



**US Army Corps
of Engineers**
Portland District

PUBLIC NOTICE for PERMIT APPLICATION

30 Day Notice

Issue Date: September 23, 2004
Expiration Date: October 25, 2004

Corps of Engineers Action ID: 200400639
Oregon Division of State Lands Number: 33180-RF

Interested parties are hereby notified that an application has been received for a Department of the Army permit for certain work in waters of the United States, as described below and shown on the attached plan.

Comments: Comments on the described work should reference the U.S. Army Corps of Engineers number shown above and should reach this office no later than the above expiration date of this Public Notice to become part of the record and be considered in the decision. Comments should be mailed to the following address:

U.S. Army Corps of Engineers
ATTN: CENWP-OP-GP (Ms. Kathryn L. Harris)
P.O. Box 2946
Portland, Oregon 97208-2946

Applicant: Mr. Gary G. Bliss
6929 SW 167th Place
Beaverton, Oregon 97007

Location: Wetland adjacent to Johnson Creek, adjacent to Commonwealth Lake, south of the intersection of SW Butner Road and SW Aragon Street, in Section 4, of Township 1 South, Range 1 West, Beaverton, Washington County, Oregon.

Project Description: The applicant proposes to fill 1.08 acres of wetland to develop a residential subdivision. To compensate for these impacts, the applicant proposes to enhance 0.96 acre of wetland and create 2.86 acres of wetland and overflow channel. The mitigation will involve 0.63 acre of excavation within existing wetlands.

If a permit is issued, the Corps will determine what is appropriate and practicable compensatory mitigation. The amount of compensatory mitigation required shall be commensurate with the anticipated impacts of the project.

Purpose: To provide upland areas for a residential subdivision.

Drawings: Figures 1-11, labeled Corps ID No. 200400639

Additional Information: Additional information may be obtained from Ms. Kathryn L. Harris, Project Manager, U.S. Army Corps of Engineers at (503) 808-4387.

Authority: This permit will be issued or denied under the following:

Section 404, Clean Water Act (33 U.S.C. 1344), for discharge of dredged or fill material into waters of the United States.

Water Quality Certification: A permit for the described work will not be issued until certification, as required under Section 401 of the Clean Water Act (P.L. 95-217), has been received or is waived from the certifying state. Attached is the state's notice advertising the request for certification.

Section 404(b)(1) Evaluation: The impact of the activity on the public interest will be evaluated in accordance with the Environmental Protection Agency guidelines pursuant to Section 404(b)(1) of the Clean Water Act.

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

Endangered Species: Preliminary determinations indicate that the described activity will not affect endangered species, or their critical habitat designated as endangered or threatened, under the Endangered Species Act of 1973 (87 Stat. 844). Formal consultation under Section 7 of the Act is not required for the described activity.

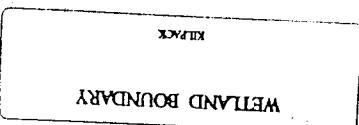
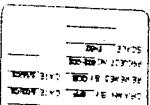
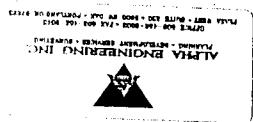
Cultural Resources: The described activity is not located on property registered or eligible for registration in the latest published version of the National Register of Historic Places. This notice has been provided to the State Historic Preservation Office.

Evaluation: The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the described activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit, which reasonably may be expected to accrue from the described activity, must be balanced against its reasonably foreseeable detriments. All factors, which may be relevant to the described activity will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, consideration of property ownership and, in general, the needs and welfare of the people.

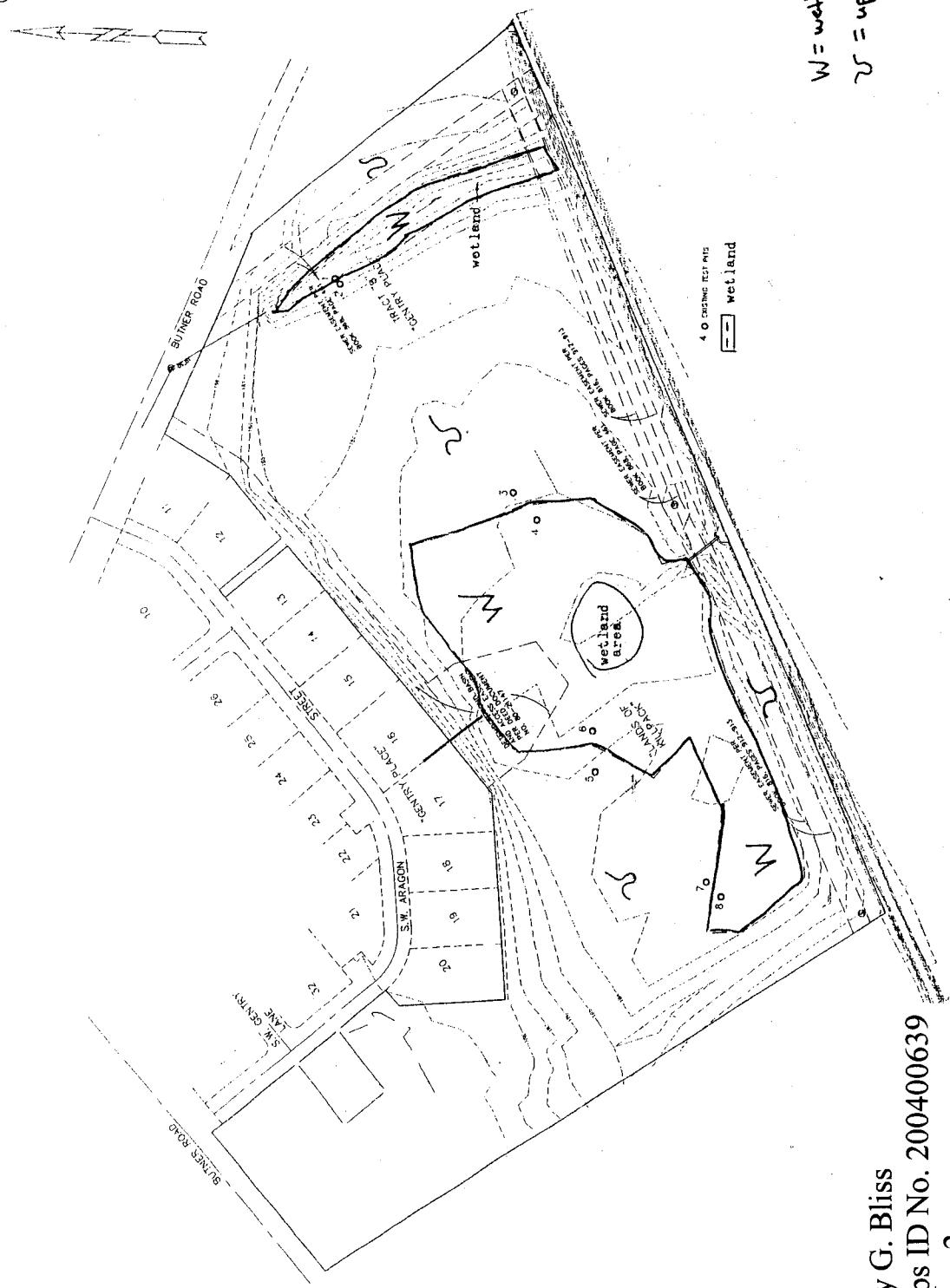
The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an

Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

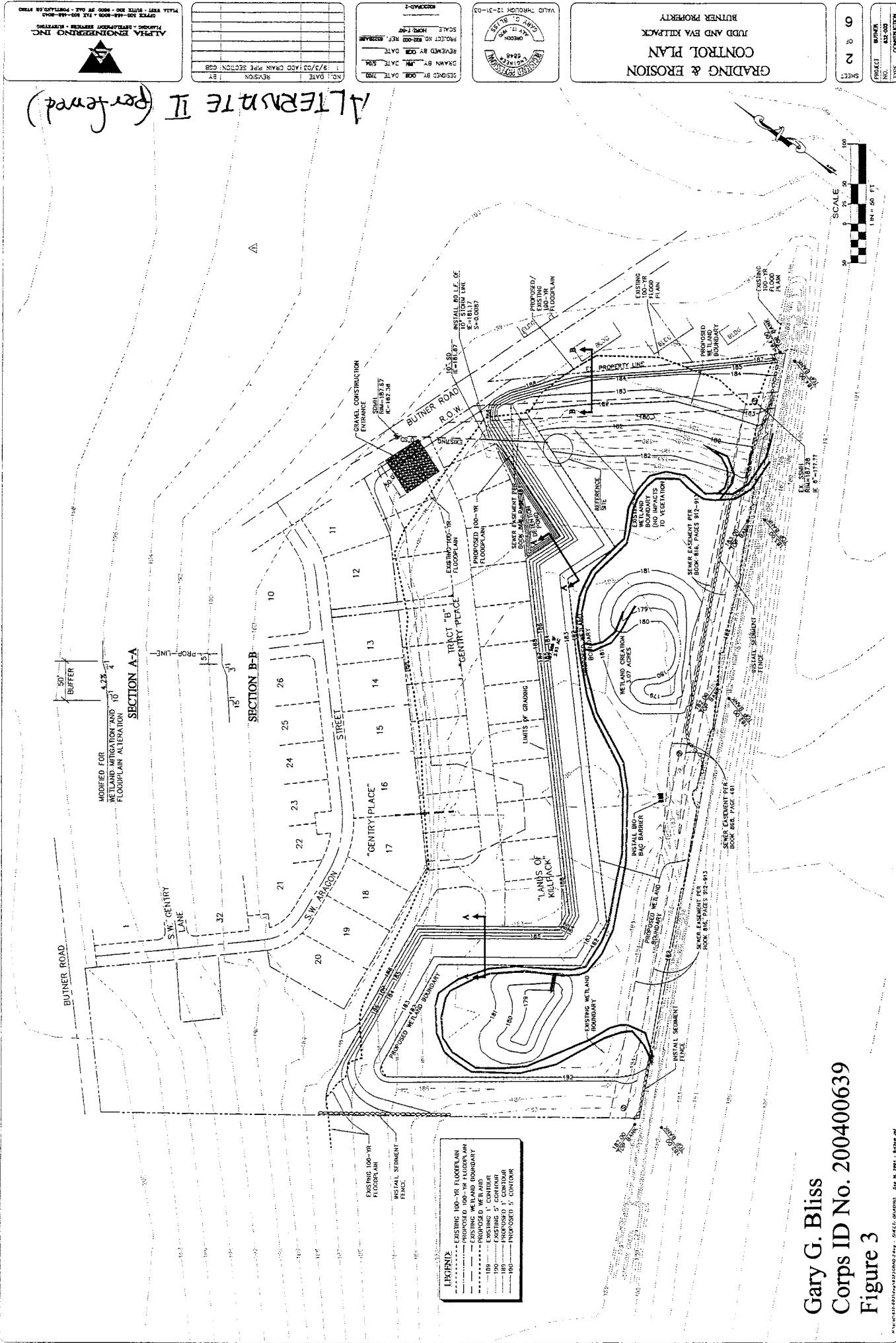
Additional Requirements: State law requires that leases, easements, or permits be obtained for certain works or activity in the described waters. These State requirements must be met, where applicable, and a Department of the Army permit must be obtained before any work within the applicable Statutory Authority, previously indicated, may be accomplished. Other local governmental agencies may also have ordinances or requirements, which must be satisfied before the work is accomplished.

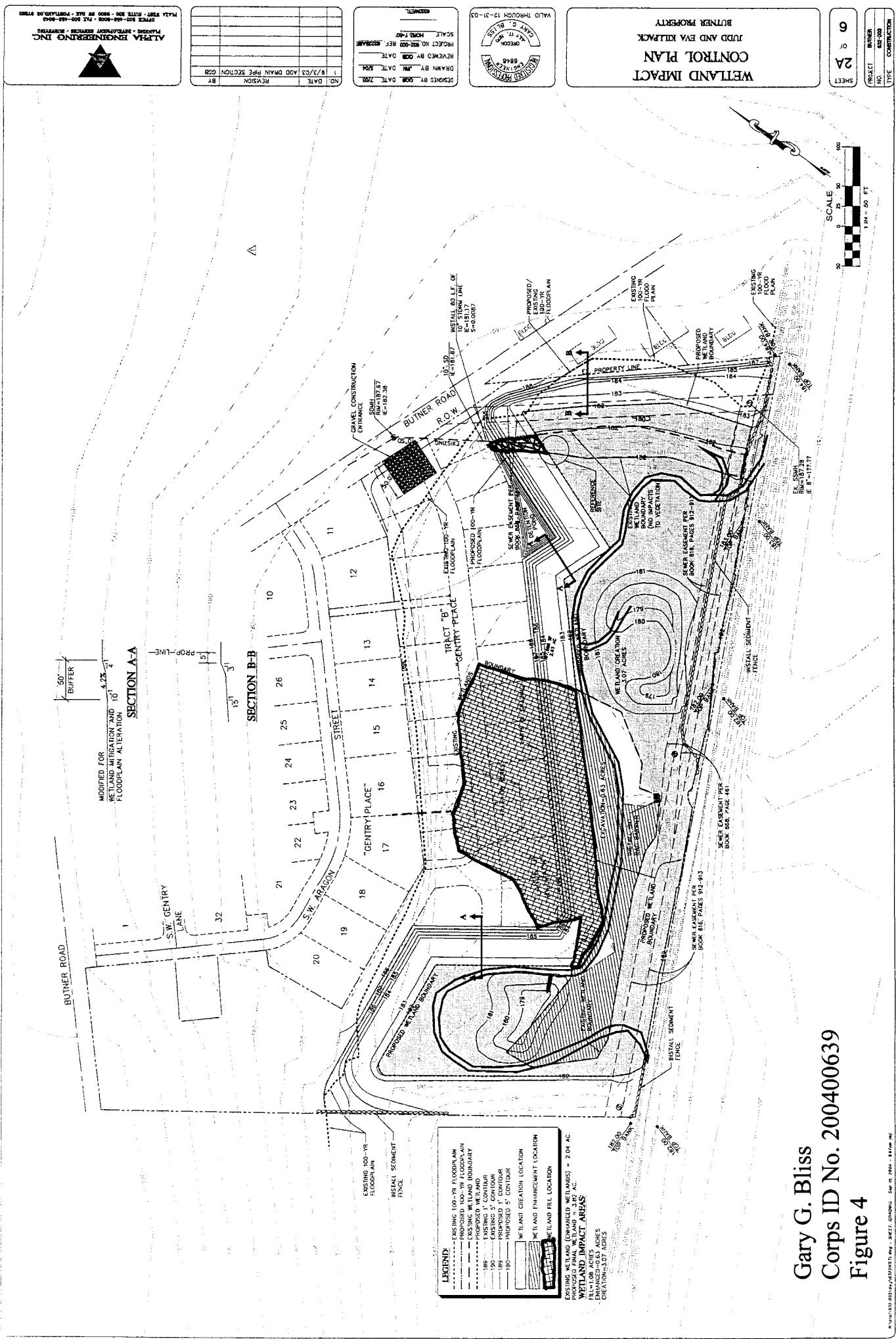


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Gary G. Bliss
Corps ID No. 200400639
Figure 2





