



**Planning & Development Services Fact Sheet**  
Community Development Division

PL# 12-0191  
Date Received

- |  |  |
|--|--|
| <input type="checkbox"/> Binding Site Plan   | <input type="checkbox"/> Rezone                                      |
| <input type="checkbox"/> Bldg Permits Triggering SEPA  | <input checked="" type="checkbox"/> Shoreline Substantial Use Permit |
| <input type="checkbox"/> Fill & Grade Triggering SEPA  | <input type="checkbox"/> Short CaRD                                  |
| <input type="checkbox"/> Forest Practice Waiver – HE   | <input type="checkbox"/> Short Plat                                  |
| <input type="checkbox"/> Level II, III and IV Applications                                     | <input type="checkbox"/> Special Use Permit Level II                 |
| <input type="checkbox"/> Long CaRD <input type="checkbox"/> Pre <input type="checkbox"/> Final | <input type="checkbox"/> Variance Level II                           |
| <input type="checkbox"/> Plat or SPU Modification  | <input type="checkbox"/> Other : _____                               |

SKAGIT COUNTY  
PERMIT OFFICE  
JUN 14 2012  
RECEIVED

1. Applicant name: Skagit County Dike, Drainage and Irrigation District No. 12
2. Proposed project description: Levee Maintenance
3. Related Permits or Approvals: Fill and Grade
4. Parcel ID#: P38223 Assessor Tax #: P38305 P38304 P38302 P38307  
Parcel ID#: P38303 Assessor Tax #: P38220 P38308
5. Section 33 Township 35 N Range 4 E Comprehensive Plan/Zoning Designation: Ag-NRL
6. Site Address: N/A
7. Lot of Record:  Yes  No PL# N/A
8. Urban Growth Area:  Yes  No If yes, City: \_\_\_\_\_
9. Comp Plan/Zoning within 200 feet: Ag-NRL
10. Mineral Resource Overlay within ¼ mile  Yes  No
11. Critical Area/Water within 200 feet:  Yes  No
- 12 Acreage/Lot Dimensions: N/A
13. Flood Zone: A7 FIRM Map Panel # 0250 C and 0235 C Map Date: 1/03/1985
14. Road access:  Private  County – Permit # \_\_\_\_\_  State – Permit # \_\_\_\_\_
15. Water Source:  Drilled well - Permit # N/A  Community Well  Public \_\_\_\_\_
16. Sewage Disposal:  Septic – Permit # N/A  Public Sewer: \_\_\_\_\_
17. Legal Description: \_\_\_\_\_

(Attach additional sheet if necessary.)

Ex 2



**Planning & Development Services**  
Community Development Division

**Applicant**

Dan Lefeber, Manager

Name

1317 S Anacortes Street, Burlington, WA 98233

Address

360-757-3484

360-757-1214

dkdist12@cnw.com

Phone

Fax

e-mail address

Signature:

**Owner**

Skagit County Dike, Drainage and Irrigation District No. 12

Name

1317 S Anacortes Street, Burlington, WA 98233

Address

Phone

Fax

e-mail address

**Contact**

John B Semrau, PE & PLS

Name

2118 Riverside Drive, Suite 208, Mount Vernon, WA 98273

Address

360-424-9566

360-424-6222

john@semrau.com

Phone

Fax

e-mail address

**Contractor (When applicable. If owner, write owner-builder)**

Name

Address

Phone

Fax

e-mail address

Contractors License #

Expiration Date

OWNERSHIP CERTIFICATION

I, LORNA ELLESTAD, hereby certify that I am the major property owner or officer of the corporation owning property described in the attached application, and I have familiarized myself with the rules and regulations of Skagit County with respect to filing this application for a SHORELINE SUBSTANTIAL DEVELOPMENT PERMIT, FLOODPLAIN/DRA and that the statements, answers and information submitted present the argument on behalf of this application and are, in all respects, true and correct to the best of my knowledge and belief.

