US Army Corps of Engineers
Seattle District

WASHINGTON STATE DEPARTMENT OF ECOLOGY

Joint Public Notice

Application for a Department of the Army Permit and a Washington Department of Ecology Water Quality Certification and/or Coastal Zone Management Consistency Concurrence

US Army Corps of Engineers
Regulatory Branch
Post Office Box 3755
Seattle, WA 98124-3755
Telephone (360) 734-3156
Attn: Randel Perry
Project Manager

WA Department of Ecology
SEA Program
Post Office Box 47600
Olympia, WA 98504-7600
Telephone (360) 407-6068
Attn: SEA Program
Federal Permit Coordinator

Public Notice Date: May 21, 2015
Expiration Date: June 20, 2015

Reference No.: NWS-2008-290
Name: Socco Forest Products, Inc.

Interested parties are hereby notified that the U.S. Army Corps of Engineers (Corps) and the Washington Department of Ecology (Ecology) have received an application to perform work in waters of the U.S. as described below and shown on the enclosed drawings dated May 1, 2015. The Corps will review the work in accordance with Section 404 of the Clean Water Act (CWA). Ecology will review the work pursuant to Section 401 of the CWA, with applicable provisions of State water pollution control laws and the Coastal Zone Management Act.

APPLICANT: Socco Forest Products, Inc.
601A West Front Street
Sumas, Washington 98295
ATTN: Mr. Gary Jones
Telephone: (360) 988-4900

AGENT: Douglass Consulting
3518 Fremont Avenue North, #536
Seattle, Washington 98103
ATTN: Ms. Desiree Douglass
Telephone: (206) 545-7394

LOCATION: In wetlands at 601A West Front Street, Sumas, Washington

WORK: Fill 4.45 acres of wetlands.

PURPOSE: Expand an existing wood treatment facility.

ADDITIONAL INFORMATION: Project involves the filling and grading of a total of six acres of the subject property for construction of buildings, roads, utilities, and stormwater treatment facilities. Wetlands targeted for fill are palustrine emergent systems previously used for agricultural purposes. Wetland fill is requested to provide area for expanding facilities contiguous to existing wood treatment facilities. NOTE: A permit for the work was previously issued to Sumas Properties on March 25, 2009. The project was never constructed and the project site has changed ownership.

MITIGATION: To compensate for impacts to wetlands and buffers, the applicant previously proposed, and has subsequently undertaken, rehabilitation of 9.2 acres of wetlands and 3.8 acres of associated buffers, previously drained and used for agriculture, at an offsite location.

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 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. The Corps has made a determination of no effect for endangered or threatened species, and their critical habitat. 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). The proposed action would not impact EFH in the project area. The Corps has determined that the proposed action will not adversely affect designated EFH for federally managed fisheries in Washington waters. No further EFH consultation is necessary.

CULTURAL RESOURCES: The Corps has reviewed the latest published version of the National Register of Historic Places, lists of properties determined eligible and other sources of information. Known historic properties occur in the vicinity of the proposed project. However, they do not occur in the permit area. The proposed work is of such a limited nature and extent and the subject property has been so extensively modified by historic development that little likelihood exists for the proposed project to impinge upon an undisturbed historic property. The Corps invites responses to this public notice from Native American Nations or Tribal governments; Federal, State, and local agencies; historical and archeological societies; and other parties likely to have knowledge of or concerns with historic properties in the area. This public notice initiates consultation under Section 106 of the National Historic Preservation Act with any Tribe that has information or concerns with historic properties in the proposed permit area.

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.

EVALUATION – CORPS: The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts, of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal 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, considerations of property ownership, and, in general, the needs and welfare of the people.

The Corps is soliciting comments from the public; Native American Nations or Tribal governments; Federal, State, and local agencies and officials; and other interested parties in order to consider and evaluate the impacts of this activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition or deny a permit for the work. 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 activity.

The described discharge will be evaluated for compliance with guidelines promulgated by the Environmental Protection Agency under authority of Section 404(b)(1) of the CWA. These guidelines require an alternatives analysis for any proposed discharge of dredged or fill material into waters of the U.S.

SOURCE OF FILL MATERIAL: The source of the sand and gravel fill material will be a local commercial pit.

EVALUATION—ECOLOGY: Ecology is soliciting comments from the public; Federal, Native American Nations or Tribal governments, State, and local agencies and officials; and other interested parties in order to consider and evaluate the impacts of this activity. Ecology will be considering all comments to determine whether to certify or deny certification for the proposed project.

ADDITIONAL EVALUATION: This proposal is the subject of Shorelines Substantial Development Permit issued by the City of Sumas.

COMMENT AND REVIEW PERIOD: Conventional mail or e-mail comments on this public notice 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 proposal. In order to be accepted, e-mail comments must originate from the author's e-mail account and must include on the subject line of the e-mail message the permit applicant's name and reference number as shown below. Either conventional mail or e-mail comments must include the permit applicant's name and reference number, as shown below, and the commentor's name, address, and phone number. All comments whether conventional mail or e-mail must reach this office, no later than the expiration date of this public notice to ensure consideration.

Corps Comments: All e-mail comments should be sent to randel.j.perry@usace.army.mil. Conventional mail comments should be sent to U.S. Army Corps of Engineers, Regulatory Branch, Attention: Mr. Randel Perry, P.O. Box 3755, Seattle, Washington 98124-3755.

Ecology Comments: Any person desiring to present views on the project pertaining to a request for water quality certification under Section 401 of the CWA and/or Coastal Zone Management consistency concurrence, may do so by submitting written comments to the following address: Department of Ecology, Attention: SEA Program – Federal Permit Coordinator, P.O. Box 47600, Olympia, Washington 98504-7600, or e-mail to ecyrefedpermits@ecy.wa.gov

To ensure proper consideration of all comments, responders must include the following name and reference number in the text of their comments: Socco Forest Products, Inc., Corps Reference # NWS-2008-290.

Encl: Figures (11)

