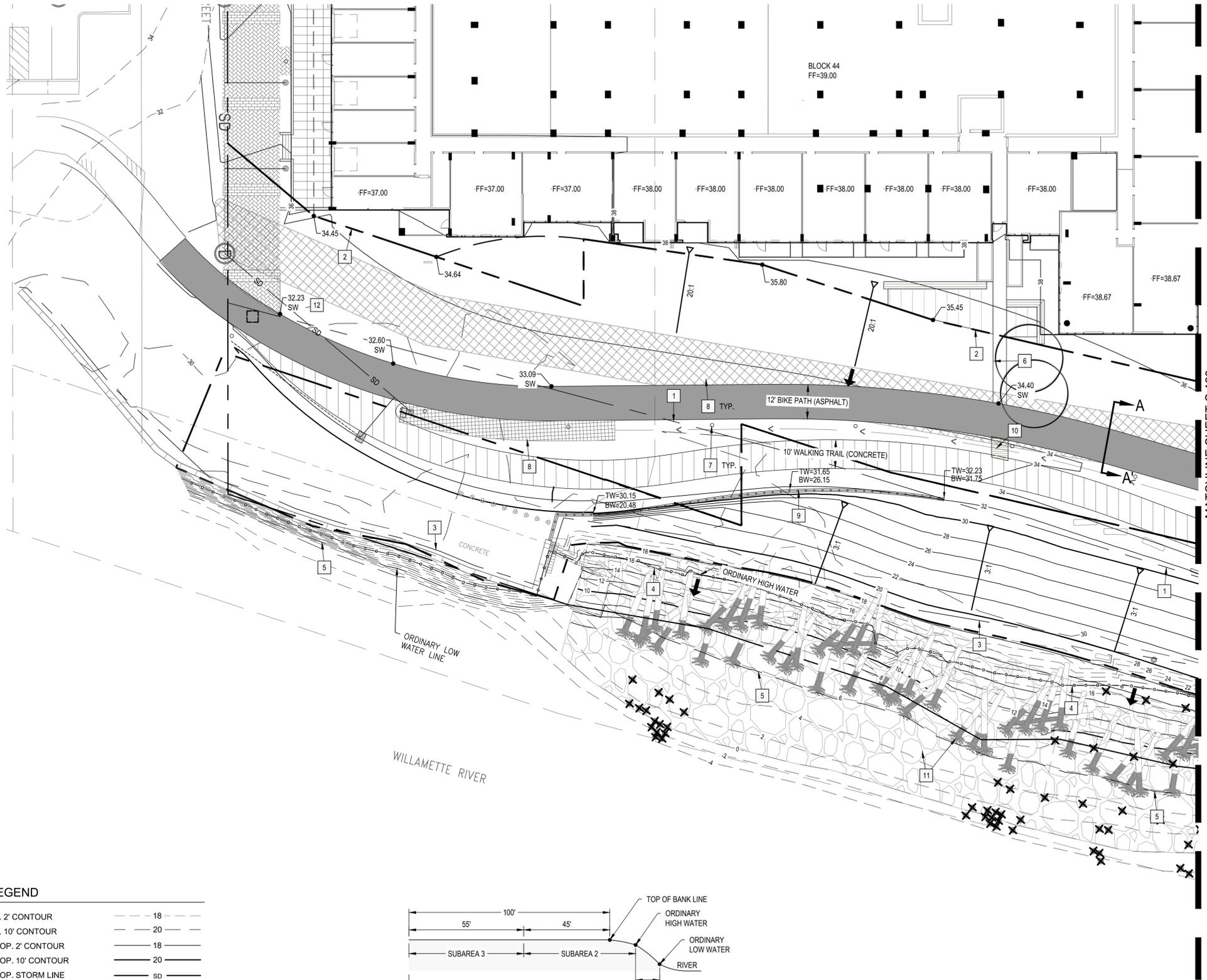


NOTE: ELEVATIONS ARE BASED ON CITY OF PORTLAND DATUM.