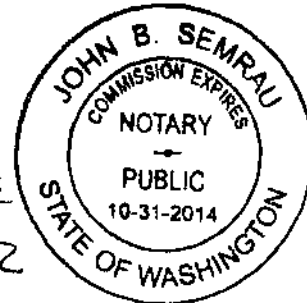
Street Address: 1317 S ANACORTES STREET,

City, State, Zip: BURLINGTON, WA 98233

Phone: (360) 757-3484

Signature(s): *Lorna Ellestad*  
DISTRICT COMMISSIONER

for: SKAGIT COUNTY DIKE DRAINAGE  
(corporation or company name, if applicable)  
AND IRRIGATION DISTRICT NO. 12



ACKNOWLEDGMENT  
STATE OF WASHINGTON

COUNTY OF SKAGIT

On this day personally appeared before me LORNA ELLESTAD to me known to be the individual(s) described in and who executed the within and foregoing instrument, and acknowledged that they signed the same as their free and voluntary act and deed for the uses and purposes therein mentioned.

GIVEN under my hand and official seal this 5 day of JULY, 2012

*John B. Semrau*  
Notary Public in and for the State of Washington  
Residing at MOUNT VERNON  
My Commission Expires 10-31-2014

Shoreline Substantial Development Permit  
Skagit County Dike, Drainage and Irrigation District No. 12  
Skagit County, WA

This application is for a Shoreline Substantial Development Permit pursuant to WAC 173-27-040. This project involves work on the top and landward side of the levee. This project will be within shorelines of state-wide significance (RCW 90.58.030). Portions of this project will be within the Skagit River shoreline within a Rural Residential designation. The master program provision applicable to this development is the Skagit County Shoreline Management Master Program, SCC 14.26.

This project and application is submitted by Skagit County Dike, Drainage and Irrigation District No. 12. This Application for Permit is made for maintenance, elevation maintenance, repair, post-flood repair, backsloping, critical facility protection, installation of keyways, sheet pile walls, restoration, and to improve the existing Levee within Dike District 12 to conform to the plan, standards and specifications of the "City of Burlington and Dike District No. 12 Levee Certification Project." The Project is also known as the "Existing Northeastern Levee" or "Northeastern Area Project" and is the construction phase of the first Project Action identified within the "FINAL ENVIRONMENTAL IMPACT STATEMENT TO ADOPT A STRATEGIC PROGRAM FOR COMPREHENSIVE FLOOD HAZARD MITIGATION IN THE BURLINGTON URBAN AREA AND ADJACENT LAND WITH A RANGE OF STRUCTURAL AND NON-STRUCTURAL COMPONENTS," issued July 16, 2010 (EIS).

*The purpose of this program is to reduce flood risk in the urban area while minimizing adverse impacts upstream and downstream of the levee system.*

*Strategic Goals Include:*

- *Protect the existing urban built environment without further expansion into the floodplain.*
- *Reduce flood risk and improve safety for the 100-year flood event.*
- *Implement flood measures which minimize risk to adjacent communities, in addition to Burlington's urban area, to the maximum practicable extent.*
- *Ensure additional protection to the community by participating in the larger, regional planning effort for flood hazard mitigation.*

The levee system has existed for more than 100 years, and clearly existed prior to June 1, 1971 and WAC 173-27-040. This part of the Dike District No. 12 levee system was established in 1895.

Skagit River hydrology used for the design of this Project has been performed independently by the Corps of Engineers, Pacific International Engineering, and Northwest Hydraulic Consultants. A synopsis for the differences in their work can be found in the EIS. The measures considered in the final work by Northwest Hydraulic Consultants were defined in a series of meetings of the Skagit River Flood Risk Management General Investigation Study (Skagit GI) Project Delivery Team (PDT), and defined in discussions with several of the project stakeholders.

Shoreline Substantial Development Permit  
Skagit County Dike, Drainage and Irrigation District No. 12  
Skagit County, WA

The investigation and analysis for the Project design is included in "Final Report, Geotechnical Investigation and Levee Analysis, City of Burlington and Dike District 12 Levee Certification Project, Burlington, Washington," prepared by Golder Associates Inc, November 20, 2009.

Demonstration of Endangered Species Act (ESA) and National Environmental Policy Act (NEPA) compliance has been addressed for this project in the EIS.

