



US Army Corps
of Engineers
Seattle District

Joint Public Notice Of In-lieu Fee Program Addendum



US Army Corps of Engineers
Regulatory Branch
Post Office Box 3755
Seattle, Washington 98124-3755
Telephone (206) 766-6438
Email: gail.m.terzi@usace.army.mil
Attention: Gail Terzi

WA Department of Ecology
Shorelands and Environmental
Assistance Program
Post Office Box 47600
Olympia, Washington 98504-7600
Telephone: (360) 407-6140
Email: pjoh461@ecy.wa.gov
Attention: Patricia Johnson

Public Notice Date: February 16, 2016
Expiration Date: March 17, 2016

Reference No.: NWS-2012-33
Name: Pierce County In Lieu Fee Program
(Larchmont Wetland Reserve)

Interested parties are hereby notified that the U.S. Army Corps of Engineers (Corps) and the Washington State Department of Ecology (Ecology) are soliciting comments and information necessary to evaluate any impacts on the public interest from the proposed inclusion of the Larchmont Wetland Reserve Project (Larchmont Mitigation Plan) as an In-lieu Fee (ILF) mitigation receiving site that has been selected for funding through the Pierce County In Lieu Fee Mitigation Program (PCILF). Pierce County Public Works Surface Water Management Division (Pierce County) is the program sponsor, and the PCILF Program Instrument was authorized on April 2, 2015.

Pierce County is proposing to modify their ILF Program Instrument by adding the Larchmont Mitigation Plan. The Mitigation Plan has been developed in accordance with 33 CFR Parts 325 and 332.2, and it describes project elements, performance measures, and maintenance and monitoring plans for implementation and long-term management of the Larchmont Wetland Reserve Project.

ILF PROGRAM SPONSOR CONTACT: Pierce County In-Lieu Fee Program
Ann Boeholt, Project Manager
Surface Water Management Division
Pierce County Public Works
2702 South 42nd Street
Tacoma, Washington 98409
(253) 798-4694
aboehol@co.pierce.wa.us

LOCATION: The ILF Mitigation Project site (Larchmont) is located near Tacoma, in the Midland area of unincorporated Pierce County, Washington; latitude 47.1719° North, longitude -122.4190° West. The 16.88-acre site occupies the majority of the block between 91st Street East and 96th Street East (north and south, respectively), and between 9th Avenue Court East and McKinley Avenue East (east and west, respectively) (see attached Figure 1. Vicinity Map). The Larchmont site is located within the Chambers-Clover Creek watershed (WRIA 12), and it includes the upper reach of a tributary to North Fork Clover Creek.

WORK: This is not an application for work in waters of the U.S. The Corps issued a Nationwide Permit (NWP) 27 for construction of the Larchmont Wetland Reserve project on February 4, 2013 (Corps Reference Number NWS-2012-927), and the 16.88-acre site was constructed in summer 2013 (see Figures 2, 3A, 3B, and 4). Native

plants were installed in fall 2013; seeds were planted in fall 2013 and spring 2014; and non-native invasive species were removed by hand and additional native trees and shrubs were installed from the fall 2013 to spring 2015.

Prior to construction, the site was generally undeveloped, and the majority of the site was a Category II wetland (12.2 acres) with forested, scrub-shrub, and emergent habitats. However, much of the site was disturbed. Crossing the wetland was a network of ditches for drainage and to convey a tributary to the North Fork Clover Creek - stream flow was confined to a deep (five feet in some areas), straight ditch. The ditches were excavated in the 1920's and were regularly maintained until shortly before construction of the Larchmont project. The southeast area was disturbed by previous agricultural activities and off-road vehicle use, consequently that area was dominated by invasive reed canarygrass. Portions of the site were used as a dumping spot for decades, and leaking underground storage tanks contaminated the soil. Untreated runoff from roadside ditches discharged to the wetland. Removal of a homeless encampment at the south end of the site required a hazardous waste removal company.

As described in the *Draft Wetland Mitigation Report Larchmont Wetland Reserve PCILF Wetland Mitigation Receiving Site* dated December 2015, the Larchmont project was designed and constructed to:

- Install a water level control outlet weir to rehabilitate 12.2 acres of existing wetland on the site by increasing the area of seasonal ponding to at least 25% of the wetland area, including creating a 4-acre seasonal pond; and enhancing the wetland and some buffer areas by removing non-native invasive vegetation and installing native trees, shrubs, and herbaceous species.
- Improve wildlife habitat by adding at least ¼ of an acre of permanently or seasonally ponded wetland habitat with thin-stemmed persistent vegetation suitable for amphibian egg laying; and installing habitat features (snags, downed logs, boulder/brush piles, and wood duck nesting boxes).
- Demolish one house and garage in the northern portion of the site and re-establish 1.16 acres of wetland.
- Decommission the network of drainage ditches and create a natural, meandering low-flow stream channel.
- Improve water quality of incoming stormwater and comply with minimum technical requirements for stormwater discharges to wetlands by demolishing one house in the southeast corner of the site and creating two vegetated swales in upland areas at the southeast and north stormwater inlets.
- Remove a homeless encampment and install protective fencing.
- Remove approximately 35 tons of garbage that was buried or on the surface, and remove approximately 120 cubic yards of contaminated soil.