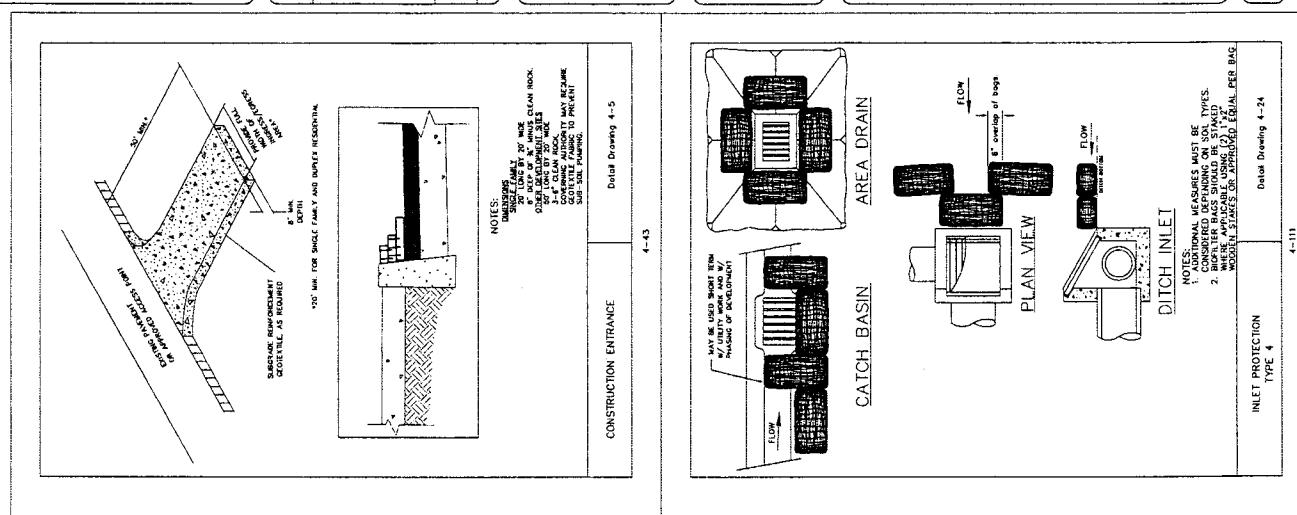


DESIGNER'S NAME	DATE
DRAWN BY	DATE
REVISED BY	DATE
PROJECT NO.	REF.
SCALE: N/A	



**EROSION CONTROL
NOTES AND DETAILS
LAND AND EVA KILIPACK**

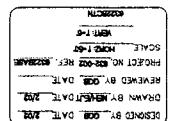
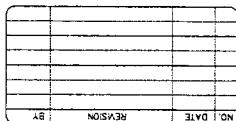
6 5 3
PROJECT BUTTER
Q. Q. 633-003
COUNTRY INDOOR



PLAN IMPLEMENTATION

MISSION CONTROL NOTES

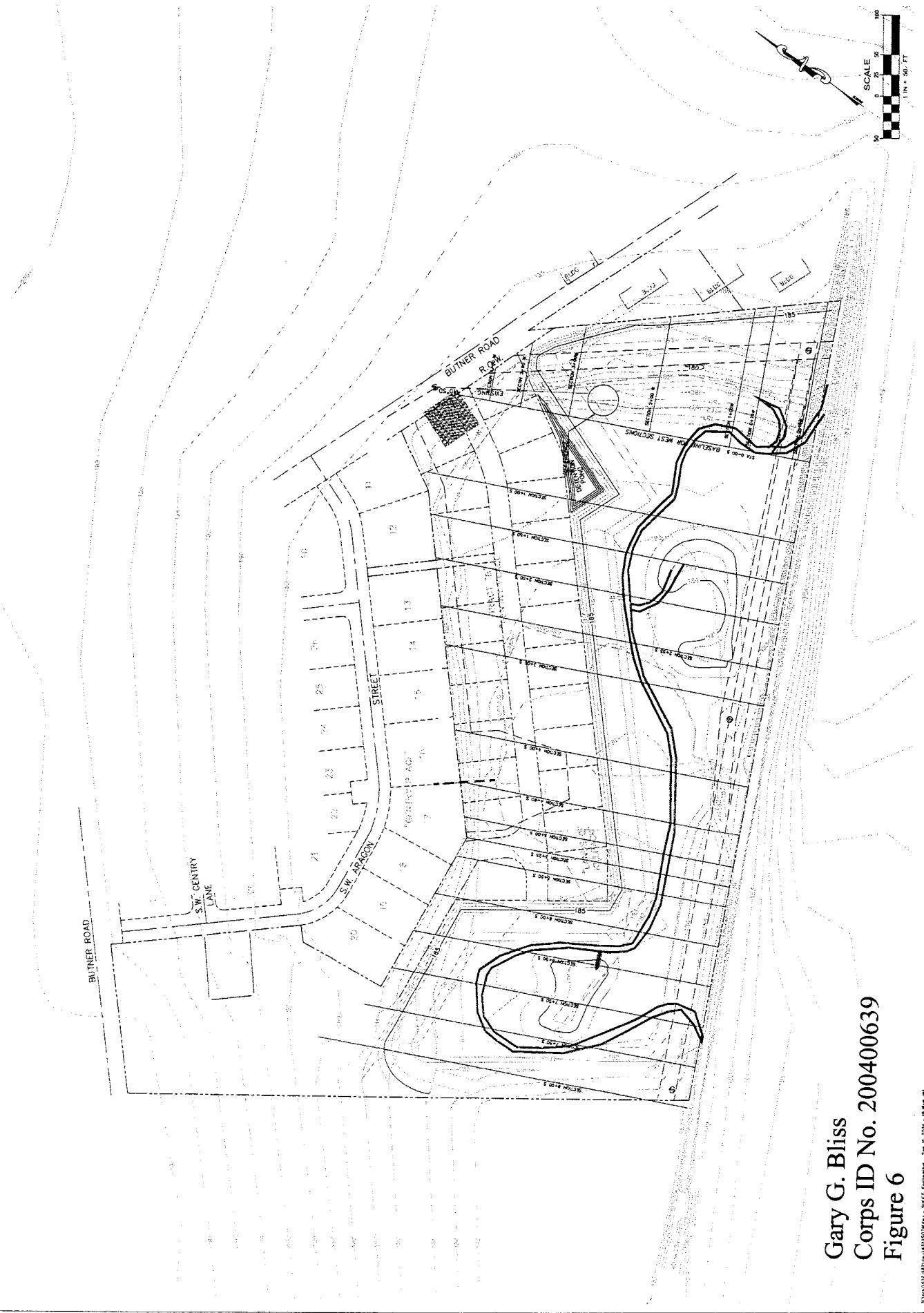
Gary J. Bliss
Corps ID No. 200400639
Figure 5