*In September, 2008, the northwest Region of the National Marine Fisheries Service published a final Biological Opinion, pursuant to a judicial order, regarding the effects of elements of National Flood Insurance Program throughout the Puget Sound region. A series of Reasonable and Prudent Alternatives (RPAs) were included in the Biological Opinion.*

*Subsequently, FEMA has developed a model ordinance to provide guidance to local jurisdictions such as Burlington and Dike District 12 in implementing RPAs. The FEMA model ordinance proposed to meet RPA's has a definition of Protected Area that includes the Floodway, the Riparian Habitat Zone and the Channel Migration Zone/Area. The area in which the levees are located is classified as a Protected Area. Because no work will be undertaken on the waterward side of the levees, No Effect to listed species will occur to the Protected Area with the proposed action.*

*The "Floodway" (or "Flood-like Tool", Exhibit 6, pages 9 and 17) in Burlington and adjacent to the City, in accordance with the 1984 flood insurance study, is specifically limited to the area between the levees and extending landward from the toe a distance of 300 feet in the City and 500 feet in the County...*

*With the existing riverfront currently protected by a levee system, no changes are proposed to the Essential Fish Habitat, the Riparian Area, or the Floodway. There are two existing forested riparian habitat zones in locations where the existing levees are set back from the riverfront, a total of 1.29 miles out of a total of 4.6 miles of levee, or 28%. The remainder of the levees that are along the river frontage consist of mowed levee vegetation that is required to be maintained under Corps of Engineers levee vegetation maintenance standards, in order to maintain eligibility for emergency repairs under PL 84-99. Dike District 12 relies on this program to maintain its levees' structural integrity and to qualify for Corps of Engineers assistance during and after flood events.*

*Burlington and Dike District 12's proposal to achieve levee certification and subsequent FEMA accreditation without any changes on the river side of the existing levees is therefore expected to gain a "No Effect" on listed species or habitat.....*

This Project relates strictly to the enlarging of both width and height of the existing levee in place for the 1.53 mile portion within Skagit County. Project extends from the Burlington City limits at Gardner Road north to the terminus south of the BNSF Railroad on Lafayette Road. Construction will occur on top of and landward of the existing levee. This Project is undertaken

Shoreline Substantial Development Permit  
Skagit County Dike, Drainage and Irrigation District No. 12  
Skagit County, WA

for the protection of life and property in the City of Burlington and Skagit County, and for maintenance of flood control facilities relating to the Skagit River.

The Levee Certification process has established a new design template for this portion of the levee system. The portion of the Project within the City Limits of Burlington is from Station 79+00 at Whitmarsh Road to Station 159+00 at Gardner Road as shown on Sheets 2 through 9 of the 24 sheet plan set prepared by Reichhardt & Ebe Engineering, Inc, March 3, 2011 (R&E). This portion of the Project has been submitted for a Shoreline Master Development permit through the City of Burlington.

The portion of the Project included in the plan between Stations 159+00 to 240+00 as shown on Sheets 9 through 17 is located in the County and is the portion of the Project seeking coverage under a Shoreline Master Development Permit through Skagit County.

There are three active Fill and Grade Permits in place that permit maintenance fill up to the level of the existing levee top from Stations 159+00 to 232+00.