The project location was chosen based on identified priority wetland restoration objectives and habitat preservation opportunities within the Chambers-Clover Creek watershed (WRIA 12). As constructed, the Larchmont Wetland Reserve site is intended to provide improved surface water storage capacity, water quality improvements, and expanded amphibian habitat in an urbanizing area where these functions are being degraded. In addition, the Larchmont Wetland Reserve is located approximately 0.5 of a mile upstream of the South Midland Wetland Reserve (another proposed PCILF receiving site that was installed in 2008), and the two sites work synergistically to improve water quality and hydrologic functions, protect wildlife habitat, and preserve aquatic resources in the Clover Creek watershed.

PURPOSE: The purpose of the Larchmont Wetland Reserve PCILF receiving site is to provide compensatory mitigation credits in advance of adverse aquatic ecosystem impacts associated with activities authorized by the

Corps, Ecology, and other regulatory entities that occur within the Chambers-Clover Creek service area of the PCILF Program. Use of ILF credits as future compensatory mitigation would depend on case-by-case approval by the involved regulatory agencies after determining that the use of ILF credits would be consistent with all applicable rules and policies of the agencies.

ADDITIONAL INFORMATION: The In Lieu Fee Mitigation Plan entitled *Draft Wetland Mitigation Report Larchmont Wetland Reserve PCILF Wetland Mitigation Receiving Site* dated December 2015, is available for review at the above-listed Corps and Ecology offices, and at the Pierce County Public Works office, 2702 South 42nd Street, Suite 201, Tacoma, Washington 98409. The Mitigation Plan can be downloaded at the following internet addresses:

<http://www.ecy.wa.gov/mitigation/ilf/PublicNotices.html>

<http://www.nws.usace.army.mil/Missions/CivilWorks/Regulatory/PublicNotices.aspx>

AUTHORITY: Issuance of a Public Notice regarding proposed ILF receiving sites is required pursuant to: “*Compensatory Mitigation for Losses of Aquatic Resources; Final Rule,*” (Federal Mitigation Rule) as published in the April 10, 2008, Federal Register, Vol. 73, No. 70, Pages 19594-19705 (33 CFR Parts 325 and 332).

ENDANGERED SPECIES: The Endangered Species Act (ESA) requires federal agencies to consult with the National Marine Fisheries Service (NMFS) and/or U.S. Fish and Wildlife Service pursuant to Section 7 of the ESA on all actions that may affect a species listed (or proposed for listing) under the ESA as threatened or endangered or any designated critical habitat. During processing of the NWP 27 (issued February 4, 2013), the Corps determined that work associated with construction and installation of the Larchmont Wetland Reserve project would have “no effect” on any species and/or critical habitat, listed and/or proposed under the ESA. Consultation under Section 7 of the ESA is not required.

ESSENTIAL FISH HABITAT: The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act of 1996, requires all Federal agencies to consult with the NMFS on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH). During processing of the NWP 27 (issued February 4, 2013), the Corps determined that work associated with construction and installation of the Larchmont Wetland Reserve project would not adversely affect designated EFH for federally managed fisheries in Washington waters. No further EFH consultation is necessary.

CULTURAL RESOURCES: During processing of the Larchmont Wetland Reserve NWP 27 (issued February 4, 2013), the Corps reviewed the latest published version of the National Register of Historic Places, Washington Information System for Architectural and Archaeological Records Data, and other sources of information. A historic properties investigation was conducted within the Larchmont Wetland Reserve site area and was coordinated with the Washington Department of Archaeology and Historic Preservation. It was determined that no historic properties would be affected by work associated with construction and installation of the Larchmont project. The Corps invites responses to this public notice from Native American Tribes or tribal governments; Federal, State, and local agencies; historical and archeological societies; and other parties likely to have knowledge of or concerns regarding historic properties and sites of religious and cultural significance at or near the proposed ILF receiving site. After receipt of comments from this public notice, the Corps will evaluate potential impacts and consult with the State Historic Preservation Officer and Native American Tribes in accordance with Section 106 of the National Historic Preservation Act, as appropriate.

EVALUATION: The Corps and Ecology are soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate this proposed ILF

receiving site. This proposal is to modify the PCILF Program to add the Larchmont Wetland Reserve Mitigation Plan; it is not an application for work in waters of the U.S. In evaluating this proposal, the Corps and Ecology will consider any comments received. For accuracy and completeness of the record, all comments should be submitted in writing with sufficient detail to furnish a clear understanding of the reasons for that support or opposition.

PUBLIC HEARING: Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the Mitigation Plan. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