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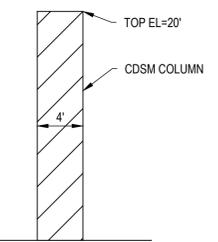
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- SITE NOTES**
- 1 FEMA 100-YR FLOODWAY
 - 2 WILLAMETTE GREENWAY BOUNDARY
 - 3 TOP OF BANK (2002 LINE)
 - 4 ORDINARY HIGH WATER (OHW, ELEVATION 18.22')
 - 5 ORDINARY LOW WATER (OLW, ELEVATION 5.9')
 - 6 SIDEWALK
 - 7 TRAIL LIGHTING
 - 8 STORM WATER QUALITY FEATURE (SWALE)
 - 9 RETAINING WALL WITH GUARDRAIL
 - 10 CONVEYANCE CHANNEL
 - 11 WOODY DEBRIS AND RIP RAP. SEE BANK STABILIZATION PLAN FOR DETAILS.
 - 12 STORM CONNECTION FROM SWALE TO PUBLIC STORM MANHOLE

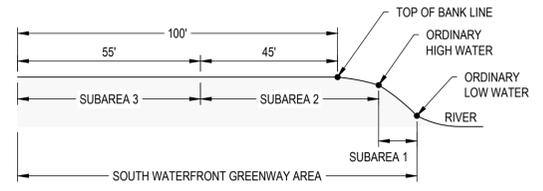
SEE SHEETS C2.0 - C3.0 FOR PRELIMINARY BANK STABILIZATION PLANS AND CROSS-SECTIONS

TOP OF GRADE (VARIES -32-35)



SECTION A-A' - GROUND STABILIZATION SECTION
NTS

- LEGEND**
- EX. 2' CONTOUR --- 18 ---
 - EX. 10' CONTOUR --- 20 ---
 - PROP. 2' CONTOUR --- 18 ---
 - PROP. 10' CONTOUR --- 20 ---
 - PROP. STORM LINE --- SD ---
 - DRAINAGE ARROW →
 - OHW - - - - -
 - TOP OF BANK (2002 LINE) - - - - -
 - GROUND STABILIZATION (BELOW GRADE) [Symbol]
 - RETAINING WALL [Symbol]