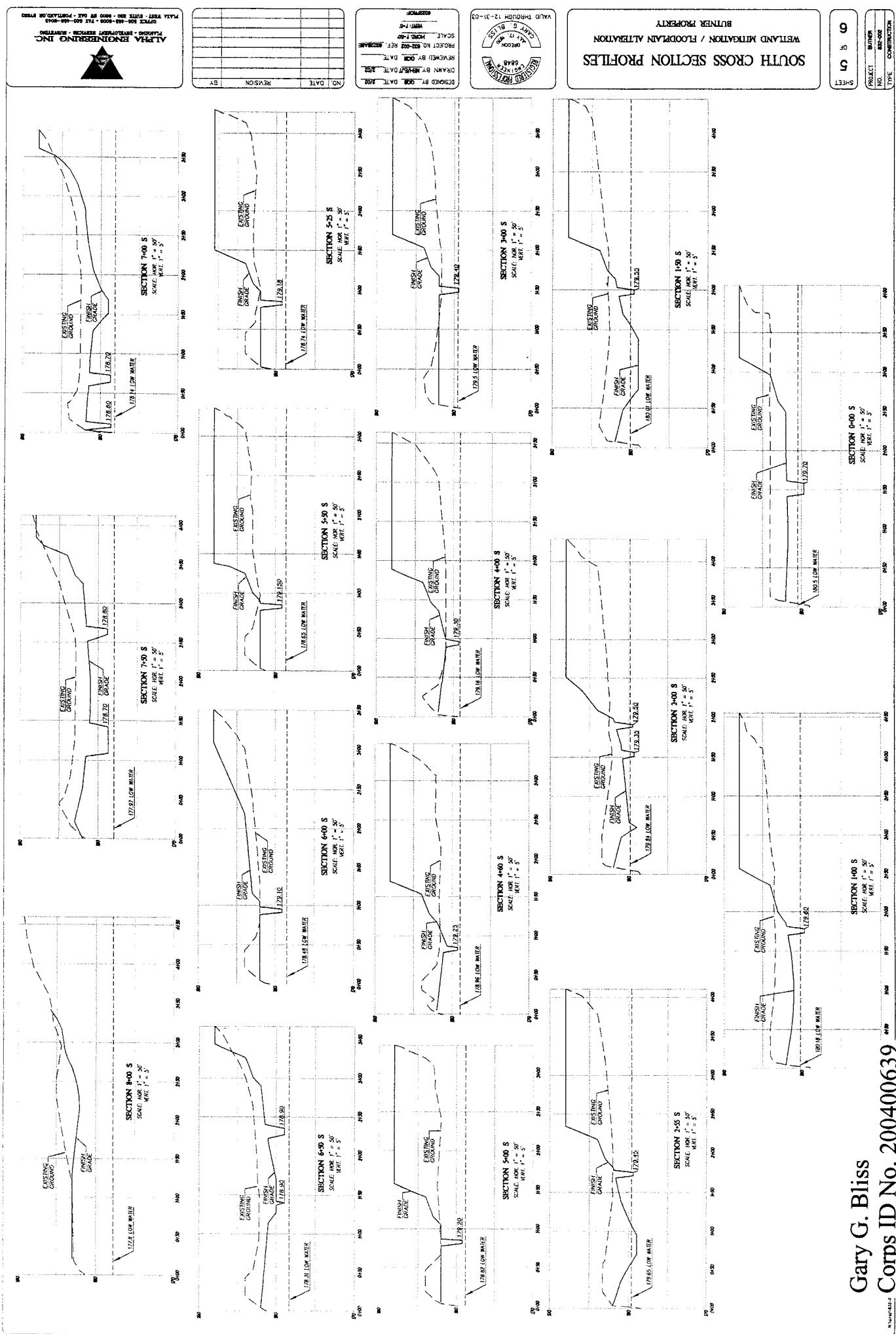
CROSS SECTION PLAN

EARTH MITIGATION / FLOODPLAIN ALTRERNATIVE
BUTTER PROPERTY

WETLAND MITIGATION / FLOODPLAIN ATTACHMENT



Gary G. Bliss
Corps ID No. 200400639
Figure 6



Gary G. Bliss
Corps ID No.
Figure 7



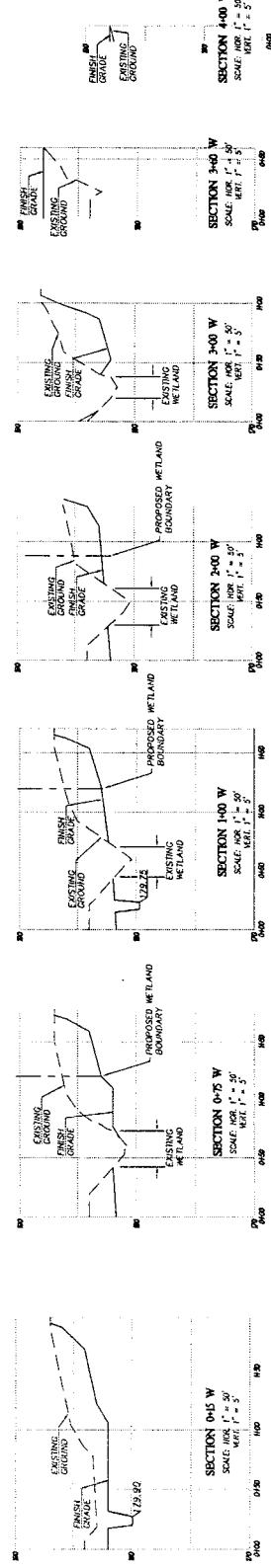
NO.	DATE	REVISION	BY

DESIGNER	WATER FLOW
SCALE NO. 1:2000	WATER FLOW
PROJEC NO. 2004-000	WATER FLOW
REMOVED BY DATE 2004	WATER FLOW
DRAWN BY DATE 2004	
DESIGNED BY DATE 2004	
PUBLISHED BY DATE 2004	