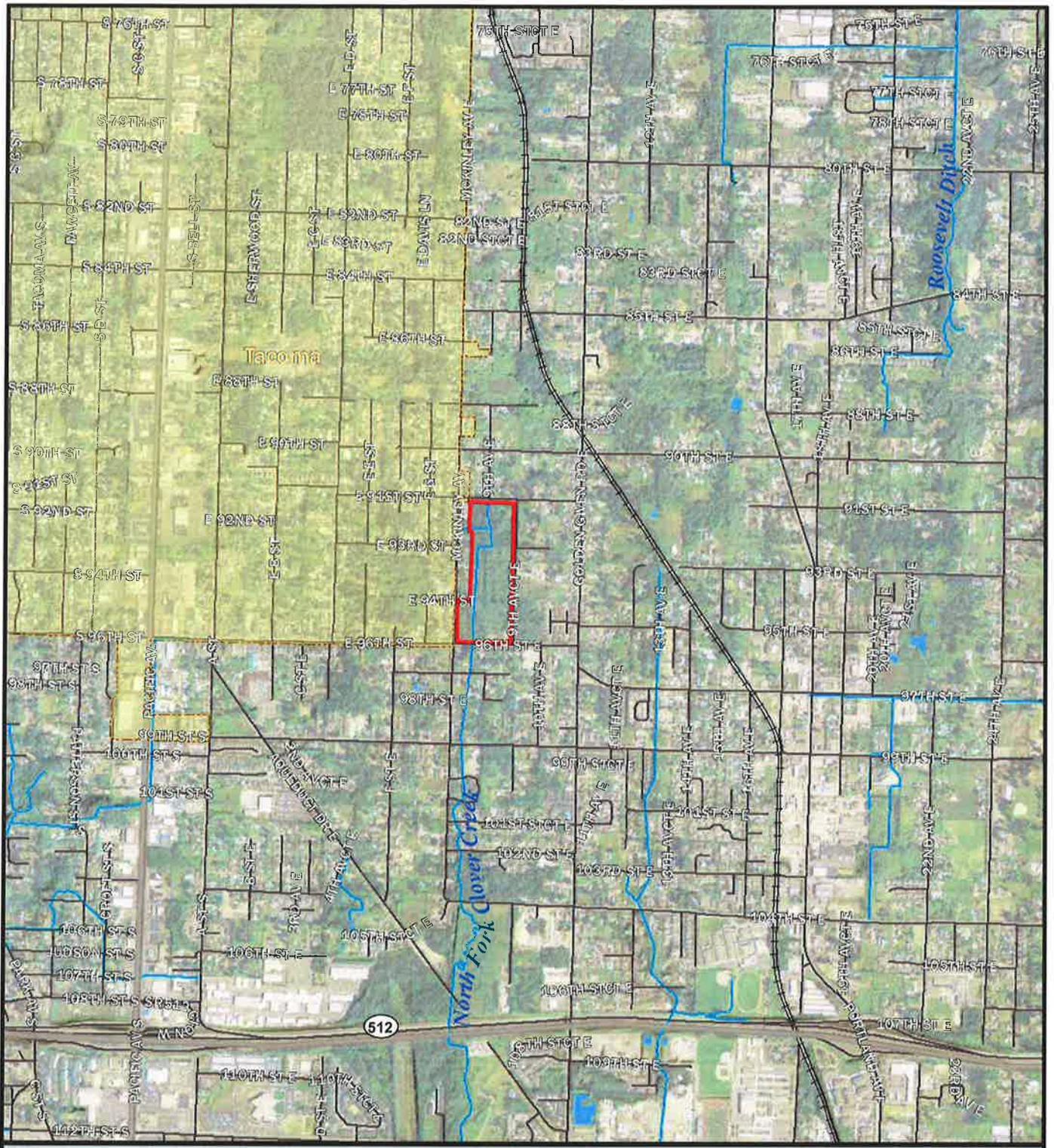
COMMENT AND REVIEW PERIOD: Conventional mail or e-mail comments on this proposed ILF receiving site will be accepted and made part of the record, and will be considered in determining whether it would be in the public interest to authorize this addendum to the PCILF Program Instrument. In order to be accepted, e-mail comments must originate from the author's e-mail account and must include in the subject line of the e-mail message the ILF Program name and reference number as shown below. Either conventional mail or e-mail comments must include the ILF Program name and reference number, as shown below, and the commentator's name, address, and phone number. All comments, whether conventional mail or e-mail, must reach the Corps and Ecology no later than the expiration date of this public notice to ensure consideration.

CORPS COMMENTS: All e-mail comments should be sent to gail.m.terzi@usace.army.mil. Conventional mail comments should be sent to: U.S. Army Corps of Engineers, Regulatory Branch, Attention: Ms. Gail Terzi, P.O. Box 3755, Seattle, Washington 98124-3755. All comments received will become part of the administrative record and are subject to public release under the Freedom of Information Act, including any personally identifiable information such as names, phone numbers, and addresses.

ECOLOGY COMMENTS: All e-mail comments should be sent to pjoh461@ecy.wa.gov. Conventional mail comments should be sent to: Washington State Department of Ecology, Attention: Ms. Patricia Johnson, P.O. Box 47600, Olympia, Washington 98504-7600.

IN LIEU FEE PROGRAM NAME AND REFERENCE NUMBER: To ensure proper consideration of all comments, responders must include the following in lieu fee program name and reference number in the text of their comments: Pierce County In Lieu Fee Program (Larchmont Wetland Reserve); NWS-2012-33.

Figures (5)

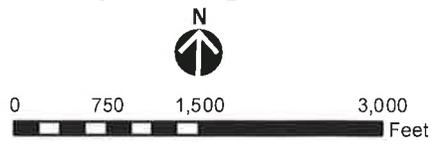


Legend

- Project area
- City limit
- Road
- Stream (Pierce County)