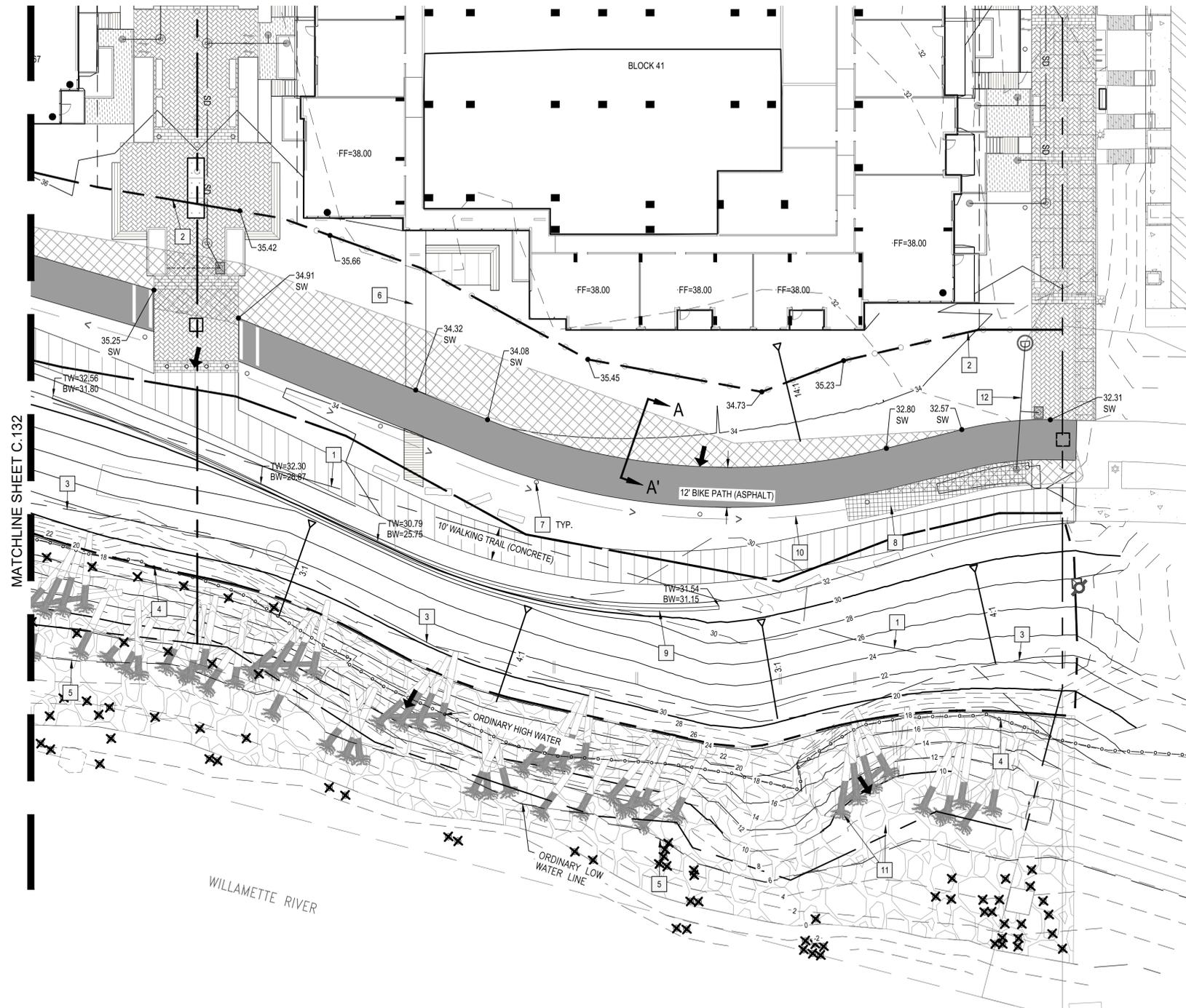


NOTE: ELEVATIONS ARE BASED ON CITY OF PORTLAND DATUM.



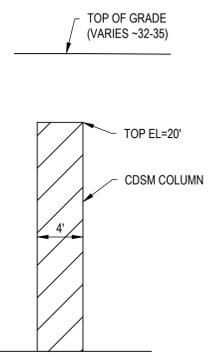
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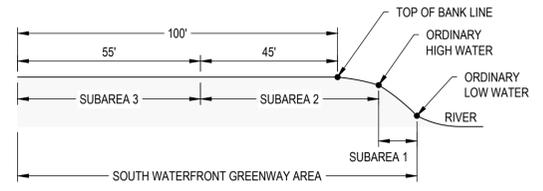
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- 1 FEMA 100-YR FLOODWAY
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 - 12 STORM CONNECTION FROM SWALE TO PUBLIC STORM MANHOLE.

SEE SHEETS C2.0 - C3.0 FOR PRELIMINARY BANK STABILIZATION PLANS AND CROSS-SECTIONS

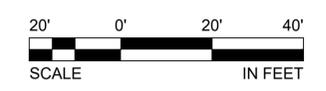


SECTION A-A' - GROUND STABILIZATION SECTION
NTS

- LEGEND**
- EX. 2' CONTOUR --- 18 ---
 - EX. 10' CONTOUR --- 20 ---
 - PROP. 2' CONTOUR --- 18 ---
 - PROP. 10' CONTOUR --- 20 ---
 - PROP. STORM LINE --- SD ---
 - DRAINAGE ARROW →
 - OHW --- ○---○---○ ---
 - TOP OF BANK (2002 LINE) --- ○---○---○ ---
 - GROUND STABILIZATION (BELOW GRADE) [Cross-hatched pattern]
 - RETAINING WALL [Line with cross-ticks]