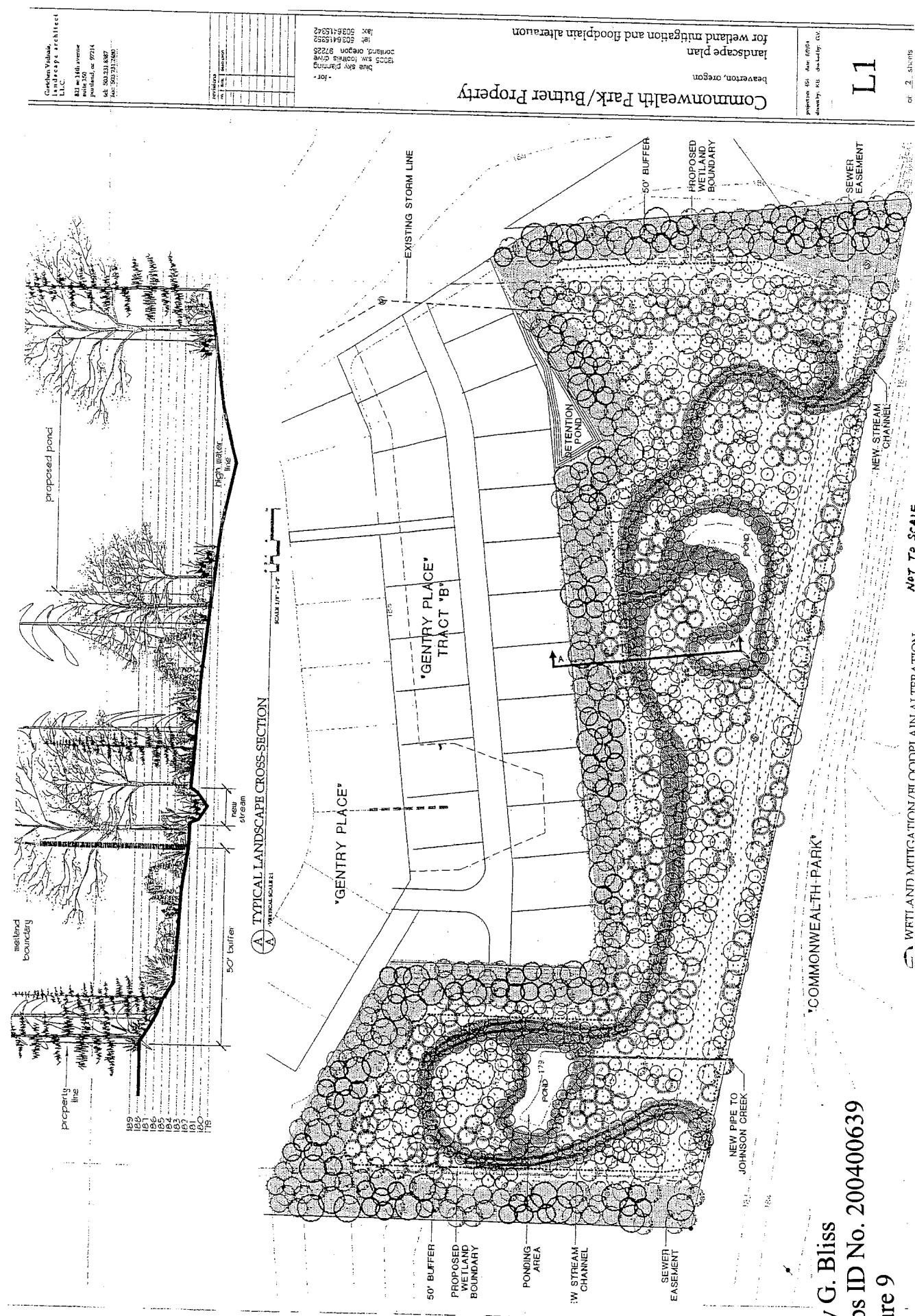


WEST CROSS SECTION PROFILES
WETLAND MITIGATION / FLOODPLAIN ALTERATION
BUTNER PROPERTY

6 of 6 SHEET
SHEET NO. 1
TYPE: CONSTRUCTION



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Figure 8

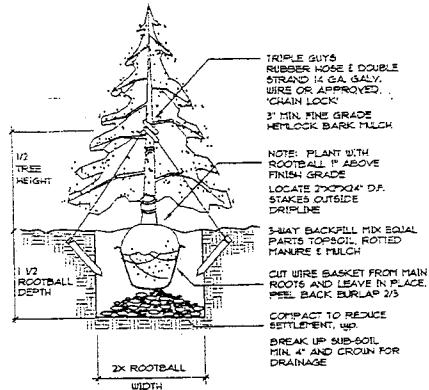


Gary G. Bliss
Corps ID No. 200400639
Figure 9

IRRIGATION NOTES

Gretchen Vadnais,
landscape architect
LLC

821 se 14th avenue
suite 150
portland, or 97214
tel: 503.231.8387
fax: 503.231.2480



3 EVERGREEN TREE PLANTING DETAIL

NTS

The diagram illustrates a cross-section of a valve assembly. At the top right is a 'VALVE BOX W/COVERS' containing a 'THEREADED ELECTRIC REMOTE CONTROL VALVE'. A 'WIRE CONNECTION' leads from the valve box down to a 'UNION COUPLE TYP. ONE SIDE'. Below this is a 'PVC PIPE TO HEADS' section. The bottom left shows a '3" GRAVEL MINIMUM' layer. A 'PVC MAINLINE' runs horizontally across the bottom. A note at the bottom left states: 'NOTE: PROVIDE DRAIN VALVE AT LOW POINT OF EACH ZONE TYP.'

5 REMOTE CONTROL VALVE DETAIL

NT

LEGEND - DRY BUFFER AREAS

SYMBOL	QUANTITY SIZE	SCIENTIFIC NAME COMMON NAME
TREES		
	(52) 1-1/2" caliper	<i>Acer macrophyllum</i> Big Leaf Maple
	(80) 4-5" bl.	<i>Pinus ponderosa</i> Ponderosa Pine
	(107) 6-8" bl.	<i>Pseudotsuga menziesii</i> Douglas Fir
	(78) 3/4" caliper	<i>Rhamnus purshiana</i> Cascara
SHRUBS		
	(200) 24" bl.	<i>Amelanchier alnifolia</i> Western Serviceberry
	(200) 1' gatoh	<i>Gaultheria shallon</i> Salal
plant in random groupings (S on center)	(325) 24" bl.	<i>Hippocrepis discolor</i> Ocean Spray
-1700 shrubs total	(450) 24" bl.	<i>Mitchella repens</i> Oregon Grape
	(150) 24" bl.	<i>Prunus pensylvanica</i> Wild Black Cherry
	(375) 24" bl.	<i>Rubus sanguineum</i> Red Flowering Currant

SEED MIXES

Seed dry/pellet areas with the following mixes. Each seed mix should be applied separately via broadcast application or hydroseeding to ensure uniform distribution. Hydroseeding after all seed has been applied. Target density = 600 seeds/m².

Scientific Name	Common Name	Mkt %	Weight
<i>Astragalus missouriensis</i>	Common Yarrow	25.5%	5.0%
<i>Astragalus megacarpus</i>	Pearly Everlasting	20.0%	1.5%
<i>Aster amellus</i>	California Aster	12.0%	3.0%
<i>Bromus tectorum</i>	Showy Sneezeweed	8.0%	2.0%
<i>Carex pumila</i>	Wetland Sedge	10.5%	.50%
<i>Luzula pilosa</i>	Large-flowered Luzine	10%	3.5%
<i>Sisyrinchium bellum</i>	Blue-Eyed Grass	15%	3.5%
<i>Scirpus americanus</i>	Canadian Goldenrod	10.5%	3.5%
* Seed native wildflower mix at 100 seeds per sq ft (15.75 lbs per acre)			
Scientific Name	Common Name	Mkt %	Weight
<i>Eryngium campestre</i>	California Eryngo	15.5%	4.0%
<i>Dianthus barbatus</i>	California Cat Grass	2.0%	5.0%
<i>Camassia esculenta</i>	Intermediate Cat Grass	2.5%	5.0%
<i>Calochortus nuttallii</i>	Big Blue Star	35.0%	35.0%
<i>Thlaspi arvense</i>	Winter Fleabane	8.0%	8.0%
<i>Festuca rubra var. rubra</i>	Native Red Fescue	7.0%	7.0%
<i>Koeleria cristata</i>	Prarie Fescue	7.0%	1.5%
* Seed native grass mix at 100 seeds per sq ft (15.75 lbs per acre)			
* Overseed at areas with Ryegrass (starts wheat grass) at 50 lbs/acre			

1. A temporary irrigation system (sufficient to ensure plant survival during the first three growing seasons) shall be provided to cover all planting areas in regulated zones and stormwater facilities. Irrigation system to be header design supplied from either of treated spray heads is required. PVI supply lines may be placed above grade if header design. Water system design to be approved by the Landowner/Architect prior to installation.
 2. Irrigation system to be repaired and tested in working order prior to the start of the first plant materials or seedling. It may be beneficial to use the irrigation system to stimulate weed growth and germination prior to herbicide application.
 3. Irrigation to be provided at a minimum rate of one inch per week over all planted areas between June 15 and October 15. Adjust watering schedule in early spring and late fall to ensure plant survival during unusually dry conditions.
 4. All valves are to be placed in approved locking valve boxes on minimum 2 cubic feet of clean rock.
 5. Irrigation prevention devices and manual shut-off valve in accordance with local codes and ordinances. All outlet check valves shall be Febco. Contractor or approved equivalent. Double check valves to be installed in locking vault on minimum 3 cubic feet of clean rock.
 6. Make provision to drain all systems. Install manual drain valve at point of connection.
 7. Submittals: At completion of project, provide owner with as-built drawing, maintenance summary and all blueprints or instructions required with equipment. As-built drawing to show location of all valves.
 8. Maintenance: During first three growing seasons, shut down and winterize system no later than November 15. Contractor shall be responsible for any damage resulting from failure to do so. Owner shall be responsible for any damage resulting from failure to turn off the lines and improper winterizing of the system during the first growing season.
 9. Guarantees: The entire system shall be unconditionally guaranteed as to materials and workmanship, including but not limited to testing of backfill areas or damage to lawns, plantings, paving, etc for a period of one year from the date of acceptance. Any areas, materials or workmanship requiring repair shall be without cost to the owner.