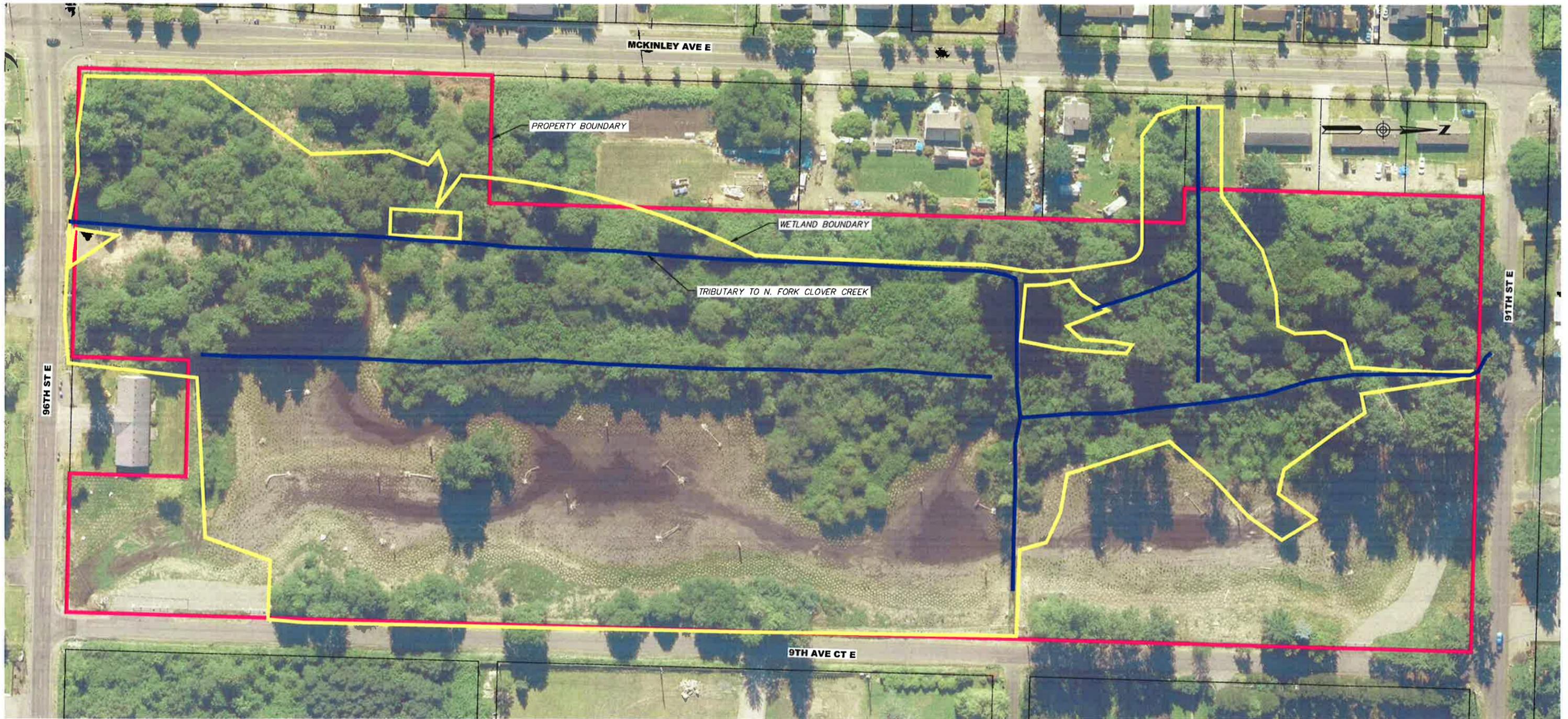


Figure 1.
Vicinity Map for the Larchmont
Wetland Reserve Project,
Pierce County, Washington.



K:\Projects\201111-05001-039\Project Monitoring_Report\larchmont\vicinity_map.mxd (10/23/2015)

FIGURE 1



LARCHMONT WETLAND RESERVE
PROPERTY BOUNDARY, DRAINAGE WAYS,
AND PRE-EXISTING WETLAND BOUNDARY
FIGURE 2

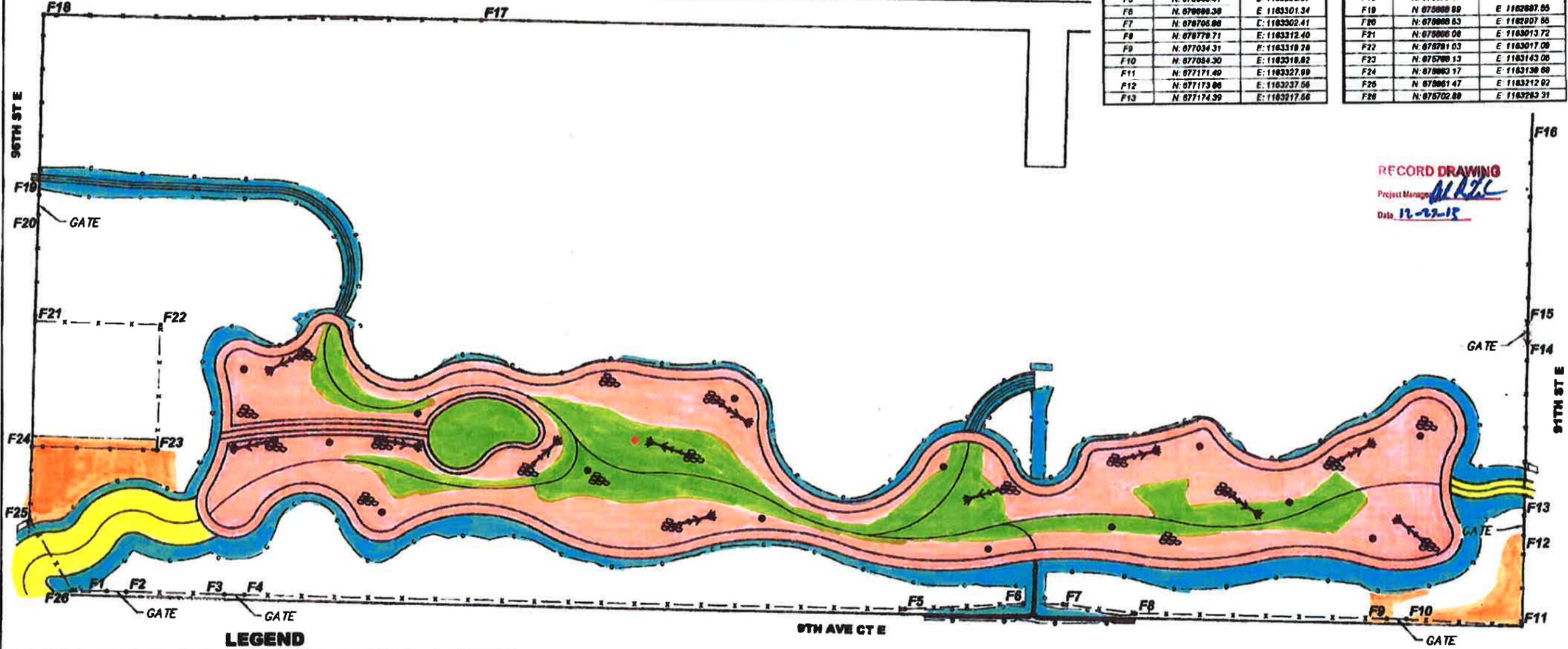
SEC. 34, T. 20 N., R. 03 E., W.M.