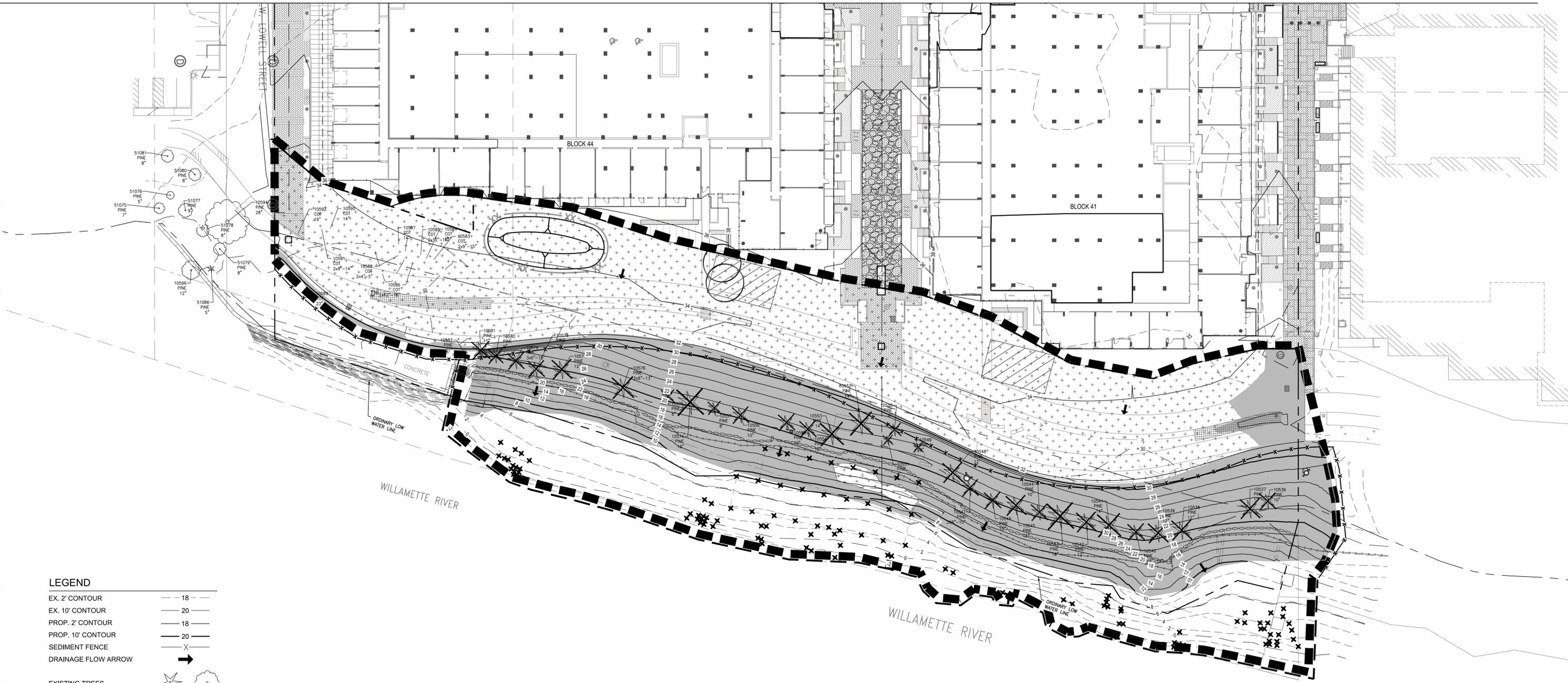


NOTE: ELEVATIONS ARE BASED ON CITY OF PORTLAND DATUM.



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LEGEND

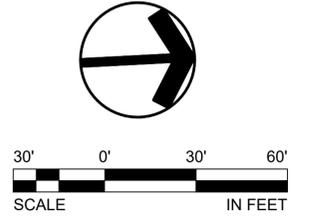
EX. 2' CONTOUR	— 18 —
EX. 10' CONTOUR	— 20 —
PROP. 2' CONTOUR	— 18 —
PROP. 10' CONTOUR	— 20 —
SEDIMENT FENCE	— X —
DRAINAGE FLOW ARROW	➔
EXISTING TREES	
EXISTING TREES TO BE REMOVED	
STRAW WATTLES	— ○ —
TURBIDITY CURTAIN	— — —
SEDIMENT FENCE	— X —
AREAS OF EXCAVATION WITHIN GREENWAY (CUT)	— ■ —
AREAS OF EMBANKMENT WITHIN GREENWAY (FILL)	— + + —
LIMITS OF DISTURBANCE	— ■ ■ —
CONSTRUCTION INGRESS/EGRESS	
STAGING/MATERIAL AREA	
STOCKPILE	

CUT / FILL VOLUMES

EXCAVATION WITHIN GREENWAY	5,271 CY
EMBANKMENT WITHIN GREENWAY	5,631 CY

ZONING NOTE:
SUBJECT SITE LIES ENTIRELY WITHIN COP ZONE CX dg.