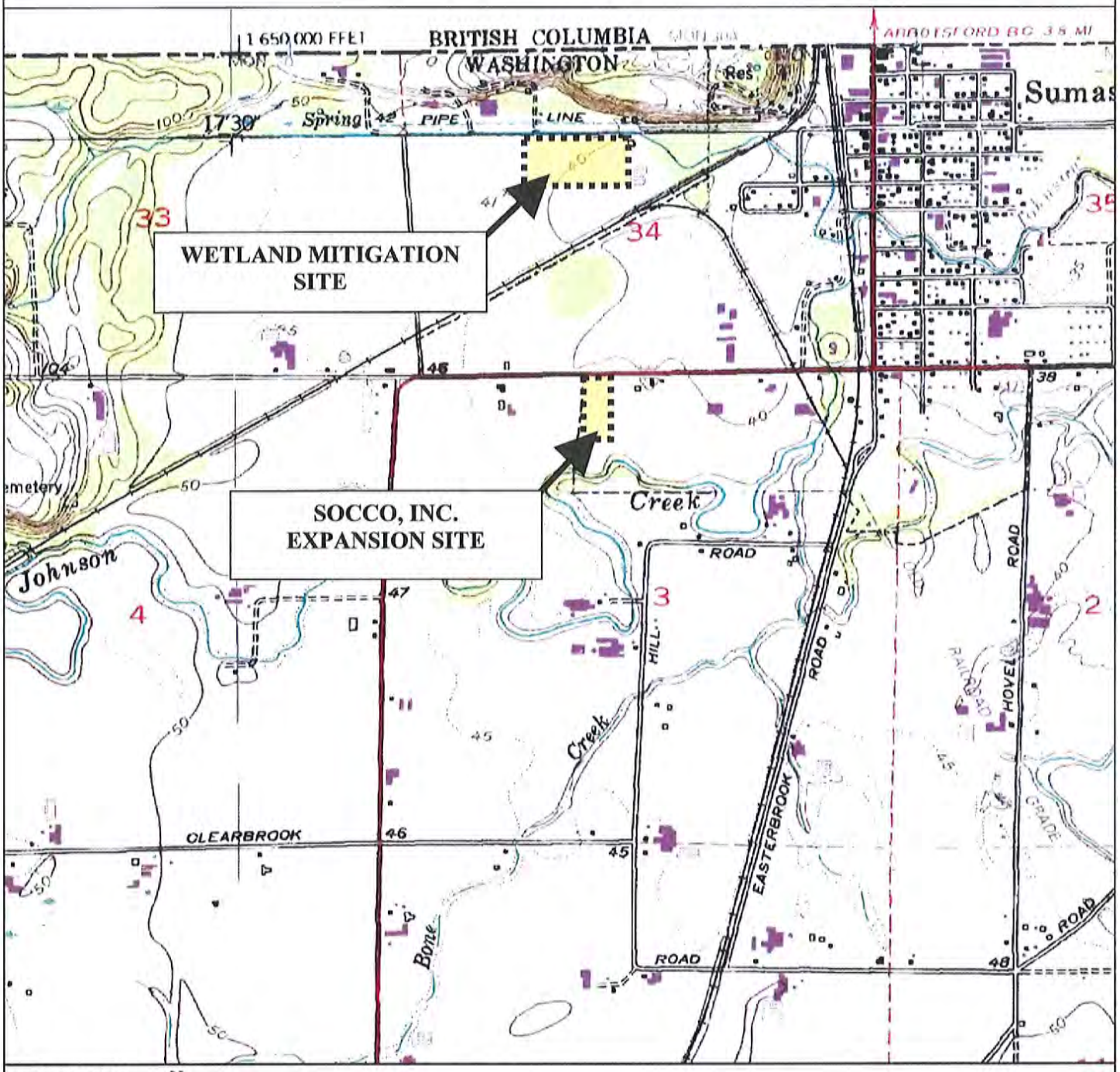


FIGURE 1: VICINITY MAP	**PROPOSED**: WETLAND FILL **PURPOSE**: SOCCO FACILITY WESTERN EXPANSION **USACE REFERENCE**: NWS-2008-290	**DATE:** 5/1/15 **SCALE:** SEE ABOVE	N
DOUGLASS CONSULTING	**APP. BY:** SOCCO, INC. **AT:** SUMAS, WHATCOM CTY, WA, T40N R4E Sec 03 **WATERWAY**: FLOODPLAIN WETLANDS ADJACENT TO ROADSIDE DITCH DRAINING TO JOHNSON CREEK	**JOB NO:** SOCC0003D Sheet 1 of 11	

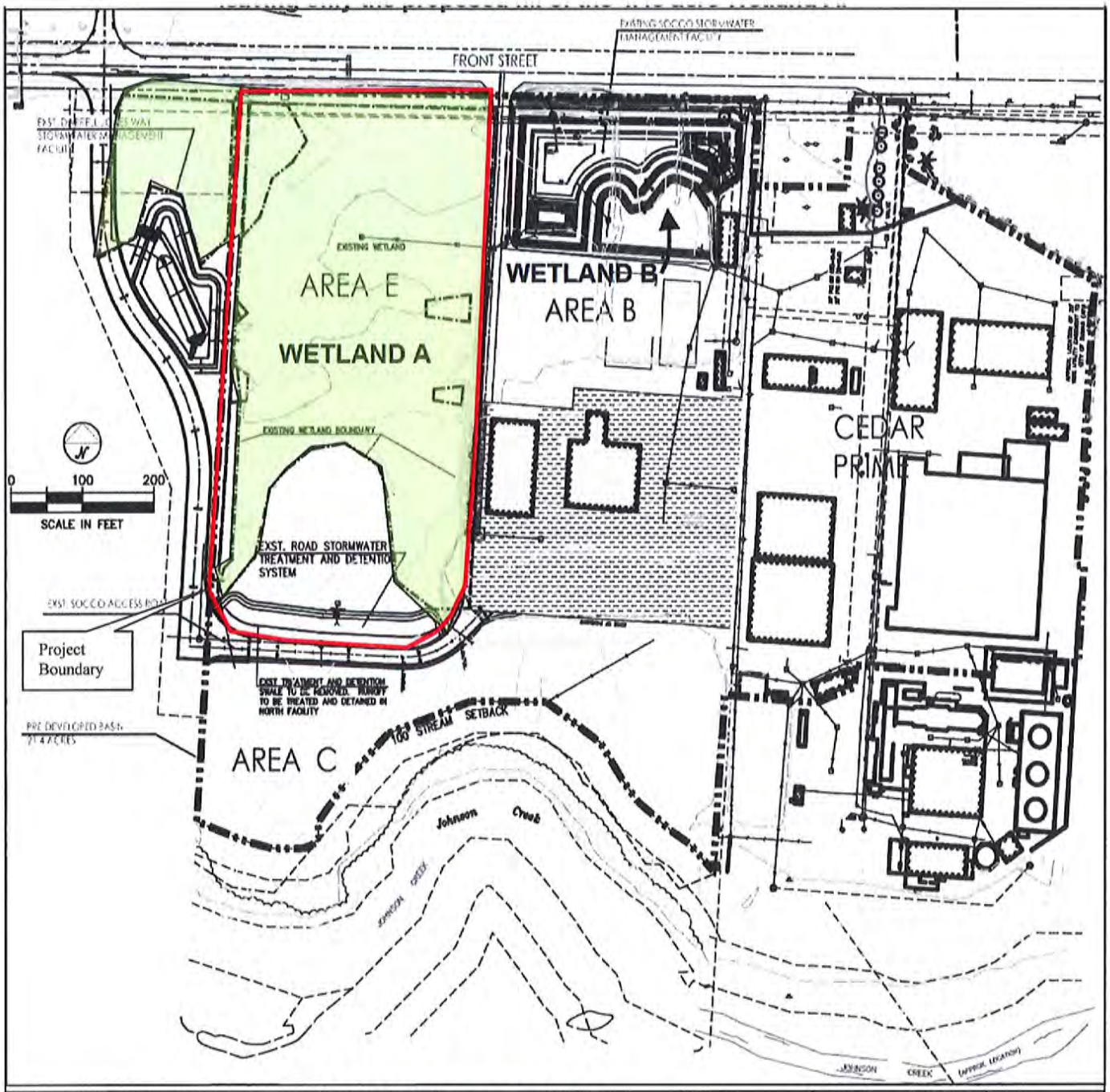


FIGURE 4 **WETLANDS MAP**	**PROPOSED**: WETLAND FILL **PURPOSE**: SOCCO WESTERN EXPANSION **USACE REFERENCE**:NWS-2008-290-	**DATE:** 5/1/15 **SCALE:** 1" = 200'	N
DAVID EVANS AND ASSOCIATES INC DOUGLASS CONSULTING	**APP. BY:** SOCCO, INC **AT:** SUMAS, WHATCOM CTY, WA, T40N R4E Sec 03 **WATERWAY:** FLOODPLAIN WETLANDS ADJACENT TO ROADSIDE DITCH DRAINING TO JOHNSON CREEK	**JOB NO:** SOCC0003D Sheet 2 of 11	