MCKINLEY AVE E

| FENCE COORDINATE POINTS | | |
|-------------------------|--------------|---------------|
| POINT | NORTHING | EASTING |
| F1 | N: 876738.13 | E: 1183284.38 |
| F2 | N: 876758.12 | E: 1183284.80 |
| F3 | N: 876867.30 | E: 1183287.48 |
| F4 | N: 876877.30 | E: 1183288.02 |
| F5 | N: 876846.41 | E: 1183306.07 |
| F6 | N: 876868.38 | E: 1183301.34 |
| F7 | N: 876786.88 | E: 1183302.41 |
| F8 | N: 876779.71 | E: 1183312.40 |
| F9 | N: 877034.31 | E: 1183318.28 |
| F10 | N: 877084.30 | E: 1183318.82 |
| F11 | N: 877171.49 | E: 1183327.00 |
| F12 | N: 877173.86 | E: 1183327.56 |
| F13 | N: 877174.39 | E: 1183317.56 |

| FENCE COORDINATE POINTS | | |
|-------------------------|--------------|---------------|
| POINT | NORTHING | EASTING |
| F14 | N: 877178.82 | E: 1183843.87 |
| F15 | N: 877179.44 | E: 1183823.88 |
| F16 | N: 877184.18 | E: 1182842.18 |
| F17 | N: 876117.12 | E: 1182713.29 |
| F18 | N: 876873.17 | E: 1182708.30 |
| F19 | N: 876888.88 | E: 1182887.85 |
| F20 | N: 876888.83 | E: 1182907.85 |
| F21 | N: 876888.08 | E: 1183013.72 |
| F22 | N: 876781.03 | E: 1183017.08 |
| F23 | N: 875788.13 | E: 1183143.08 |
| F24 | N: 875883.17 | E: 1183138.88 |
| F25 | N: 875881.47 | E: 1183212.82 |
| F26 | N: 875782.88 | E: 1183283.31 |

RECORD DRAWING
 Project Manager: *[Signature]*
 Date: 12-23-15

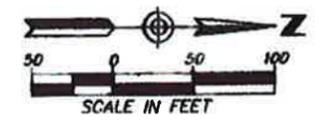


LEGEND

- SEASONALLY PONDED AREA 1
PLANTING AND HAND SEEDING
- SEASONALLY PONDED AREA 2
PLANTING AND HAND SEEDING
- SATURATED OR INFREQUENTLY PONDED AREA
PLANTING AND HAND SEEDING
- NON-WETLANDS AREA
PLANTING AND HAND SEEDING
- SWALE AREA HAND SEEDING
- GATE
- CONTOUR LINE
- HABITAT SNAG
- HABITAT LOG
- BOULDER PILE

NOTES

1. AN AUTOCAD FILE WILL BE PROVIDED TO THE CONTRACTOR UPON REQUEST FOR STAKING PLANTING LIMITS.
2. SEE PLAN SHEET 12 FOR ADDITIONAL PLANTING INFORMATION AND DETAILS.
3. ALL COMPACTED AREAS SUCH AS TEMPORARY ACCESS ROADS (INCLUDING COMPACTED TOPSOIL TYPE B AREAS) SHALL BE SCARIFIED (DE-COMPACTED), AT THE CONTRACTOR'S EXPENSE, TO A MIN. DEPTH OF 12-INCHES PRIOR TO HYDROSEEDING AND PLANTING.



Date: Apr 08, 2013 11:37:57 AM
 Drawing: N:\UTL\PROJECTS\WATER PROGRAMS\WETLAND RESERVE\ACAD\CONSTRUCTION DRAWING\0200-01SHEETS.DWG
 Xrefs: (PDS) evolver.tbl

| | | | | | |
|-------------------------------|---------------------------------|-----|------|----------|----------|
| DRAWING NO. SEE SIDE STAMP | SURVEYED BY: T. WILLE | | | | |
| DRAWN BY: E. GRIMM | DATE SURVEYED: NOV. 2010 | | | | |
| DESIGNED BY: E. GRIMM | BOOK NO. - | | | | |
| CHECKED BY: A. ZEPH, P.E. | DATE PLOTTED: SEE SIDE STAMP | NO. | DATE | REVISION | BY |
| | | | | | APPROVED |