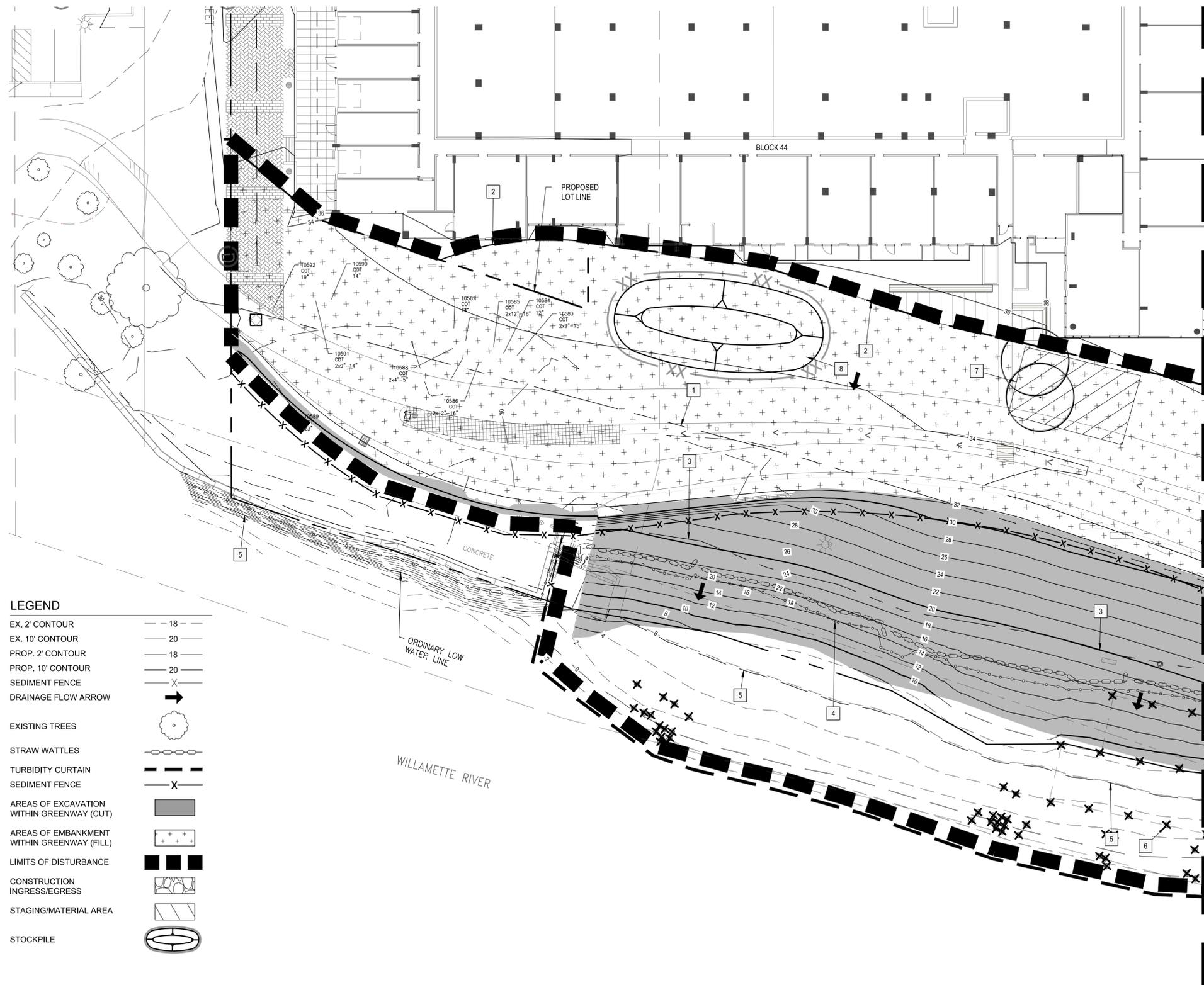
NOTE: ELEVATIONS ARE BASED ON CITY OF PORTLAND DATUM.