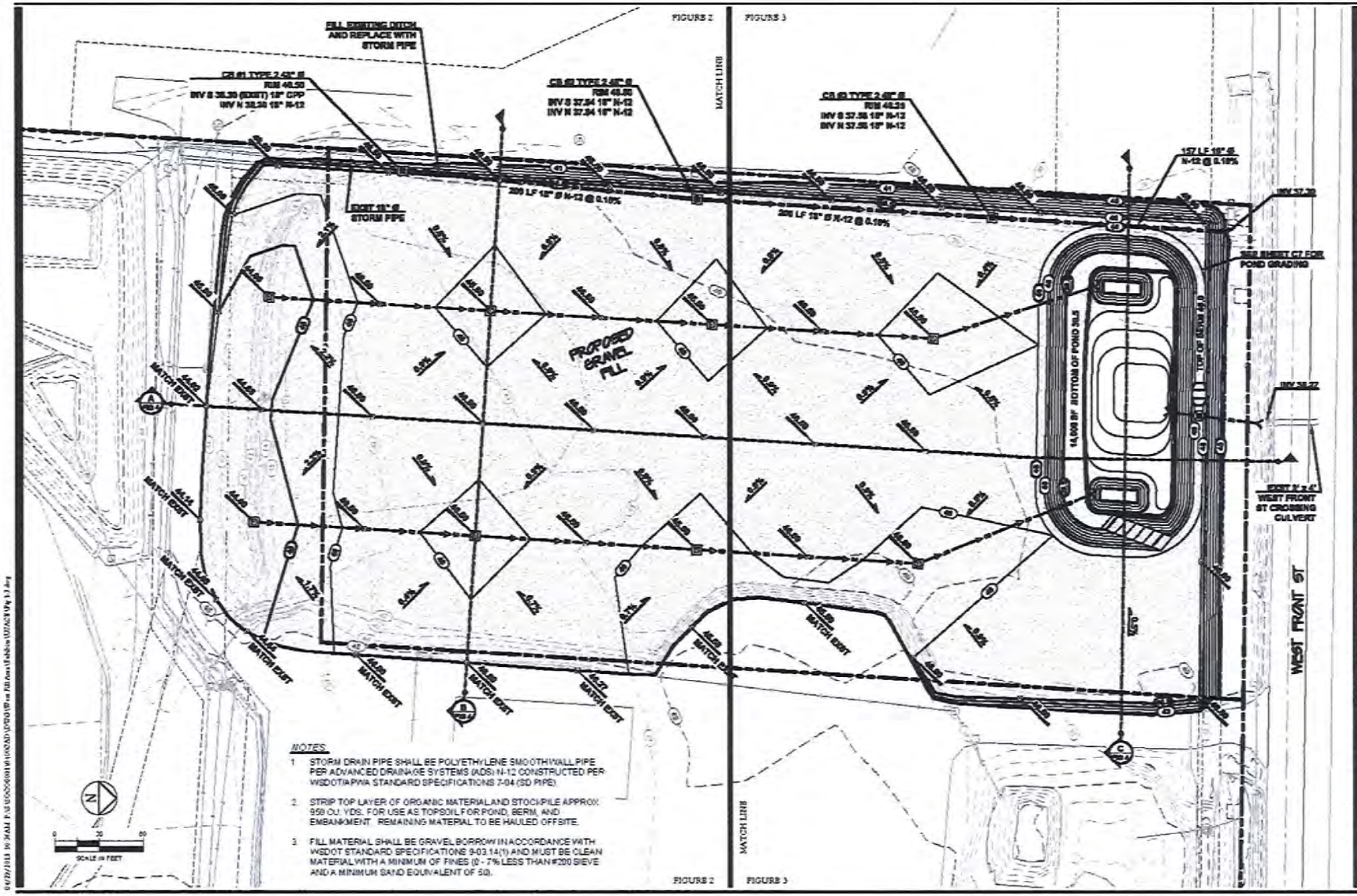


FIGURE 5A **GRADING AND DRAINAGE PLAN**	**PROPOSED**: WETLAND FILL **PURPOSE**: SOCCO FACILITY WESTERN EXPANSION **USACE REFERENCE**: NWS-2008-290-	**DATE:** 5/1/15	
CASCADE ENGINEERING GROUP, P.S., INC.	DOUGLASS CONSULTING	**APP. BY:** SOCCO, INC **AT:** SUMAS, WHATCOM CTY, WA, T40N R4E Sec 03 **WATERWAY**: FLOODPLAIN WETLANDS ADJACENT TO ROADSIDE DITCH DRAINING TO JOHNSON CREEK	**SCALE:** **SEE ABOVE** **JOB NO:** SOCC0003D

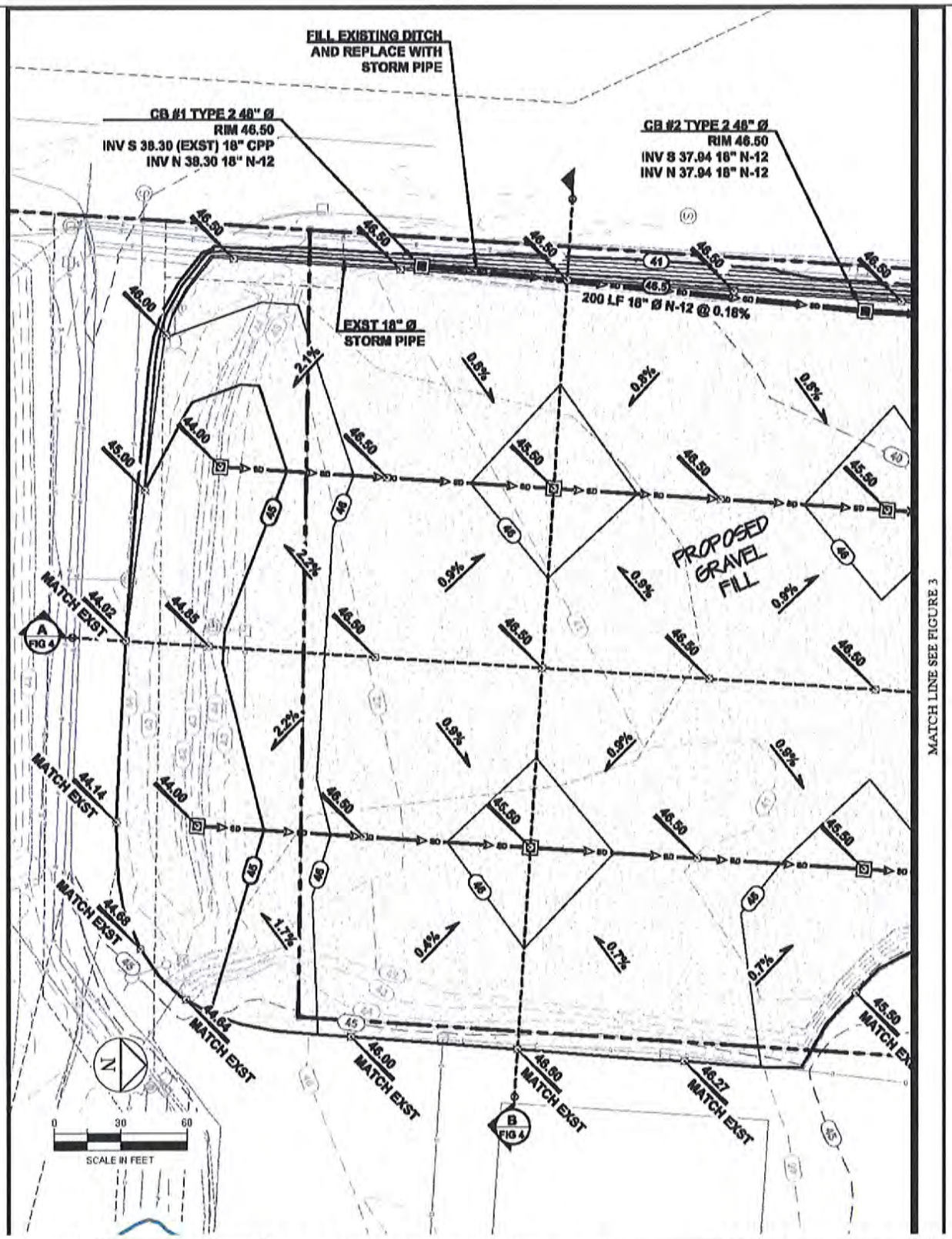


FIGURE 5B **GRADING PLAN SOUTH**	**PROPOSED**: WETLAND FILL **PURPOSE**: SOCCO WESTERN EXPANSION **USACE REFERENCE**:NWS-2008-290·	**DATE:** 5/1/15 **SCALE:** 1" = 200'	N
CASCADE ENGINEERING GROUP, P.S., INC DOUGLASS CONSULTING	**APP. BY:** SOCCO, INC **AT:** SUMAS, WHATCOM CTY, WA, T40N R4E Sec 03 **WATERWAY**: FLOODPLAIN WETLANDS ADJACENT TO ROADSIDE DITCH DRAINING TO JOHNSON CREEK	**JOB NO:** SOCC0003D Sheet 4 of 11	