Pierce County
 DEPARTMENT OF PUBLIC WORKS AND UTILITIES
 SURFACE WATER MANAGEMENT
 TACOMA MALL PLAZA BUILDING
 2700 SOUTH 42nd STREET, SUITE 301
 TACOMA, WA 98409-7225

APPROVED BY: *[Signature]*
 HAROLD SHELTON, SURFACE WATER MANAGEMENT MANAGER



LARCHMONT WETLAND RESERVE

PLANTING AND FENCING PLAN

C.I.P. # D200-006

SHEET 11 of 17

FIGURE 3A

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 Xrefs: (DIESEL evaluation failed)

| SEASONALLY PONDED AREA 1 PLANTING AND HAND SEEDING (50,775 SF) | | | | |
|---|-------------------------------------|-------------------|------------------|----------------|
| PLANT TYPE | SCIENTIFIC NAME | TYPE | MIN. SPACING | TOTAL |
| PSIPE - MARSH CINQUEFOIL* | Potentilla palustris or P. gracilis | 1 GAL. | 3' OC | 190 |
| PSIPE - BUCKBEAN* | Monyarda trifoliata | 1 GAL. | 3' OC | 190 |

* PLANT EMERGENTS IN RANDOM "LIKE KIND" CLUSTER DRIFTS THROUGHOUT SEASONALLY PONDED AREA 1 PLANTING/SEEDING BELOW ELEVATION 385 PER HATCH SYMBOL.
 * ONE CLUSTER DRIFT SHALL CONSIST OF THREE PLANTS, 3 FT. APART ON CENTER.
 * DRIFTS SHOULD BE WELL SPACED (APPROX. 20 FT. ON CENTER) AS DETAILED OR AS DIRECTED BY THE ENGINEER.
 * WEED MATS NOT INSTALLED

PSIPE WATER PLANTAIN (1 GAL.) - 3' OC - 95
 PSIPE Sparganium emersum (1 GAL.) - 3' OC - 95

HAND SEEDING SEASONALLY PONDED AREA 1:
 SEED MIX
 Carex aquatilis: 35% OF SEED BY WEIGHT
 Carex cusickii: 15% OF SEED BY WEIGHT
 Carex vesicaria: 12% OF SEED BY WEIGHT
 Eleocharis palustris: 12% OF SEED BY WEIGHT
 Glyceria occidentalis: 25% OF SEED BY WEIGHT
 Juncus balticus: 1% OF SEED BY WEIGHT

SEE SPECIAL PROVISION: "EROSION CONTROL AND WATER POLLUTION CONTROL"
 SEED APPLICATION RATE: 5 LBS./ACRE.

| SEASONALLY PONDED AREA 2 PLANTING AND HAND SEEDING (118,210 SF) | | | | |
|--|-------------------------------------|--------|--------------|----------------------|
| PLANT TYPE | SCIENTIFIC NAME | TYPE | MIN. SPACING | TOTAL |
| PSIPE - SITKA WILLOW | Salix sitchensis | 1 GAL. | 4' OC | 1,863 |
| PSIPE - SPIREA | Spiraea douglasii | 1 GAL. | 4' OC | 3,725 |
| PSIPE - SITKA ALDER | Alnus sinuata | 1 GAL. | 4' OC | 1,863 460 |
| PSIPE - MARSH CINQUEFOIL* | Potentilla palustris or P. gracilis | 1 GAL. | 3' OC | 447 |
| PSIPE - SKUNK CABBAGE* | Lysichiton americanum | 1 GAL. | 3' OC | 447 |

* PLANT EMERGENTS IN RANDOM "LIKE KIND" CLUSTER DRIFTS THROUGHOUT SEASONALLY PONDED AREA 2 PLANTING/SEEDING ABOVE ELEVATION 385 PER HATCH SYMBOL.
 * ONE CLUSTER DRIFT SHALL CONSIST OF THREE PLANTS, 3 FT. APART ON CENTER.
 * DRIFTS SHOULD BE WELL SPACED (APPROX. 20 FT. ON CENTER) AS DETAILED OR AS DIRECTED BY THE ENGINEER.

PLANTING NOTES:
 WOODY PLANTINGS ARE TO BE SPACED APPROXIMATELY 4' APART. SPECIES DISTRIBUTION IS TO BE RANDOM AND IN SINGLE-SPECIES DRIFTS CONSISTING OF 5-7 PLANTS ARE APPROPRIATE. (I.E. NOT BROKEN UP BY ALTERNATE SPECIES).

HAND SEEDING SEASONALLY PONDED AREA 2:
 SEED MIX
 Scirpus microcarpus: 1% OF SEED BY WEIGHT
 Carex obnupta: 1.5% OF SEED BY WEIGHT
 Carex aquatilis var. divisa: 28% OF SEED BY WEIGHT
 Glyceria occidentalis: 69.5% OF SEED BY WEIGHT

SEE SPECIAL PROVISION: "EROSION CONTROL AND WATER POLLUTION CONTROL"
 SEED APPLICATION RATE: 10 LBS./ACRE.