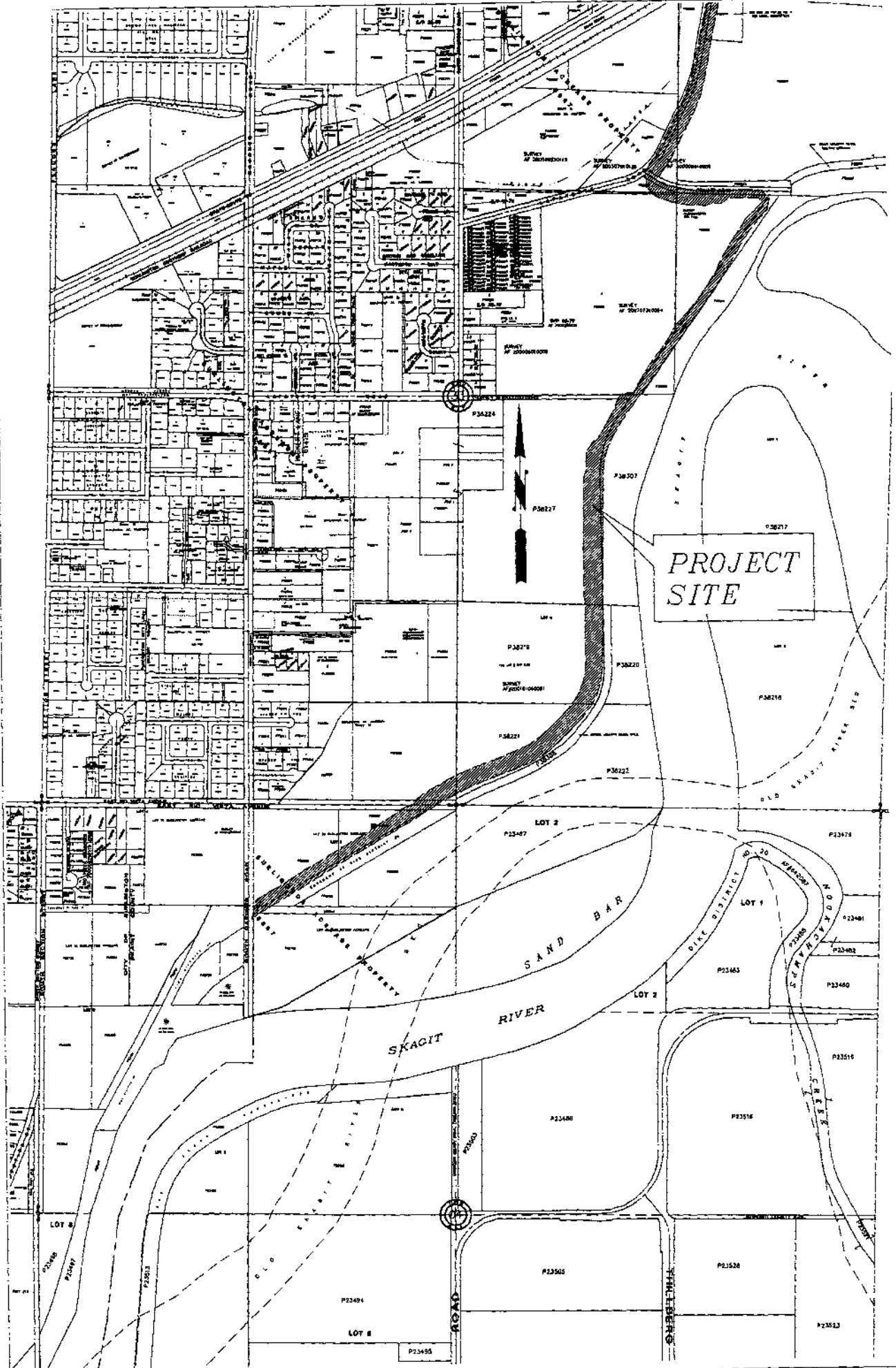
Fill and Grade Permit BP 07-0267 was submitted on March 15, 2007 and issued for construction on May 15, 2010. BP 07-0267 represents work on the R&E plan from Station 159+00 to 204+00. This permit expires on May 14, 2013.

Fill and Grade Permit BP 03-0564\BP 06-0817 with Shoreline Exemption PL 03-0487 was submitted on May 16, 2003, reissued on July 27, 2009 and expires on 7/26/2012. This work is almost complete and will be done before the expiration of this permit. This permit represents work on the R&E plan from Station 204+00 to Station 228+00.

Fill and Grade Permit BP 07-1051 was submitted on August 24, 2007, issued on November 5, 2010, and will expire November 14, 2013. This permit represents work from Station 228+00 to 232+00.

The County portion of the Project requires import of fill totaling 178,425 cubic yards. Of this quantity, 86,000 cubic yards have already been permitted leaving 92,425 cubic yards to be permitted to raise the levee top. SEPA requirements for this fill quantity have been included and covered by the Final EIS.

Boundary Line Adjustments for additional right-of-way and associated annexation to the City limits will need to occur between approximate stations 150+00 to 158+00.