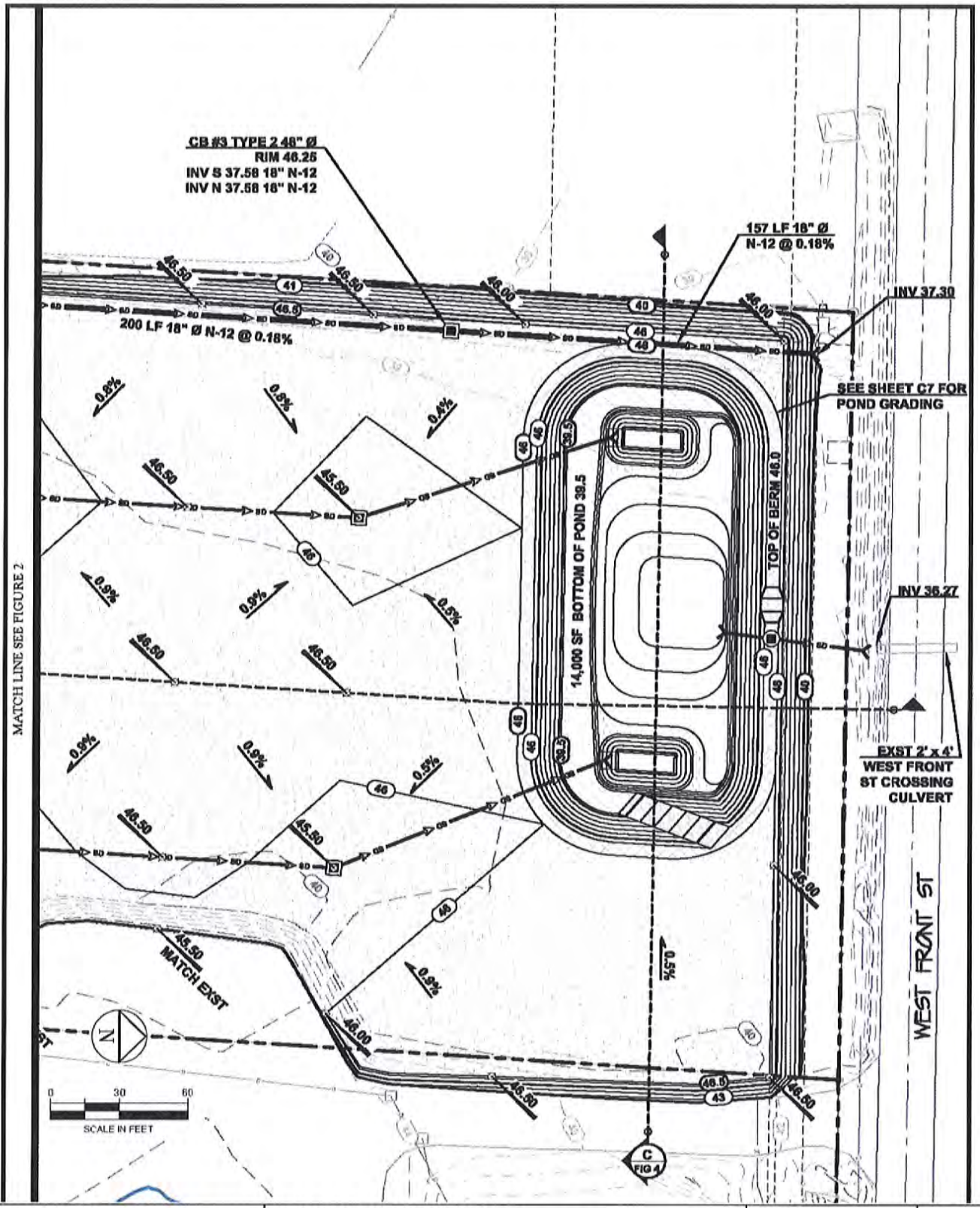


FIGURE 5C **GRADING PLAN NORTH**	**PROPOSED**: WETLAND FILL **PURPOSE**: SOCCO WESTERN EXPANSION **USACE REFERENCE**:NWS-2008-290-	**DATE:** 5/1/15 **SCALE:** SEE ABOVE	N
CASCADE ENGINEERING GROUP, P.S., INC DOUGLASS CONSULTING	**APP. BY:** SOCCO, INC **AT:** SUMAS, WHATCOM CTY, WA, T40N R4E Sec 03 **WATERWAY**: FLOODPLAIN WETLANDS ADJACENT TO ROADSIDE DITCH DRAINING TO JOHNSON CREEK	**JOB NO:** SOCC0003D Sheet 5 of 11	

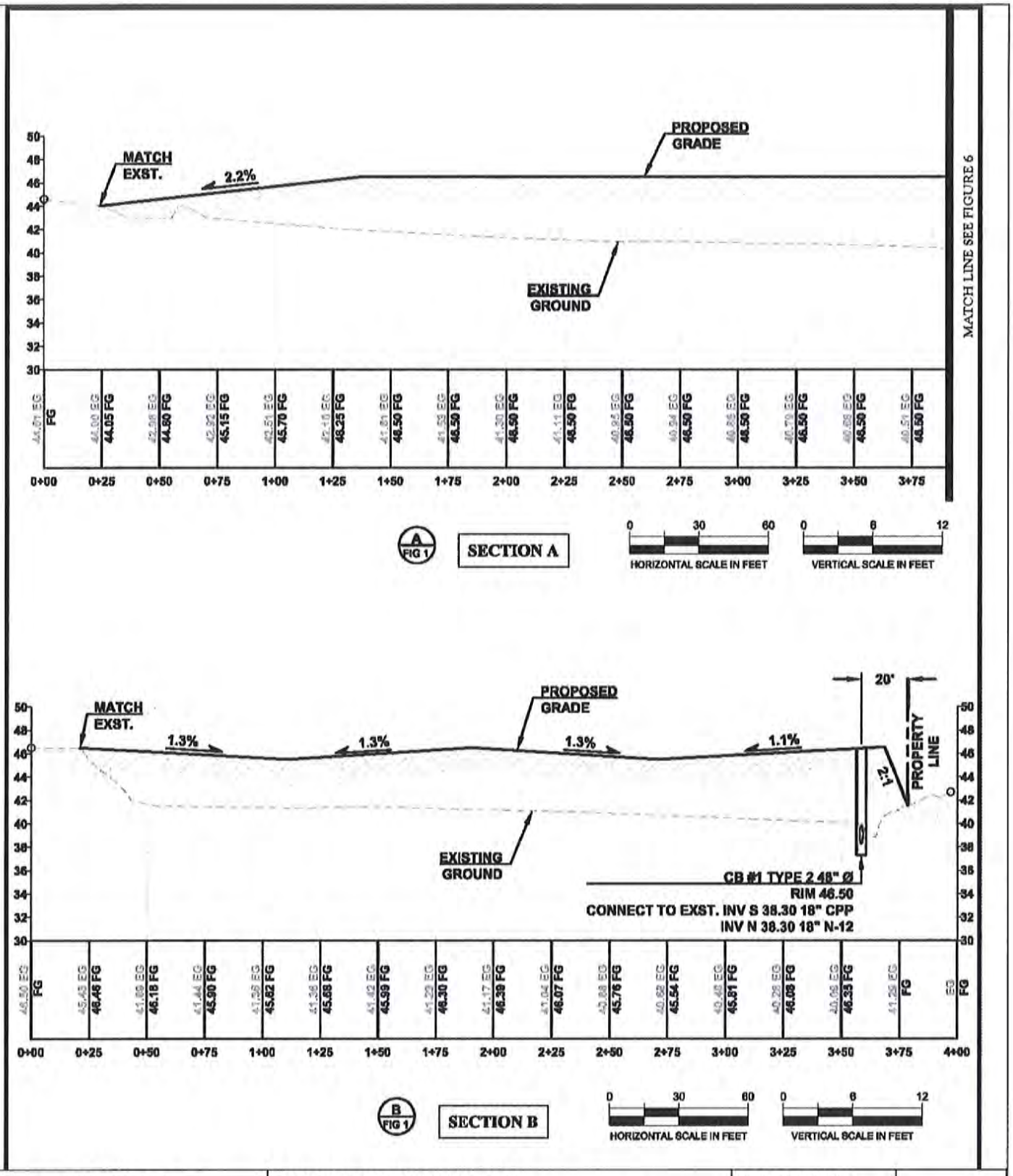
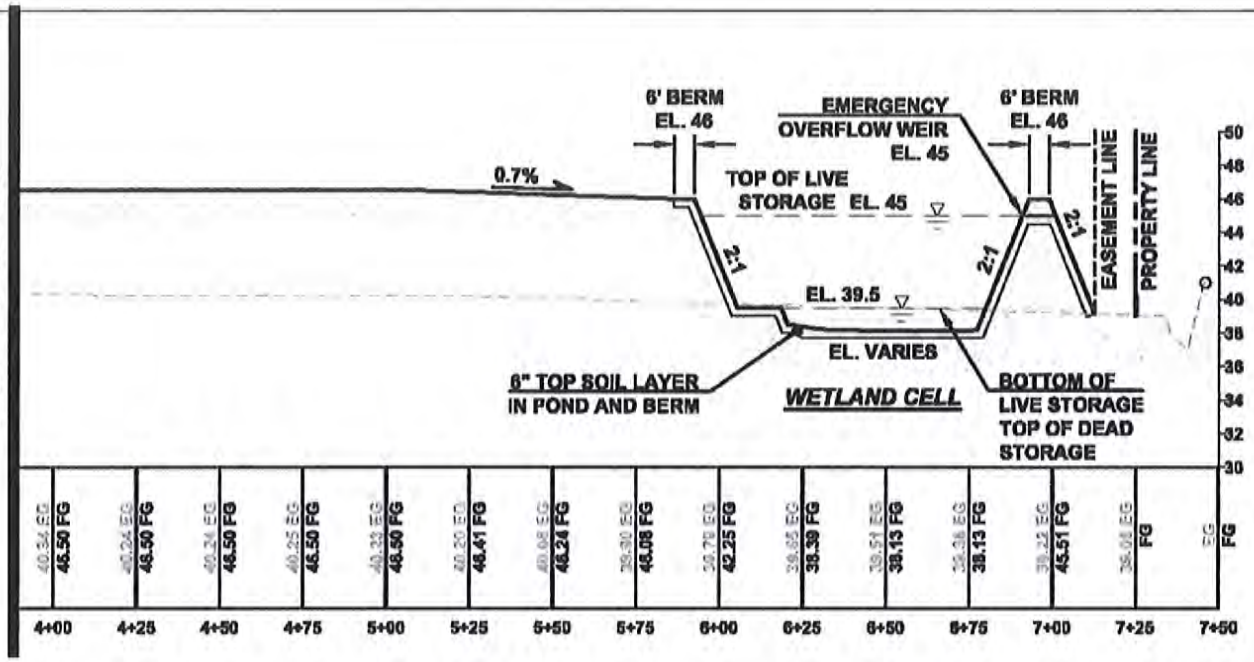
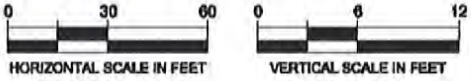
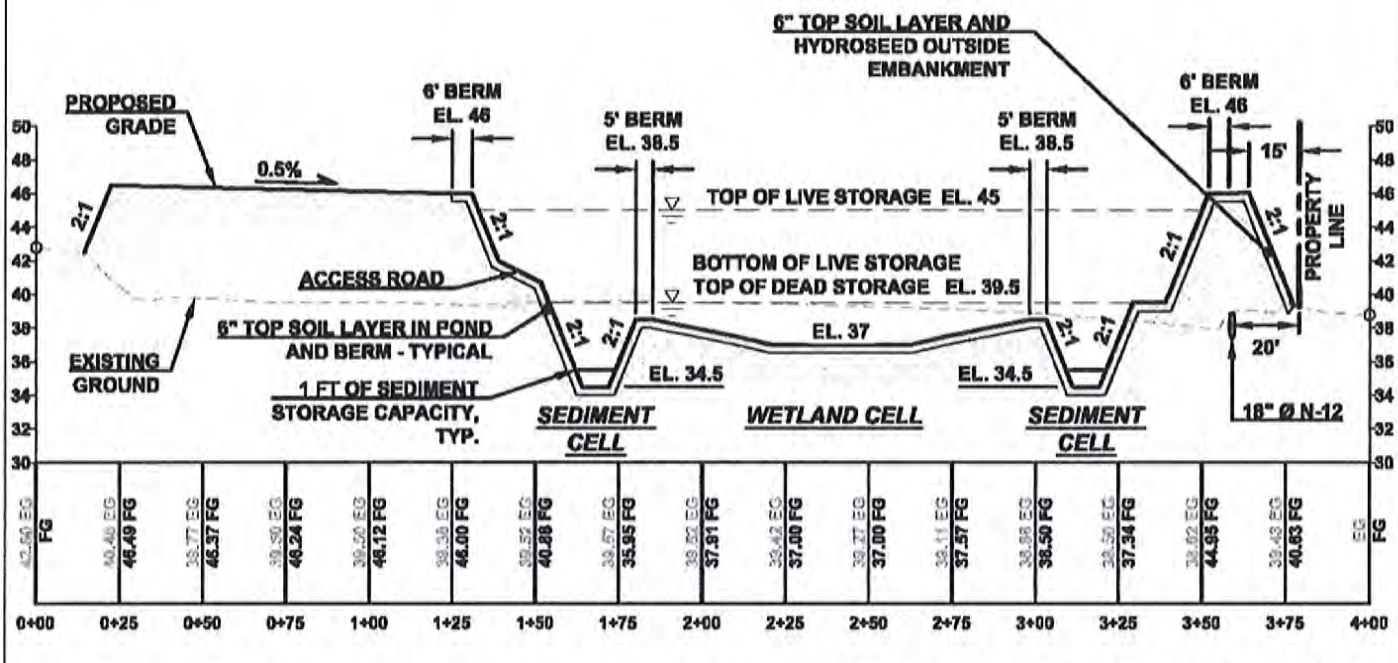