LEGEND - WET/MOIST AREAS

SYMBOL	QUANTITY SEE	SCIENTIFIC NAME COMMON NAME
TREES		
	(65) 1' caliper	<i>Ailanthus altissima</i> Western Red Alder
	(36) 3'-4' br.	<i>Populus trichocarpa</i> Black Cottonwood
	(93) 3'-4' br.	<i>Prunus lasiocarpa</i> Pacific Crabapple
	(70) 3'-4' br.	<i>Prunus pensylvanica</i> Cascara
	(213) live stakes	<i>Salix laevigata</i> Pacific Willow
	(118) 3'-4' br.	<i>Thuja plicata</i> Western Red Cedar
SHRUBS		
	(150) 24' br.	<i>Amelanchier alnifolia</i> Western Serviceberry
plant in random groupings (5' on center)	(200) 24' br.	<i>Lonicera involucrata</i> Twinberry
1250 shrubs total	(100) 36' br.	<i>Physocarpus capitatus</i> Pacific Ninebark
	(250) 24' br.	<i>Rosa nutkana</i> Nootka Rose
	(50) 36' br.	<i>Sambucus racemosa</i> Red Elderberry
	(400) 24' br.	<i>Symphoricarpos albus</i> Common Snowberry
HERBACEOUS PLANTS		
	(2,000) dz.	<i>Camassia esculenta</i> Camas
plant conservation plugs in random groupings (12' on center)	(1500) dz.	<i>Carex densus</i> Dense Sedge
15,000 plugs total	(1500) dz.	<i>Carex unilateralis</i> One-Sided Sedge
	(1500) dz.	<i>Gaura macrorhyncha</i> Large-Leaved Avens
	(1000) dz.	<i>Kinrossia ciliolata</i> Tapered Fush
	(2,000) dz.	<i>Luzula balansae</i> Baltic Fush
	(1000) dz.	<i>Artemisia vulgaris</i> Yellow Mulethiowher
	(1000) dz.	<i>Stellaria vulgaris</i> var. <i>sinuata</i> Native Star-Heal
	(2,000) dz.	<i>Ranunculus occidentalis</i> Western Buttercup
	(1500) dz.	<i>Salvia lyrata</i> Footh Chivesmallow

- for -
blue sky planning
30105 s.w. foothills drive
portland, oregon 97225
tel: 503.641.5352
fax: 503.641.5342

Commonwealth Park/Butner Property

beaverton, oregon

Landscape plan for wetland mitigation and floodplain alteration

project no. 454 date: 6/9/04

Gary G. Bliss
Corps ID No. 200400639
Figure 10

CWS SPECIFIC CONDITIONS

- As conditions and circumstances so require, in addition to Clean Water Services project requirements and specific conditions, for a complete listing of these requirements please refer to the City of Forest Grove Landscaping Requirements (LRO) 04-2002.
- Prior to any site clearing, grading, or earthmoving activities, the Contractor shall submit a plan showing the proposed drainage system, berms or protection of the outer boundary of the converted Sensitive Area and Vegetated Corridor per approved plan. During construction, the outer boundary of the converted Sensitive Area and Vegetated Corridor shall remain undisturbed except as allowed in section 2024.6 and per approved plans.
- Plants shall be tagged for dormant season identification. Tags to remain on plant material after installation for monitoring purposes.
- Clean Water Services shall be notified 72 hours prior to the start and completion of enhancement/restoration activities. Enhancement/restoration activities shall begin with the guidance in Landscape Requirements (LRO 04-2002 Appendix E).

- Protects the vegetated corridors and associated sensitive areas shall be developed in accordance with the design standards established by the development and the outer limits of the vegetated corridors. Signs shall meet the requirements of Standard Detail No. 275 and may be available for purchase from the District.

MAINTENANCE NOTES

Provide maintenance to stormwater facilities and/or vegetated buffers as necessary for a period of 2-3 years to meet Clean Water Services Requirements.

Schedule: Maintenance inspections shall be conducted at a minimum of 4 dates per year (minimum three per growing season and one prior to onset of growing season).

Mowing: Stormwater facilities (above high water line) and vegetated buffers to be mowed 1-2 times per year (July 15-August 15 and September 15) to discourage annual weeds from setting seed. Mowing is generally not required after 2-3 years. Stormwater facilities (below high water line) are not to be mowed.

Pruning: Trees, shrubs and groundcovers are only to be pruned if overall health of the plant or stand is maintained (such as removing dead wood). If necessary, pruning or thinning of branches is to be pruned and removed to the site and make all pruning cuts according to best accepted practice. Do not tip back or shear woody plants in any manner.

Mulch: All woody plants (trees, shrubs) to receive an 8" diameter circle of coarse wood chips around the base of the plant and 6" in width. Subsequent: Wood chip layer to be 3" deep. Replace chips as necessary during the maintenance period to maintain 2" mulch depth.

Weed Control: Weed removal will be necessary through the maintenance period, or until a healthy stand of desirable vegetation is established. During removal of invasive vegetation, care shall be taken to minimize impacts to the native vegetation. Removal methods may include hand pulling, hoeing, or other mechanical methods, timely cutting or tilling with a propane torch (when weeds are between the lower bed and bloom stage), herbicide application, or spot treatment with a phosphate-based herbicide (Roundup/Aquaslate or equivalent). Place all cut lower stalkized weeds in a plastic bag and remove from the field (soil containing seeds can become viable on the stem after cutting and should not be left on site).

Reseeding: Care shall be taken during all maintenance efforts not to dislodge existing plants, soil and mulch materials. Any soil disturbed during maintenance activities to be immediately resown with the specified native grass/seed/butter mix.

Plant replacement: All dead, diseased, or other plants not having been replaced during the maintenance period. Prior to replacement, the cause for loss should be determined. Upon determining the cause, correct the problem (e.g. amend soil, provide wildlife protection, modify species selected) and then replace the plant. If no immediate action is necessary, place the plant in a pot and store it in the acceptable plant area (labeled). The Owner shall request all different planting at the next appropriate planting opportunity and the two year maintenance period shall begin again from the date of replanting.

Wildlife protection: Appropriate measures should be taken to discourage wildlife browsing. Biodegradable plastic mesh tubing or other substrate approved by the Agency/City, should be placed around individual trees and shrubs to prevent browsing by wildlife, including bears, hawks, deer, mice and voles.

MAINTENANCE SCHEDULE

Maintenance inspections shall be conducted a minimum of four times per year (three per growing season and one prior to onset of growing season). Clean Water Services shall be notified of any potential problems that have been established (after 3 years), only yearly monitoring is required to ensure the planting is healthy.

Perform maintenance inspections in accordance with the following schedule:

February 15 – March 1 (prior to onset of growing season)

1. Assess general condition of planting and determine any deficiencies or weed problems. If any deficiencies or weed problems are noted, we need to be addressed during the growing season. (Serious weed problems may require more frequent maintenance inspections than outlined below).

2. Inspect plantings for significant damage from pests, diseases or wildlife browsing and take corrective actions(s) as necessary.

April 1 – April 15

1. Provide weed control in accordance with maintenance notes.

2. Verify irrigation system operational and in good working condition. Program irrigation system for early spring watering if conditions are unusually dry.

3. Inspect plantings for significant damage from pests, diseases or wildlife browsing and take corrective actions(s) as necessary.

June 1 – June 15

1. Provide weed control in accordance with maintenance notes.

2. Verify irrigation system operational and in good working condition. Program irrigation system for early spring watering if conditions are unusually dry.

3. Remove any areas that have been disturbed by maintenance practices or otherwise not showing uniform germination or target density. As needed, to be reseeded with the original native grass/butter mix as specified in the construction drawings.

4. Inspect plantings for significant damage from pests, diseases or wildlife browsing and take corrective actions(s) as necessary.

July 15 – August 15

1. Provide weed control in accordance with maintenance notes. Mow all seeded areas to a height of 6-10 inches for annual weeds.