PSIPE TWINBERRY (1 GAL.) (Lonicera involucrata) - 3' OC - 700
 PSIPE SALMONBERRY (1 GAL.) (Rubus spectabilis) - 3' OC - 703

| SATURATED OR INFREQUENTLY PONDED AREA PLANTING AND HAND SEEDING (52,440 SF) | | | | |
|--|-----------------------|--------|--------------|-------|
| PLANT TYPE | SCIENTIFIC NAME | TYPE | MIN. SPACING | TOTAL |
| PSIPE - CASCARA | Rhamnus purshiana | 1 GAL. | 4' OC | 454 |
| PSIPE - PACIFIC NINEBARK | Physocarpus capitatus | 1 GAL. | 4' OC | 151 |
| PSIPE - RED TWIGGED DOGWOOD | Cornus sericea | 1 GAL. | 4' OC | 302 |
| PSIPE - BLACK HAWTHORN | Crataegus siskadoffii | 1 GAL. | 4' OC | 454 |
| PSIPE - PACIFIC CRABAPPLE | Pyrus fusca | 1 GAL. | 4' OC | 1,209 |
| PSIPE - CLUSTERED ROSE | Rosa pliocarpa | 1 GAL. | 4' OC | 302 |
| PSIPE - WESTERN REDCEDAR | Thuja plicata | 1 GAL. | 4' OC | 151 |

PLANTING NOTES:
 ALL PLANTING/SEEDINGS ARE TO BE SPACED APPROXIMATELY 4' APART. SPECIES DISTRIBUTION IS TO BE RANDOM. OCCASIONAL SINGLE-SPECIES DRIFTS CONSISTING OF 3-7 PLANTS ARE APPROPRIATE. (I.E. NEED NOT BE BROKEN UP BY ALTERNATE SPECIES).
 DITCH BOTTOMS SHALL RECEIVE HAND SEEDING ONLY AND NO PLANTS.

HAND SEEDING SATURATED OR INFREQUENTLY PONDED AREA:
 SEED MIX
 Glyceria occidentalis: 58% OF SEED BY WEIGHT
 Carex vesicaria: 27% OF SEED BY WEIGHT
 Carex obnupta: 1% OF SEED BY WEIGHT
 Festuca rubra var. rubra: 14% OF SEED BY WEIGHT

SEE SPECIAL PROVISION: "EROSION CONTROL AND WATER POLLUTION CONTROL"
 SEED APPLICATION RATE: 10 LBS./ACRE.

| NON-WETLANDS AREA PLANTING AND HAND SEEDING (11,485 SF) | | | | |
|--|-----------------------|--------|--------------|-------|
| PLANT TYPE | SCIENTIFIC NAME | TYPE | MIN. SPACING | TOTAL |
| PSIPE - INDIAN PLUM | Oemleria cerasiformis | 1 GAL. | 4' OC | 107 |
| PSIPE - SALMONBERRY | Rubus spectabilis | 1 GAL. | 4' OC | 107 |
| PSIPE - WESTERN HEMLOCK | Touga heterophylla | 1 GAL. | 4' OC | 178 |
| PSIPE - THIMBLEBERRY | Rubus parviflorus | 1 GAL. | 4' OC | 107 |
| PSIPE - RED ALDER | Alnus rubra | 1 GAL. | 4' OC | 72 |
| PSIPE - CLUSTERED ROSE | Rosa pliocarpa | 1 GAL. | 4' OC | 143 |

PLANTING NOTES:
 ALL PLANTING/SEEDINGS ARE TO BE SPACED APPROXIMATELY 4' APART. SPECIES DISTRIBUTION IS TO BE RANDOM. OCCASIONAL SINGLE-SPECIES DRIFTS CONSISTING OF 3-7 PLANTS ARE APPROPRIATE. (I.E. NEED NOT BE BROKEN UP BY ALTERNATE SPECIES). SPACING MUST BE ADJUSTED IN CONSIDERATION OF EXISTING VEGETATION.

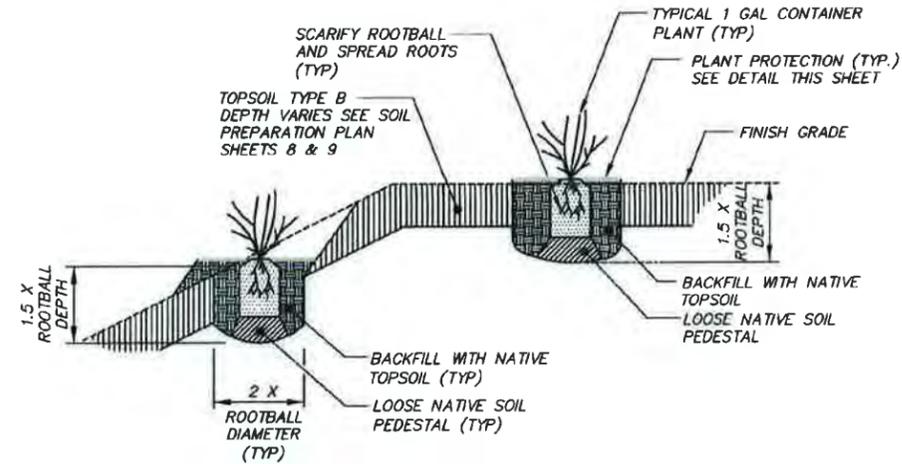
HAND SEEDING NON-WETLANDS AREA:
 SEED MIX
 BLUE WILD RYE (Elymus glaucus): 25% OF SEED BY WEIGHT
 NATIVE RED FESCUE (Festuca rubra var. rubra): 28% OF SEED BY WEIGHT
 ROEMER'S FESCUE (Festuca roemer): 25% OF SEED BY WEIGHT
 WHEATGRASS (Triticum sp.): 25% OF SEED BY WEIGHT

SEE SPECIAL PROVISION: "EROSION CONTROL AND WATER POLLUTION CONTROL"
 SEED APPLICATION RATE: 60 LBS./ACRE.