FIGURE 6B **GRADING AND DRAINAGE SECTIONS**	**PROPOSED**: WETLAND FILL **PURPOSE**: SOCCO WESTERN EXPANSION **USACE REFERENCE**:NWS-2008-290-	**DATE:** 5/1/15 **SCALE:** SEE ABOVE
CASCADE ENGINEERING GROUP, P.S., INC DOUGLASS CONSULTING	**APP. BY:** SOCCO, INC **AT:** SUMAS, WHATCOM CTY, WA, T40N R4E Sec 03 **WATERWAY**: FLOODPLAIN WETLANDS ADJACENT TO ROADSIDE DITCH DRAINING TO JOHNSON CREEK	**JOB NO:** SOCC0003D Sheet 6 of 11



A FIG 1 **SECTION A**





C FIG 1 **SECTION C**

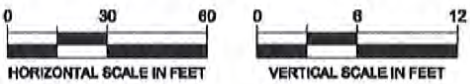


FIGURE 6C **GRADING AND DRAINAGE SECTIONS**	**PROPOSED**: WETLAND FILL **PURPOSE**: SOCCO WESTERN EXPANSION **USACE REFERENCE**:NWS-2008-290-	**DATE:** 5/1/15 **SCALE:** SEE ABOVE
CASCADE ENGINEERING GROUP, P.S., INC DOUGLASS CONSULTING	**APP. BY:** SOCCO, INC **AT:** SUMAS, WHATCOM CTY, WA, T40N R4E Sec 03 **WATERWAY**: FLOODPLAIN WETLANDS ADJACENT TO ROADSIDE DITCH DRAINING TO JOHNSON CREEK	**JOB NO:** SOCC0003D Sheet 7 of 11

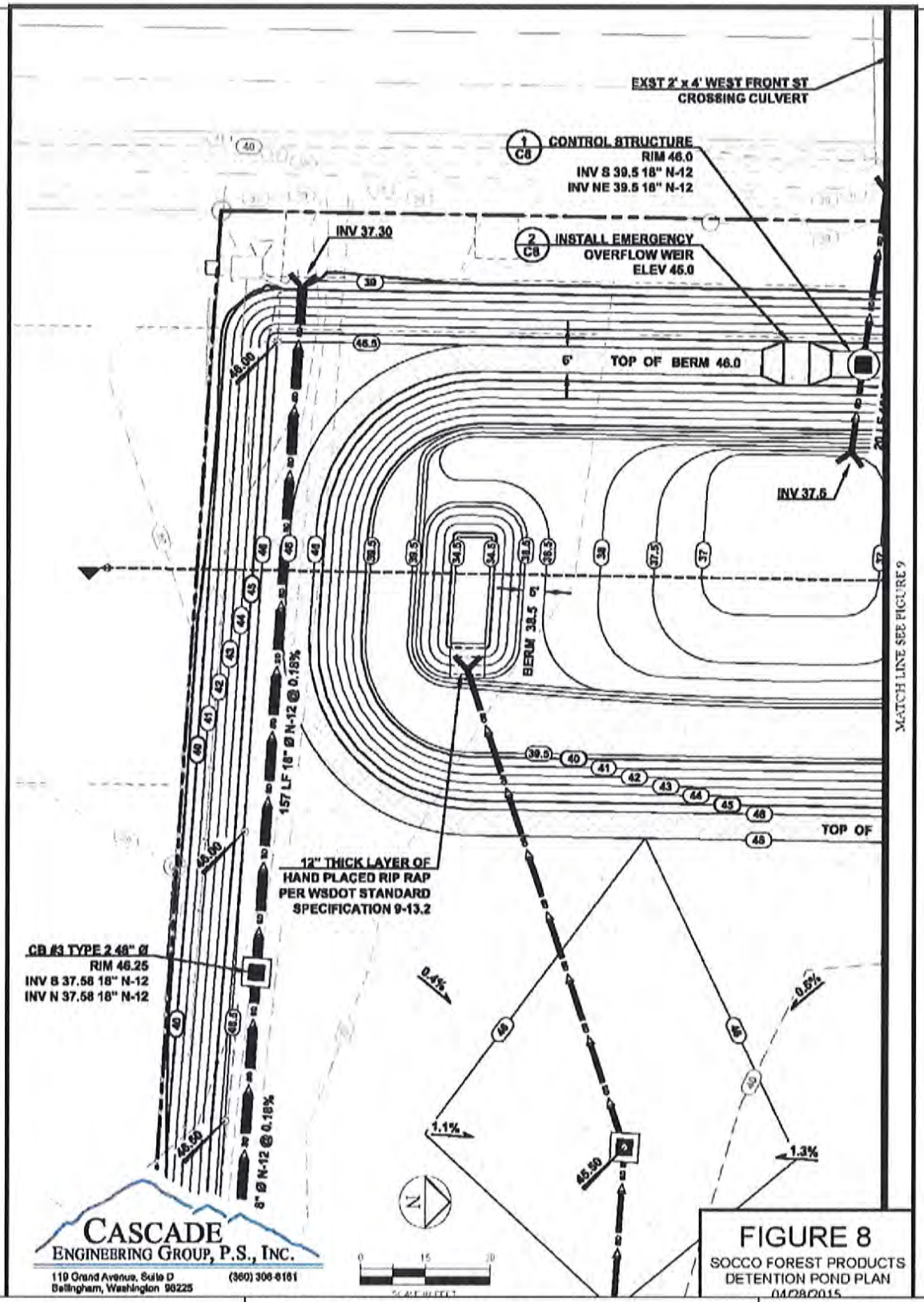


FIGURE 8
SOCCO FOREST PRODUCTS
DETENTION POND PLAN
04/28/2015

FIGURE 7B **DETENTION POND PLAN** **SOUTH**	**PROPOSED**: WETLAND FILL **PURPOSE**: SOCCO WESTERN EXPANSION **USACE REFERENCE**:NWS-2008-290-	**DATE:** 5/1/15	
CASCADE ENGINEERING GROUP, P.S., INC. DOUGLASS CONSULTING	**APP. BY:** SOCCO, INC **AT:** SUMAS, WHATCOM CTY, WA, T40N R4E Sec 03 **WATERWAY**: FLOODPLAIN WETLANDS ADJACENT TO ROADSIDE DITCH DRAINING TO JOHNSON CREEK	**SCALE:** SEE ABOVE **JOB NO:** SOCC0003D Sheet 8 of 11	N