2. Verify irrigation system operational and in good working condition.

3. Remove any areas that have been disturbed by maintenance practices or otherwise not showing uniform germination or target density. As needed, to be reseeded with the original native grass/butter mix as specified in the construction drawings.

4. Inspect plantings for significant damage from pests, diseases or wildlife browsing and take corrective actions(s) as necessary.

September 1 – September 15 (Optional)

1. Repeat mowing of all seeded areas to a height of 6-10 inches to control annual weeds.

November 15 – November 30

1. Verify irrigation system.

2. Replace any dead, diseased, or other plants not thriving with bare root stock at the originally specified size.

INSTALLATION SCHEDULE

The following is the optimal installation schedule for planting vegetated buffers and/or maximum weed control methods. If the conditions cannot be met, supplemental or additional weed control methods may be necessary to ensure the success of the planting.

February 15 – May 15

1. Assess existing site conditions and prepare specific plan for removing existing vegetation and noxious weeds.

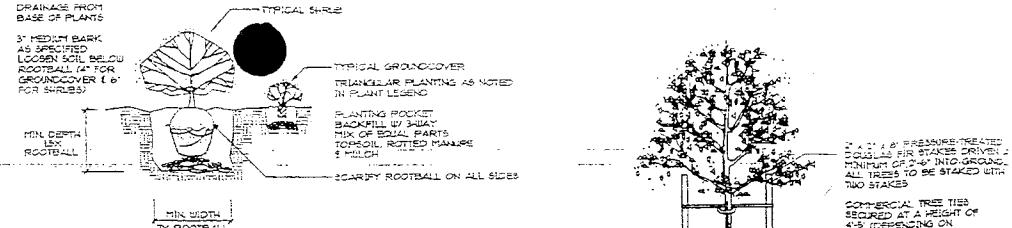
2. Remove weeds according to site preparation notes during active growing season. Do not let any weeds go to seed during the period.

May 15 – June 15

1. Prepare site for seeding according to planning and installation notes. Amend all areas with specified seed/backfiller mix. All seedling to be immediately followed with hydroseeding.

November 1 – November 30

1. Install all bare root plantings (trees, shrubs, herbaceous plugs) as soon as dormant season begins.



1 SHRUB AND GROUNDCOVER DETAIL SECTION N.T.S.

SITE PREPARATION NOTES

1. Site preparation and landscape insulation shall meet Clean Water Services Landscape Requirements (RLO 04-2002 Appendix D) and all related Design and Construction Notes. For specific information on erosion/drainage control, refer to the cell drawings.

2. Weeds shall be eradicated prior to planting. Significant weed growth is to be hand pulled and removed or treated to simulate new growth prior to herbicide application. Weed control measures to begin in spring prior to any seed formation and continue as necessary until the seed bank is reasonably eradicated (usually 6 months). Herbicide application in 3-4 months after seed formation is recommended to reduce the chance of new weeds from reseeding during site preparation. Glyphosate-based herbicides (Roundup/Aquaslate or equivalent) are preferred.

a. All herbicides to be used in full accordance with the manufacturer's instructions and all applicable local state and federal regulations.

b. All herbicides to be applied by hand with directed, low volume, single wand sprayers, wiper, dousing and painting equipment, or injection systems.

c. Do not use herbicides when any of the following conditions are present: air temperature over 30 degrees Fahrenheit, sunny, rain expected within 72 hours of application, wind speed above 8 mph, etc. Use of surfactant (R-O-t or equivalent) is recommended to improve overall effectiveness of herbicides.

d. A 1% surfactant may be used in the cultural mix in order to identify treated plants.

e. No herbicide applications allowed below the high water line at stormwater facilities.

f. Refer to Land Vessel Vegetation and Animal Management Guidance (Clean Water Services, March 2002) for more specific information on herbicide application and eradication strategies for isolated points of concern (Canada Thistle, Traveller's Joy, Scots Broom, Common Teasel, English Ivy, Giant Hogweed, Purple Loosestrife, Reed Canary Grass, Japanese Knotweed, Himalayan Blackberry, Thistle, Knapweed, Phragmites).

g. If weeds or the existing seed bank cannot be eradicated during the active growing season, existing toxic may need to be stopped and removed from the site to reduce noxious weed conditions.

3. Landscape Contractor to submit the following soil assay test for review by the Landscape Architect prior to installing plant material. All soil assays to be conducted AFTER thorough mixing of the soil as specified in the soil test instructions. See the following:

a. Soil Fertility & Chemical Soil Analysis (major and micro-nutrients, cation exchange, excessive salts, etc.)

b. Microbial Activity (soil biovolume analysis)

c. Warm Seed Germination Test (to ensure toxic is reasonably free of weed seeds).

4. Minimum soil preparation for stormwater facilities shall consist of the incorporation of 2" of commercial compost into the top 4" of topsoil (above high water line). Other amendments to be incorporated below the high water line in stormwater facilities.

5. Additional soil preparation with vegetated buffers or stormwater facilities to be determined according to the results of soil testing as required above.

PLANTING & INSTALLATION

1. Grading: Final rough grades will be established by the General Contractor. Landscape Contractor to be responsible for fine finish grades and ensuring that surface and stormwater runoff flows are functioning as designed. Top of mulch at all planting beds to be 1" below top of curb or adjacent paving (where applicable).

2. Plant Material: All plant material shall be nursery grown under optimal conditions similar to or better than those at the site. All plants to be disease-free, insect-free, and free of weeds, insects, insect eggs and larvae, mechanical injury, or other objectional features when planted.

3. Trees: All trees shall be healthy grown nursery stock conforming in size and grade with the standard for nursery stock ANSI 2601-1990 1900 ed. All trees that have a single straight trunk and a well-developed leader with tops and mid-lengths of the species, culture or variety. Bare root trees shall be root bound and have a high survival and healthy growth. Balled and burlap (BAB) stock shall have a natural round root ball sufficient to insure survival and healthy growth.

4. Topsoil: All topsoil (existing or imported) to be fertile, friable, and free of noxious weeds and debris. All perry areas to have a minimum topsoil depth of 12". For additional requirements, see site preparation notes.

5. Fertilizer: 10-15-10 slow release on street trees or ornamental plants within the development. No fertilizer to be used on native plants within vegetated buffers or stormwater facilities.

6. Mulch: Minimum 2" commercial compost worked into top 4" of topsoil prior to planting in stormwater facilities (above high water line) and in ornamental landscape areas within the development. Minimum of 3" diameter circle of mulch around each tree or shrub (excluding hydroseeding, hydromulching, and shrub in vegetated buffers). No mulch to be used below high water line in stormwater facilities.

7. Erosion: Stones, mortar, rubble, and any material harmful to life are to be removed from all planting areas (including weed thickets).

a. All planting areas to be raised smooth prior to planting.

b. All planting holes to be twice the diameter of the plant root ball and 12" deep. Roots to be spread out and not twisted.

c. All plants to be watered in when the planting holes have been half-filled with soil. The irrigation system if present is not to be used to water plants.

d. Apply fertilizer if indicated when the planting hole is 24" full.

e. All plants to be secured with mycorrhizal at time of planting. Product to be either root dip gel for bare root stock or "m-rills" granular formula for containerized stock manufactured by The Roots Company (local distributor: Oregon Soil Supply, 2600 NE Glisan Drive, Portland, Oregon, 97200-4200). Mycorrhizal inoculant to be applied according to manufacturer's recommendations.

f. Finished planting level of plants to be at or slightly above level grown in nursery.

g. Do not bury trees or deep-rooting shrubs on top of pipe segments. Landscape Architect to be contacted if such pipe alignments vary from that shown on the plans.

h. Landscape Architect shall inspect all plantings and give written approval before owner will accept the landscaping work from the General Contractor as being satisfactorily complete.