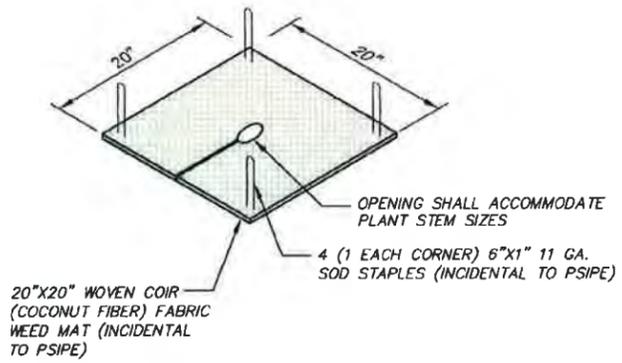
| SWALE AREA HAND SEEDING (10,970 SF) | | | | |
|--|--|--|--|--|
| HAND SEEDING SWALE AREA: SEED MIX Festuca arundinacea or Festuca elatior: 75%-80% OF SEED BY WEIGHT Agrostis palustris: 10%-15% OF SEED BY WEIGHT Agrostis alba or Agrostis gigantea: 5%-10% OF SEED BY WEIGHT | | | | |
| SEE SPECIAL PROVISION: "EROSION CONTROL AND WATER POLLUTION CONTROL" SEED APPLICATION RATE: 60 LBS./ACRE. | | | | |

GENERAL PLANTING PROCEDURE:

- PLACE TOPSOIL TYPE B PER "SOIL PREPARATION PLAN" SHEETS 9 AND 10.
- APPLY "HYDROMULCHING" AS DIRECTED BY THE ENGINEER. SEE SPECIAL PROVISION: "EROSION CONTROL AND WATER POLLUTION CONTROL".
- PLANT CONTAINER PLANTS. SEE SPECIAL PROVISION: "ROADSIDE RESTORATION".
 - REMOVE PLANT FROM POT.
 - SCARIFY ROOTBALL AND SPREAD ROOTS.
 - PLACE ROOTBALL ON LOOSE NATIVE SOIL MIX TO FORM A PEDESTAL.
 - BACKFILL WITH NATIVE SOIL AND THOROUGHLY WATER PLANT MIDWAY THROUGH BACKFILLING. WHEN PLANTING ON SLOPES, INSTALL PLANT UPRIGHT. LEVEL SOIL TO ENSURE COVER OF ROOTS ON DOWNHILL SIDE OF PLANT. ACTUAL PLANT PLACEMENT IS DESIGNED TO REPLICATE COMMUNITIES IN SPECIES COMPOSITION AND ARRANGEMENT. EVEN SPACING AND STRAIGHT ROW PLANTING IS NOT ALLOWED. PLANTS SHALL BE PLANTED PER MIN. SPACING SHOWN ABOVE. SEE SHEET 11 FOR HAND SEEDING AND PLANTING AREAS AND SHEETS 9 AND 10 FOR SOIL PREPARATION INFORMATION.
 - PLACE PLANT PROTECTION PER "TYPICAL PLANT PROTECTION DETAIL" THIS SHEET.
- APPLY "HAND SEEDING _____ AREA", PER ACRE AS SHOWN ON PLANTING PLAN SHEET 11. ALL COMPACTED AREAS SUCH AS TEMPORARY ACCESS ROADS (INCLUDING COMPACTED TOPSOIL TYPE B AREAS) SHALL BE SCARIFIED (DE-COMPACTED), AT THE CONTRACTORS EXPENSE, TO A MIN. DEPTH OF 12-INCHES PRIOR TO HAND SEEDING.



TYPICAL CONTAINER PLANT PLANTING DETAIL
 NOT TO SCALE



TYPICAL PLANT PROTECTION DETAIL
 NOT TO SCALE

RECORD DRAWING
 Project Manager: [Signature]
 Date: 12-27-13

| | | | | | |
|-------------------------------|---------------------------------|-----|------|----------|----------|
| DRAWING NO. SEE SIDE STAMP | SURVEYED BY: T. WILLE | | | | |
| DRAWN BY: E. GRIMM | DATE SURVEYED: NOV. 2010 | | | | |
| DESIGNED BY: E. GRIMM | BOOK NO. - | | | | |
| CHECKED BY: A. ZEHM, P.E. | DATE PLOTTED: SEE SIDE STAMP | NO. | DATE | REVISION | BY |
| | | | | | APPROVED |

Pierce County
 DEPARTMENT OF PUBLIC WORKS AND UTILITIES
 SURFACE WATER MANAGEMENT
 TACOMA MALL PLAZA BUILDING
 2702 SOUTH 42nd STREET, SUITE 201
 TACOMA, WA 98409-7322

APPROVED BY: [Signature]
 HAROLD SMELT, P.E. SURFACE WATER MANAGEMENT MANAGER



LARCHMONT WETLAND RESERVE

PLANTING PLAN DETAILS

C.I.P. # D200-006

SHEET **12** OF **17**

FIGURE 3B



MCKINLEY AVE.E.

PROPERTY BOUNDARY

MINIMUM 50 FOOT BUFFER BOUNDARY

EXISTING AND PROPOSED WETLAND AREAS

259.7'

96TH ST. E.

91ST ST. E.

9TH AVE. CT. E

REGULATORY BUFFER AREA
(230,218 SQUARE FEET)

LARCHMONT WETLAND RESERVE

REGULATORY WETLAND BUFFER

FIGURE 4