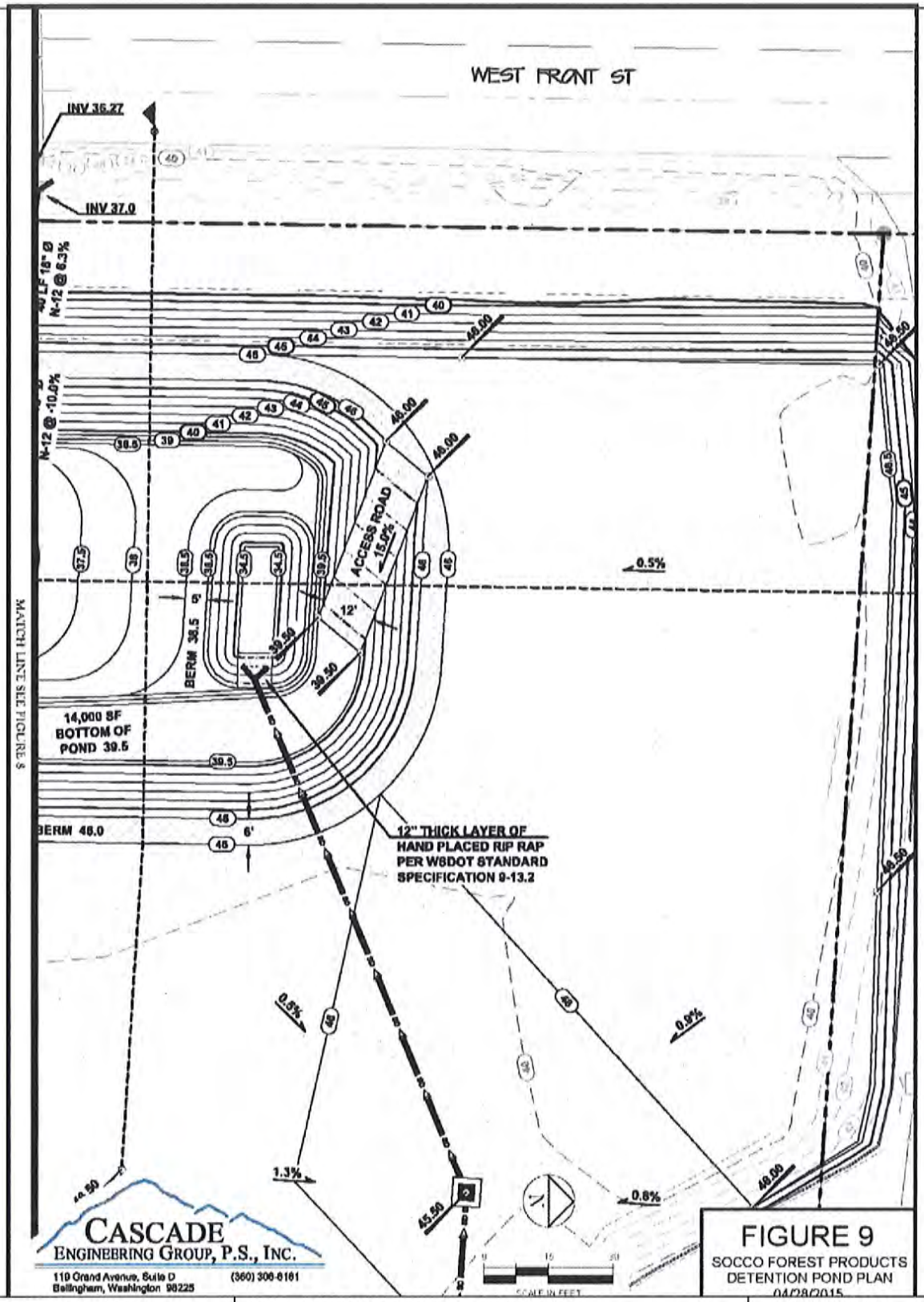
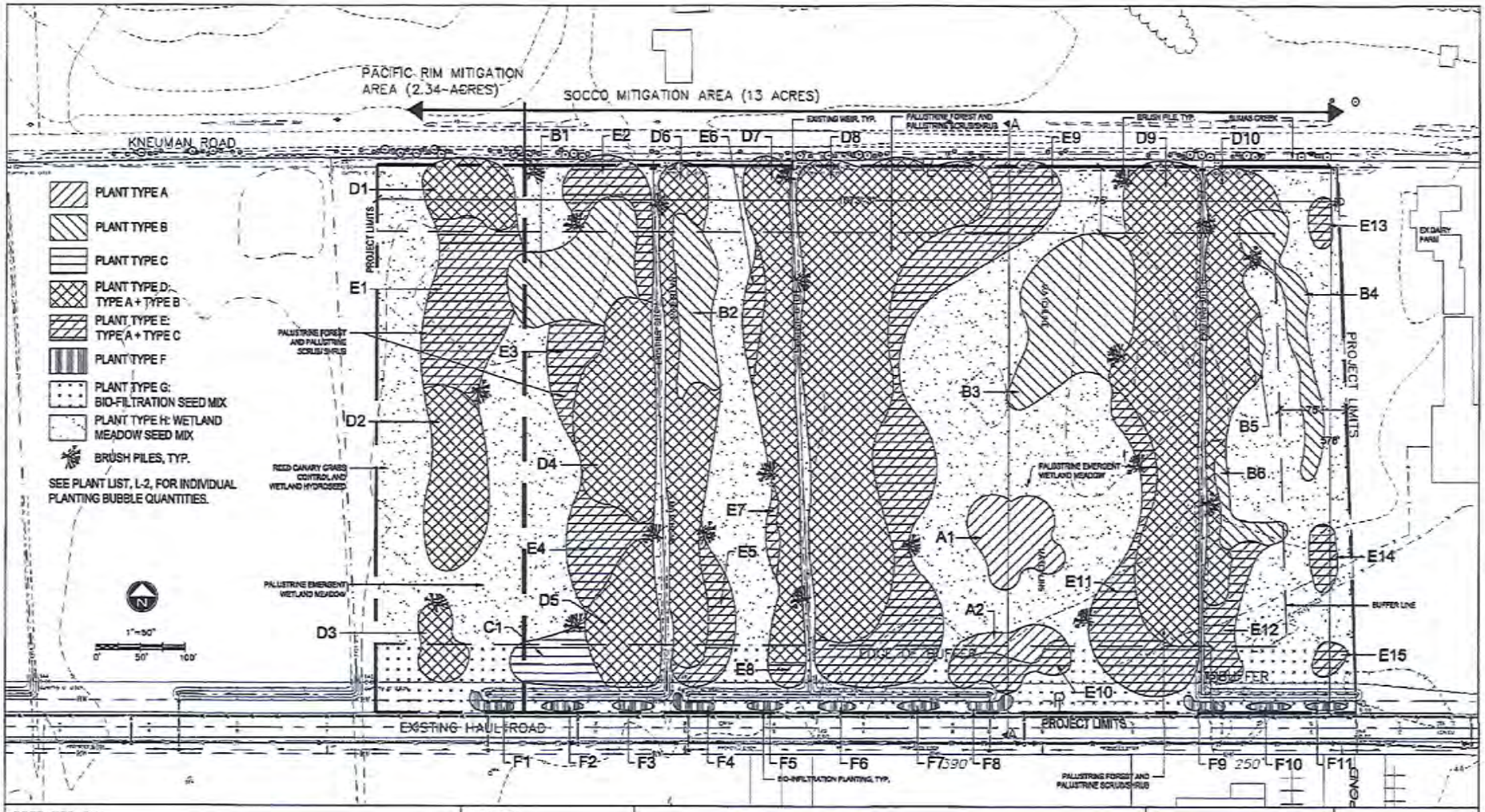