CONSTRUCTION MANAGEMENT NOTES

- 1 FEMA 100-YEAR FLOODWAY
- 2 WILLAMETTE GREENWAY BOUNDARY
- 3 TOP OF BANK 2002 LINE (TYPICAL)
- 4 ORDINARY HIGH WATER (OHW, ELEVATION 18.22')
- 5 ORDINARY LOW WATER (OLW, ELEVATION 5.9')
- 6 REMOVE EXISTING WOOD PIER AND DECKING. REMOVE PIERS IN THEIR ENTIRETY UNLESS DEEMED HISTORICALLY SIGNIFICANT BY ARCHAEOLOGICAL STUDY.
- 7 PROPOSED STAGING/MATERIAL AREA
- 8 PROPOSED STOCKPILE LOCATION

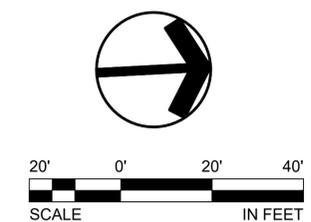
NOTE: ELEVATIONS ARE BASED ON CITY OF PORTLAND DATUM.



LEGEND

- EX. 2' CONTOUR ——— 18
- EX. 10' CONTOUR ——— 20
- PROP. 2' CONTOUR ——— 18
- PROP. 10' CONTOUR ——— 20
- SEDIMENT FENCE — X —
- DRAINAGE FLOW ARROW —>
- EXISTING TREES (tree symbol)
- STRAW WATTLES (chain-link symbol)
- TURBIDITY CURTAIN (dashed line symbol)
- SEDIMENT FENCE (X symbol)
- AREAS OF EXCAVATION WITHIN GREENWAY (CUT) (hatched symbol)
- AREAS OF EMBANKMENT WITHIN GREENWAY (FILL) (+ symbol)
- LIMITS OF DISTURBANCE (thick black line symbol)
- CONSTRUCTION INGRESS/EGRESS (hatched symbol)
- STAGING/MATERIAL AREA (diagonal line symbol)
- STOCKPILE (circle with cross symbol)

NOTE:
ALL EXISTING TREES WITHIN GREENWAY TRACT TO BE REMOVED.



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MATCHLINE SHEET C-136

CONSTRUCTION MANAGEMENT NOTES

- 1 FEMA 100-YEAR FLOODWAY
- 2 WILLAMETTE GREENWAY BOUNDARY
- 3 TOP OF BANK 2002 LINE (TYPICAL)
- 4 ORDINARY HIGH WATER (OHW, ELEVATION 18.22')
- 5 ORDINARY LOW WATER (OLW, ELEVATION 5.9')
- 6 REMOVE EXISTING WOOD PIER AND DECKING. REMOVE PIERS IN THEIR ENTIRETY UNLESS DEEMED HISTORICALLY SIGNIFICANT BY ARCHAEOLOGICAL STUDY.
- 7 PROPOSED STAGING/MATERIAL AREA
- 8 PROPOSED CONSTRUCTION INGRESS/EGRESS

NOTE: ELEVATIONS ARE BASED ON CITY OF PORTLAND DATUM.



LEGEND

EX. 2' CONTOUR	--- 18 ---
EX. 10' CONTOUR	--- 20 ---
PROP. 2' CONTOUR	--- 18 ---
PROP. 10' CONTOUR	--- 20 ---
SEDIMENT FENCE	X
DRAINAGE FLOW ARROW	→
EXISTING TREES	★
STRAW WATTLES	—○—○—○—
TURBIDITY CURTAIN	—■—■—■—
SEDIMENT FENCE	X
AREAS OF EXCAVATION WITHIN GREENWAY (CUT)	■
AREAS OF EMBANKMENT WITHIN GREENWAY (FILL)	+ + +
LIMITS OF DISTURBANCE	■ ■ ■
CONSTRUCTION INGRESS/EGRESS	○ ○ ○
STAGING/MATERIAL AREA	▨ ▨ ▨
STOCKPILE	⊙

NOTE:
ALL EXISTING TREES WITHIN GREENWAY TRACT TO BE REMOVED.

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