SEMRAU ENGINEERING & SURVEYING  
 SURVEYING • ENGINEERING • PLANNING  
 MOUNT VERNON, WA 98273 360-424-9586

VICINITY MAP

DATE: 5/25/12  
 DRAWING: 4450VC.DWG  
 JOB NO. 4450

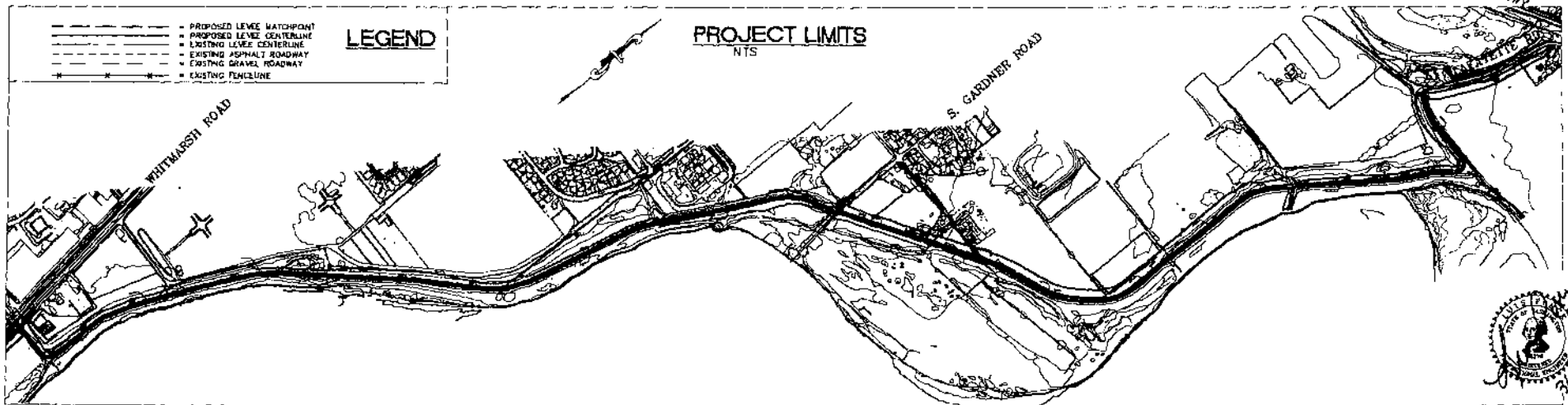
# DIKE 12 LEVEE CERTIFICATION

## PHASE 1: NORTHWEST TERMINUS TO BNSF CROSS LEVEE

### CITY OF BURLINGTON

#### SHEET INDEX

COV.) COVER SHEET	5.) DIKE 12 PLAN & PROFILE STA 110+00 TO 119+50	10.) DIKE 12 PLAN & PROFILE STA 163+00 TO 173+00	15.) DIKE 12 PLAN & PROFILE STA 210+00 TO 220+50	22.) S. GARDNER DEMO PLAN
KEY.) KEY MAP	6.) DIKE 12 PLAN & PROFILE STA 119+50 TO 130+00	11.) DIKE 12 PLAN & PROFILE STA 173+00 TO 182+50	16.) DIKE 12 PLAN & PROFILE STA 220+50 TO 230+00	23.) S. GARDNER PLAN & PROFILE
1.) DIKE 12 PLAN & PROFILE STA 79+00-89+00	7.) DIKE 12 PLAN & PROFILE STA 130+00 TO 140+50	12.) DIKE 12 PLAN & PROFILE STA 182+50 TO 192+00	17.) DIKE 12 PLAN & PROFILE STA 230+00 TO 240+00	24.) S. GARDNER CROSS SECTIONS
2.) DIKE 12 PLAN & PROFILE STA 89+00-98+00	8.) DIKE 12 PLAN & PROFILE STA 140+50 TO 152+00	13.) DIKE 12 PLAN & PROFILE STA 192+00 TO 200+00	18.) SHOP WALL PLAN & PROFILE	
3.) DIKE 12 PLAN & PROFILE STA 98+00-107+00	9.) DIKE 12 PLAN & PROFILE STA 152+00 TO 163+00	14.) DIKE 12 PLAN & PROFILE STA 200+00 TO 210+00	19.) SHOP WALL TYPICAL SECTIONS	
4.) DIKE 12 PLAN & PROFILE STA 107+00 TO 110+000			20.) SHOP WALL DETAILS	
			21.) WWTP OUTFALL STRUCTURE DETAILS	