FIGURE 9
SOCCO FOREST PRODUCTS
DETENTION POND PLAN
04/28/2015

FIGURE 7C **DETENTION POND PLAN** **NORTH**	**PROPOSED**: WETLAND FILL **PURPOSE**: SOCCO WESTERN EXPANSION **USACE REFERENCE**:NWS-2008-290-	**DATE:** 5/1/15	
		SCALE: SEE ABOVE	
CASCADE ENGINEERING GROUP, P.S., INC. DOUGLASS CONSULTING	**APP. BY:** SOCCO, INC **AT:** SUMAS, WHATCOM CTY, WA, T40N R4E Sec 03 **WATERWAY**: FLOODPLAIN WETLANDS ADJACENT TO ROADSIDE DITCH DRAINING TO JOHNSON CREEK	**JOB NO:** SOCC0003D Sheet 9 0f 11	N



PREPARED BY:

j.a. brennan associates PLLC Landscape Architecture & Planning

DOUGLASS CONSULTING

FIGURE: 8A

WETLAND MITIGATION PLAN

PROPOSED: WETLAND FILL
PURPOSE: SOCCO FACILITY EXPANSION

REFERENCE:

APP. BY: SUMAS PROPERTIES, LLC
AT: SUMAS, WHATCOM COUNTY, WA, T40N R4E, sEC 03
WATERWAY: FLOODPLAIN WETLANDS ADJACENT TO ROADSIDE DITCH THAT DRAINS TO JOHNSON CREEK.

DATE: 5/1/15

SCALE: 1"=50'

JOB NUMBER: SOCC0003

NWS-2008-290

PACIFIC RIM RELOAD MITIGATION PLANT LIST

6/30/2009

PLANT TYPE A	COMMON NAME	SIZE	CONDITION	SPACING	A1	A2	TOTAL
				SF	8,184	3,009	
ALNUS RUBRA	RED ALDER	1 gal	CONTAINER	12' o.c.	15	6	21
ALNUS SINUATA	SITKA ALDER	1 gal	CONTAINER	12' o.c.	15	6	21
BETULA OCCIDENTALIS	WATER BIRCH	1 gal	CONTAINER	12' o.c.	15	6	21
PICEA SITCHENSIS	SITKA SPRUCE	2 gal	CONTAINER	20' o.c.	2	1	3
THUJA PLICATA	WESTERN RED CEDAR	2 gal	CONTAINER	20' o.c.	2	1	3
TSUGA HETEROPHYLLA	WESTERN HEMLOCK	2 gal	CONTAINER	20' o.c.	2	1	3

Note: Bold text indicates primary species within the plant mix. Italic text indicates secondary species.

PLANT TYPE B	COMMON NAME	SIZE	CONDITION	SPACING	B1	B2	B3	B4	B5	B6	TOTAL
				SF	14,065	7,376	13,337	9,052	917	2,359	
CORNUS STOLONIFERA	RED TWIG DOGWOOD	18"	LIVESTAKE	4'-5' o.c.	135	76	123	77	9	28	448
LONICERA INVOLUCRATA	BLACK TWINBERRY	1 gal	CONTAINER	4'-5' o.c.	71	40	57	41	5	15	229
POPULUS TRICHOCARPA	BLACK COTTONWOOD	18"	LIVESTAKE	4'-5' o.c.	135	76	123	77	9	28	448
SALIX HOOKERIANA	HOOKER'S WILLOW	18"	LIVESTAKE	4'-5' o.c.	135	76	123	77	9	28	448
SALIX LUCIDA SSP. LASIANDRA	PACIFIC WILLOW	18"	LIVESTAKE	4'-5' o.c.	135	76	123	77	9	28	448
SALIX SESSILIFOLIA	SOFT LEAVED WILLOW	18"	LIVESTAKE	4'-5' o.c.	135	76	123	77	9	28	448
SALIX SITCHENSIS	SITKA WILLOW	18"	LIVESTAKE	4'-5' o.c.	135	76	123	77	9	28	448
SPIRAEA DOUGLASII	HARDHACK	2-3'	BRTRANS GRD	4'-5' o.c.	71	40	57	41	5	15	229

Note: Bold text indicates primary species within the plant mix. Italic text indicates secondary species.

PLANT TYPE C	COMMON NAME	SIZE	CONDITION	SPACING	C1
				SF	5,501
PHYSOCARPUS CAPITATUS	PACIFIC NINEBARK	1 gal	CONTAINER	4'-5' o.c.	17
POPULUS TRICHOCARPA	BLACK COTTONWOOD	18"	LIVESTAKE	4'-5' o.c.	80
RIBES BRACTEOSUM	STINK CURRANT	2-3'	BRTRANS GRD	4'-5' o.c.	23
ROSA NUTKANA	NOOTKA ROSE	12"-18"	BRTRANS GRD	4'-5' o.c.	23
RUBUS SPECTABILIS	SALMONBERRY	2-3'	BRTRANS GRD	4'-5' o.c.	23
SALIX LUCIDA SSP. LASIANDRA	PACIFIC WILLOW	18"	LIVESTAKE	4'-5' o.c.	80
SALIX SCOULERIANA	SCOULER'S WILLOW	18"	LIVESTAKE	4'-5' o.c.	80
SAMBUCUS RACEMOSA	RED ELDERBERRY	1 gal	CONTAINER	4'-5' o.c.	17

Note: Bold text indicates primary species within the planting mix. Italic text indicates secondary species. Plain text indicates tertiary species.

PLANT TYPE D (TYPE A + TYPE B)	COMMON NAME	SIZE	CONDITION	SPACING	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	TOTAL
TREES				SF	6,750	12,491	3,710	16,219	10,646	19,778	21,136	58,452	38,802	17,004	
ALNUS RUBRA	RED ALDER	1 gal	CONTAINER	12' o.c.	12	22	8	32	18	35	37	102	67	32	365
ALNUS SINUATA	SITKA ALDER	1 gal	CONTAINER	12' o.c.	12	22	8	32	18	35	37	102	67	32	365
BETULA OCCIDENTALIS	WATER BIRCH	1 gal	CONTAINER	12' o.c.	12	22	8	32	18	35	37	102	67	32	365
PICEA SITCHENSIS	SITKA SPRUCE	2 gal	CONTAINER	20' o.c.	3	4	1	5	3	6	5	14	10	5	56
THUJA PLICATA	WESTERN RED CEDAR	2 gal	CONTAINER	20' o.c.	3	4	1	5	3	6	5	14	10	5	56
TSUGA HETEROPHYLLA	WESTERN HEMLOCK	2 gal	CONTAINER	20' o.c.	3	4	1	5	3	6	5	14	10	5	56
SHRUBS															
CORNUS STOLONIFERA	RED TWIG DOGWOOD	18"	LIVESTAKE	4'-5' o.c.	59	109	32	109	60	173	105	512	200	152	1,511
LONICERA INVOLUCRATA	BLACK TWINBERRY	1 gal	CONTAINER	4'-5' o.c.	31	55	17	54	40	87	55	271	179	84	873
POPULUS TRICHOCARPA	BLACK COTTONWOOD	18"	LIVESTAKE	4'-5' o.c.	59	109	32	109	60	173	105	512	200	152	1,511
SALIX HOOKERIANA	HOOKER'S WILLOW	18"	LIVESTAKE	4'-5' o.c.	59	109	32	109	60	173	105	512	200	152	1,511
SALIX LUCIDA SSP. LASIANDRA	PACIFIC WILLOW	18"	LIVESTAKE	4'-5' o.c.	59	109	32	109	60	173	105	512	200	152	1,511
SALIX SESSILIFOLIA	SOFT LEAVED WILLOW	18"	LIVESTAKE	4'-5' o.c.	59	109	32	109	60	173	105	512	200	152	1,511
SALIX SITCHENSIS	SITKA WILLOW	18"	LIVESTAKE	4'-5' o.c.	59	109	32	109	60	173	105	512	200	152	1,511
SPIRAEA DOUGLASII	HARDHACK	2-3'	BRTRANS GRD	4'-5' o.c.	31	58	17	54	40	87	60	271	179	84	883