8. Seeding: Seed with native grass/seed mix as specified.

a. Not seedling to be applied with irrigation system. Irrigation system must be directed to water site prior to application of seed. Increasing native grasses and wildflowers is not recommended if the soil surface is dry and dusty.

b. Re-seed site if necessary due to poor germination or dryness.

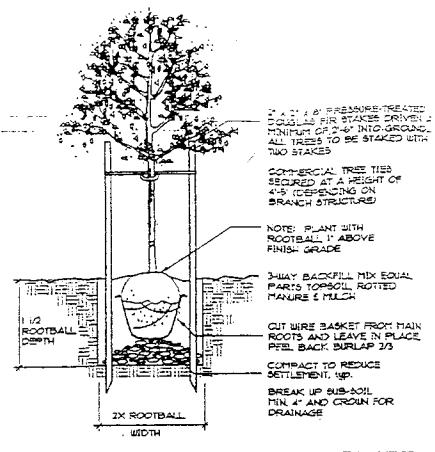
c. Apply mulch to site to be hydroseeding using a certified weed free mix (check with your green dyer) at a rate of 20 tons per acre.

d. Any areas not sown as planned but disturbed during the construction process shall be reseeded with an appropriate weed mix as shown in the plant plan. This may include construction signs areas outside the defined lines of construction.

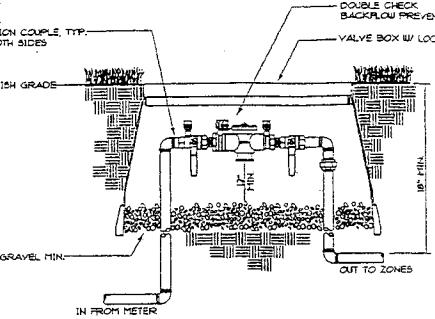
9. Maintenance: Begin maintenance immediately after plantings and site is planted. Protect and monitor plantings for a period of 60 days after acceptance. Water, weed, cultivate, maintain mulch, and reset plants to proper grades and usage positions as needed. (For long-term maintenance requirements see additional maintenance notes).

10. Guarantee: Guarantee all plant material and fall coverage for duration of one full growing season or for one year, whichever is longer. Replace plant materials not surviving in poor condition, except any loss or damage due to freezing, vandalism, or acts and negligence on the part of contractor.

* Overseed all areas with Rye grass (seeding rate 50 lbs/acre) as soon as dormant season begins.



2 DECIDUOUS TREE PLANTING DETAIL SECTION N.T.S.



4 DOUBLE CHECK VALVE DETAIL SECTION N.T.S.

LEGEND - EMERGENT AREAS

SYMBOL	QUANTITY	SCIENTIFIC NAME / COMMON NAME
TREES		
(19) 3' br.	(19)	<i>Crataegus douglasii</i> Douglas Hawthorn
(64) 7' caliper	(64)	<i>Fraxinus latifolia</i> Oregon Ash
(155) live stakes	(155)	<i>Salix sitchensis</i> Sitka Willow
SHRUBS		
plant in random groupings (5' on center)	(845) 24" dz.	<i>Cornealian cornelian</i> Red Cedar Dogwood
	(925) 24" dz.	<i>Spiraea douglasii</i> Douglas Spirea
HERBACEOUS PLUGS		
(1650) dz.	(1650)	<i>Calystegia soldanella</i> Sweet Bindweed
(2500) dz.	(2500)	<i>Erodium cicutarium</i> Common Spike Rush
(2000) dz.	(2000)	<i>Juncus ensiger</i> Dagger-Leaf Rush
(2500) dz.	(2500)	<i>Osmunda cinnamomea</i> Water Parsley
(4,000) dz.	(4,000)	<i>Coptis trifolia</i> Vaccaria
(2,000) dz.	(2,000)	<i>Solidago speciosa</i> Sonic Solidum
(2,000) dz.	(2,000)	<i>Scrophularia nodosa</i> Burfud
(2,000) dz.	(2,000)	<i>Veronica americana</i> American Brooklime
SEED MIXES		
Seed emergent zones with the following mixes: Emergent seed mix should be applied separately via broadcast application or hydroseeding to ensure uniform germination. Hydroseeding after seed has been applied. Target density = 200 seeds per square foot.		
Scientific Name	Common Name	May 16
<i>Scirpus cyperinus</i>	American Sedge	20.0%
<i>Carex concava</i>	Common Sedge	20.0%
<i>Desmodium sessilifolium</i>	Turkeygrass	10.0%
<i>Grindelia occidentalis</i>	Western Marigold	35.0%
<i>Juncus occidentalis</i>	Bunches Rush	15.0%

PUBLIC NOTICE
Oregon Department of Environmental Quality
Water Quality 401 Certification

Corps of Engineers Action ID Number: 200400639
Oregon Division of State Lands Number: 33180-RF

Notice Issued: September 23, 2004
Written Comments Due: October 25, 2004

WHO IS THE APPLICANT: Gary G. Bliss

LOCATION OF CERTIFICATION ACTIVITY: See attached U.S. Army Corps of Engineers public notice

WHAT IS PROPOSED: See attached U.S. Army Corps of Engineers public notice on the proposed project

NEED FOR CERTIFICATION: Section 401 of the Federal Clean Water Act requires applicants for Federal permits or licenses to provide the Federal agency a water quality certification from the State of Oregon if the proposed activity may result in a discharge to surface waters.

DESCRIPTION OF DISCHARGES: See attached U.S. Army Corps of Engineers public notice on the proposed project

WHERE TO FIND DOCUMENTS: Documents and related material are available for examination and copying at Oregon Department of Environmental Quality, Water Quality Division, 811 S.W. 6th Avenue, Portland, Oregon 97204

While not required, scheduling an appointment will ensure documents are readily accessible during your visit. To schedule an appointment please call Alice Kavajecz at (503) 229-6962.

Any questions on the proposed certification may be addressed to the 401 Program Coordinator at (503) 229-5845.

PUBLIC PARTICIPATION:

Public Hearing: Oregon Administrative Rule (OAR) 340-48-0020 (6) states that "The Director shall provide an opportunity for the applicant, any affected state, or any interested agency, person, or group of persons to request or petition for a public hearing with respect to certification applications. If the Director determines that new information may be produced thereby, a public hearing will be held prior to the Director's final determination. Instances of doubt shall be resolved in favor of holding the hearing. There shall be public notice of such a hearing."

Written comments:

Written comments on the proposed certification must be received at the Oregon Department of Environmental Quality by 5 p.m. on (full date). Written comments should be mailed to Oregon Department of Environmental Quality, Attn: 401 Program Coordinator, 811 S.W. 6th Avenue, Portland, Oregon 97204. ***People wishing to send written comments via e-mail should be aware that if there is a delay between servers or if a server is not functioning properly, e-mails may not be received prior to the close of the public comment period.*** People wishing to send comments via e-mail should send them in Microsoft Word (through version 7.0), WordPerfect (through version 6.x) or plain text format to 401publiccomments@deq.state.or.us. Otherwise, due to conversion difficulties, DEQ recommends that comments be sent in hard copy.

WHAT HAPPENS NEXT: DEQ will review and consider all comments received during the public comment period. Following this review, the permit may be issued as proposed, modified, or denied. You will be notified of DEQ's final decision if you present either oral or written comments during the comment period. Otherwise, if you wish to receive notification, please call or write DEQ at the above address.

ACCESSIBILITY INFORMATION: This publication is available in alternate format (e.g. large print, Braille) upon request. Please contact DEQ Office of Communications and Outreach at (503) 229-5317 or toll free within Oregon at 1-800-452-4011 to request an alternate format. People with a hearing impairment can receive help by calling DEQ's TTY at (503) 229-6993.