PLANT TYPE E (TYPE A + TYPE C)	COMMON NAME	SIZE	CONDITION	SPACING	E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	E11	E12	E13	E14	E15	TOTAL
TREES				SF:	16,244	6,357	4,170	6,360	4,911	2,200	1,063	1,096	34,736	4,214	13,205	5,019	1,344	2,042	1,142	
ALNUS RUBRA	RED ALDER	1 gal	CONTAINER	12' o.c.	28	12	9	12	9	4	2	2	58	8	23	9	3	4	2	185
ALNUS SINUATA	SITKA ALDER	1 gal	CONTAINER	12' o.c.	28	12	9	12	9	4	2	2	58	8	23	9	3	4	2	185
BETULA OCCIDENTALIS	WATER BIRCH	1 gal	CONTAINER	12' o.c.	28	12	9	12	9	4	2	2	58	8	23	9	3	4	2	185
PICEA SITCHENSIS	SITKA SPRUCE	2 gal	CONTAINER	20' o.c.	5	2	1	2	1	1	0	0	10	1	4	1	0	1	0	31
THUJA PLICATA	WESTERN RED CEDAR	2 gal	CONTAINER	20' o.c.	5	2	1	2	1	1	0	0	10	1	4	1	0	1	0	31
TSUGA HETEROPHYLLA	WESTERN HEMLOCK	2 gal	CONTAINER	20' o.c.	5	2	1	2	1	1	0	0	10	1	4	1	0	1	0	31
SHRUBS																				
PHYSOCARPUS CAPITATUS	PACIFIC NINEBARK	1 gal	CONTAINER	4'-5' o.c.	53	21	15	22	15	7	4	3	108	14	42	16	4	7	4	332
POPULUS TRICHOCARPA	BLACK COTTONWOOD	18"	LIVESTAKE	4'-5' o.c.	234	97	70	100	71	34	15	14	502	60	192	72	19	29	16	1,526
RIBES BRACTEOSUM	STINK CURRANT	2-3'	BRTRANS GRD	4'-5' o.c.	67	28	20	29	20	10	5	4	144	17	55	21	6	9	5	439
ROSA NUTKANA	NOOTKA ROSE	12"-18"	BRTRANS GRD	4'-5' o.c.	67	28	20	29	20	10	5	4	144	17	55	21	6	9	5	439
RUBUS SPECTABILIS	SALMONBERRY	2-3'	BRTRANS GRD	4'-5' o.c.	67	28	20	29	20	10	5	4	144	17	55	21	6	9	5	439
SALIX LUCIDA SSP. LASIANDRA	PACIFIC WILLOW	18"	LIVESTAKE	4'-5' o.c.	234	97	70	100	71	34	15	14	502	60	192	72	19	29	16	1,526
SALIX SCOULERIANA	SCOULER'S WILLOW	18"	LIVESTAKE	4'-5' o.c.	234	97	70	100	71	34	15	14	502	60	192	72	19	29	16	1,526
SAMBUCUS RACEMOSA	RED ELDERBERRY	1 gal	CONTAINER	4'-5' o.c.	53	21	15	22	15	7	4	3	108	14	42	16	4	7	4	332

PLANT TYPE F (BIO-FILTRATION AREAS)	COMMON NAME	SIZE	CONDITION	SPACING	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	TOTAL
				SF	540	421	405	320	333	358	482	558	418	312	225	
ACER CIRCINATUM	VINE MAPLE	1 gal	CONTAINER	4' o.c.	4	2	3	4	2	3	3	4	3	3	2	34
CORNUS STOLONIFERA	RED TWIG DOGWOOD	18"	LIVESTAKE	4' o.c.	10	7	7	8	8	8	7	8	8	8	7	80
OEMLERIA CERASIFORMIS	INDIAN PLUM	2'-3'	BRTRANS GRD	4' o.c.	4	3	3	4	2	3	3	4	3	3	2	34
PRUNUS EMARGINATA	BITTER CHERRY	1 gal.	BRTRANS GRD	12' o.c.	10	7	7	8	8	8	7	8	8	8	7	80
ROSA PISOCARPA	CLUSTERED WILD	2'-3'	BRTRANS GRD	4' o.c.	10	7	7	8	8	8	7	8	8	8	7	80
SALIX SITCHENSIS	SITKA WILLOW	18"	LIVESTAKE	4' o.c.	4	3	3	4	2	3	3	4	3	3	2	34

Note: Bold text indicates primary species within the planting mix. Italic text indicates secondary species.

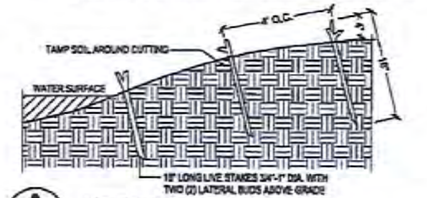
BIOFILTRATION SEED MIX		45,682 SF
ELYMUS GLAUCUS	BLUE WILDRYE	60%
FESTUCA RUBRA	RED FESCUE	30%
BROMUS CARINATUS	CALIFORNIA BROME	10%

Note: Seed shall be applied at a rate of 87.1 pounds per acre. No noxious weeds will be permitted. The seed mixture shall be no less than 98% pure, and shall have a minimum germination rate of 90%. All areas in project limits to be seeded, except 3' diameter mulch circles at each 1 Gal. and 2 Gal. plant.

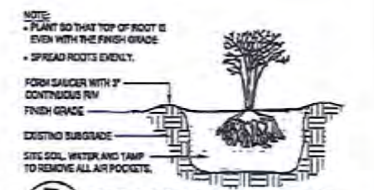
WETLAND MEADOW SEED MIX		76,490 SF
CAREX OBNUPTA	SLOUGH SEDGE	15%
JUNCUS ENSIFOLIUS	DAGGER LEAF RUSH	25%
FESTUCA RUBRA var. ROEMERI	ROEMER'S RED FESCUE	5%
SCIRPUS MICROCARPUS	SMALL-FRUITED	10%
GLYCERIA OCCIDENTALIS	WESTERN	15%
AGROSTIS EXERATA	SPIKE BENTGRASS	15%
HORDEUM BRACHYANTHERUM	MEADOW BARLEY	15%

Note: Seed shall be applied at a rate of 18.55 pounds per acre. No noxious weeds will be permitted. The seed mixture shall be no less than 98% pure, and shall have a minimum germination rate of 90%. All areas in project limits to be seeded, except 3' diameter mulch circles at each 1 Gal. and 2 Gal. plant.

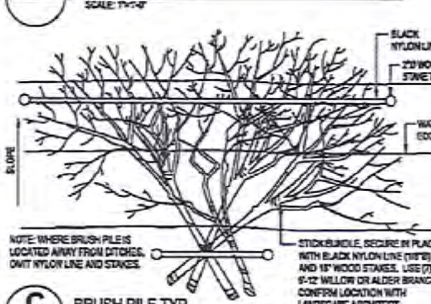
NOTES:
1) PLANT INDIVIDUAL TREE AND SHRUB SPECIES IN GROUPS OF 5-15 PLANTS WITHIN EACH PLANTING AREA, (WHERE TOTAL QUANTITIES ALLOW).
2) SPACE TREES 12' O.C. OR 20' O.C. (AS SHOWN) FROM OTHER TREES, SPACE SHRUBS 4'-5' O.C. FROM ADJACENT TREES AND SHRUBS. ALL SPACING IS TRIANGULAR.
3) PLANT SPACING IS APPROXIMATE. ADJUST SPACING AS NEEDED. PROVIDE THE NUMBERS OF PLANTS IN EACH AREA AS PER ABOVE PLANT LIST.
4) SEE GENERAL NOTES FOR ADDITIONAL CONSTRUCTION INFORMATION AND REQUIREMENTS.



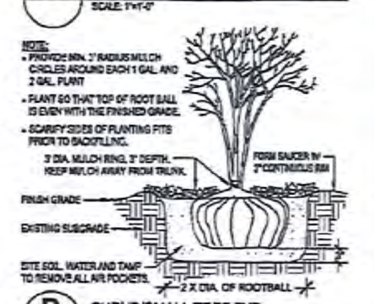
A LIVE STAKE TYP.
SCALE: 1"=1'-0"



B BARE ROOT SHRUB PLANTING TYP.
SCALE: 1"=1'-0"



C BRUSH PILE TYP.
SCALE: 1"=1'-0"



D SHRUB/SMALL TREE TYP.
SCALE: 1"=1'-0"

PREPARED BY:

j.a. brennan associates PLLC Landscape Architects & Planners

DOUGLASS CONSULTING

FIGURE: 8B

WETLAND MITIGATION PLANT LIST AND PLANTING DETAILS

PROPOSED: WETLAND FILL
PURPOSE: SOCCO FACILITY EXPANSION

REFERENCE:

APP. BY: SUMAS PROPERTIES, LLC
AT: SUMAS, WHATCOM COUNTY, WA, T40N R4E, sEC 03
WATERWAY: FLOODPLAIN WETLANDS ADJACENT TO ROADSIDE DITCH THAT DRAINS TO JOHNSON CREEK.

DATE: 5/1/15

SCALE: NOT TO SCALE

JOB NUMBER: SOCC0003

NWS-2008-290