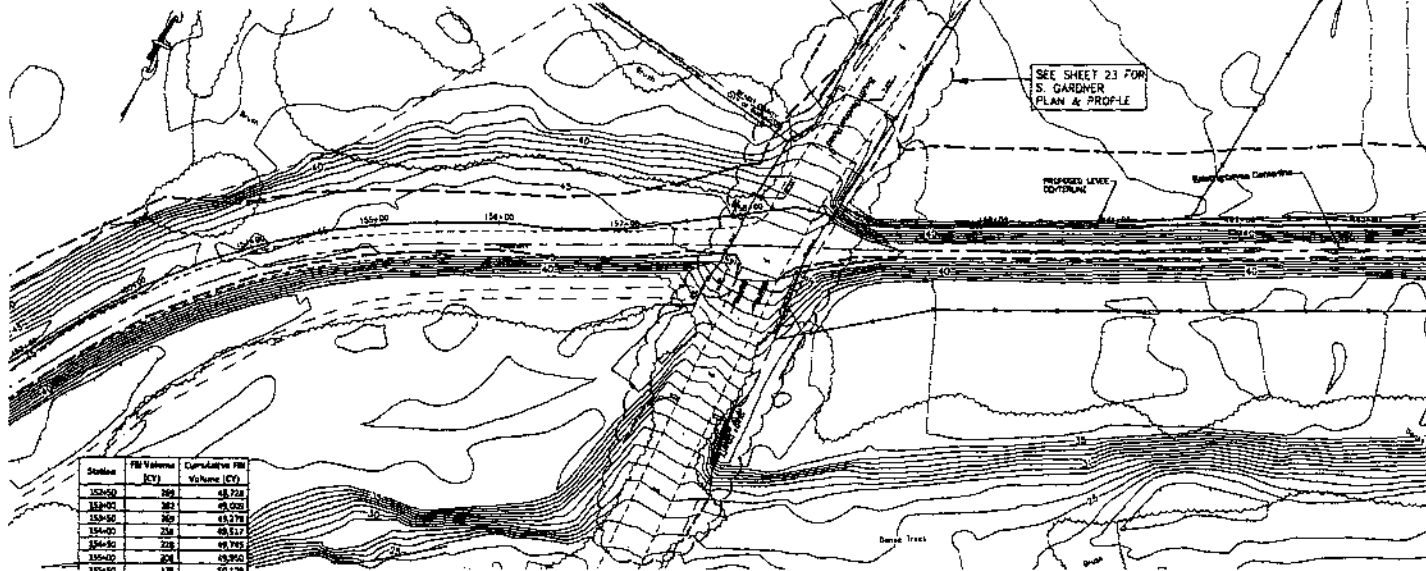


DESIGNED BY LP DRAWN BY LM CHECKED BY LD	<b>REICHARDT &amp; EBE</b> ENGINEERS, INC. CONSULTING ENGINEERS PC Box 978 433 Front St., Ste 201 Lynden, WA 98949 82284 Ph (360) 354-5687 Fax (360) 351-0407	NO. _____ DATE _____ REVISION _____ BY _____	CITY OF BURLINGTON	<b>DIKE 12 LEVEE CERTIFICATION</b> PROPOSED LEVEE ALIGNMENT COVER SHEET	JOB / SHEET 0903 / 3-3-11 SCALE H N/A V A DATE 3-3-11 SHEET COV
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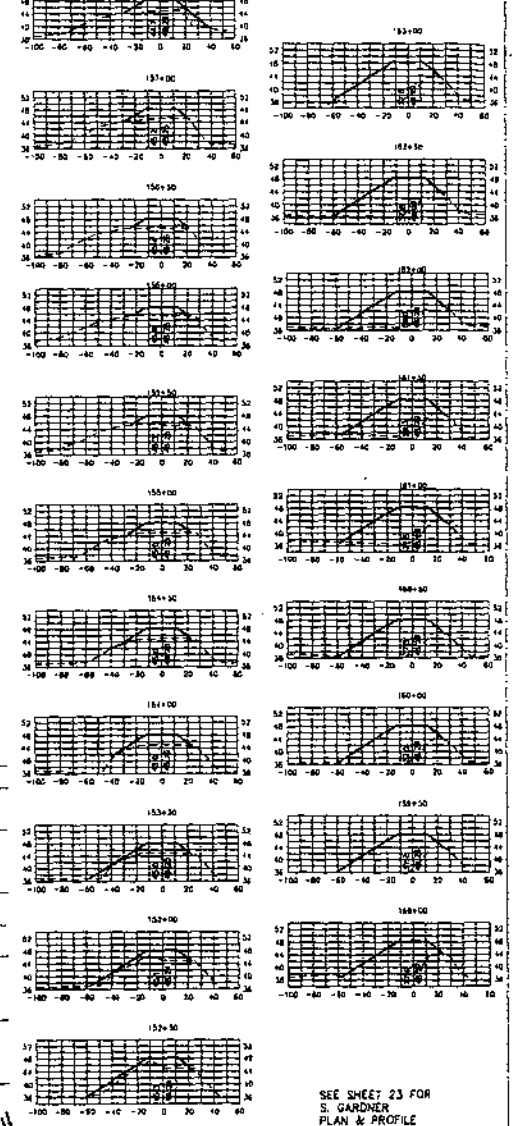
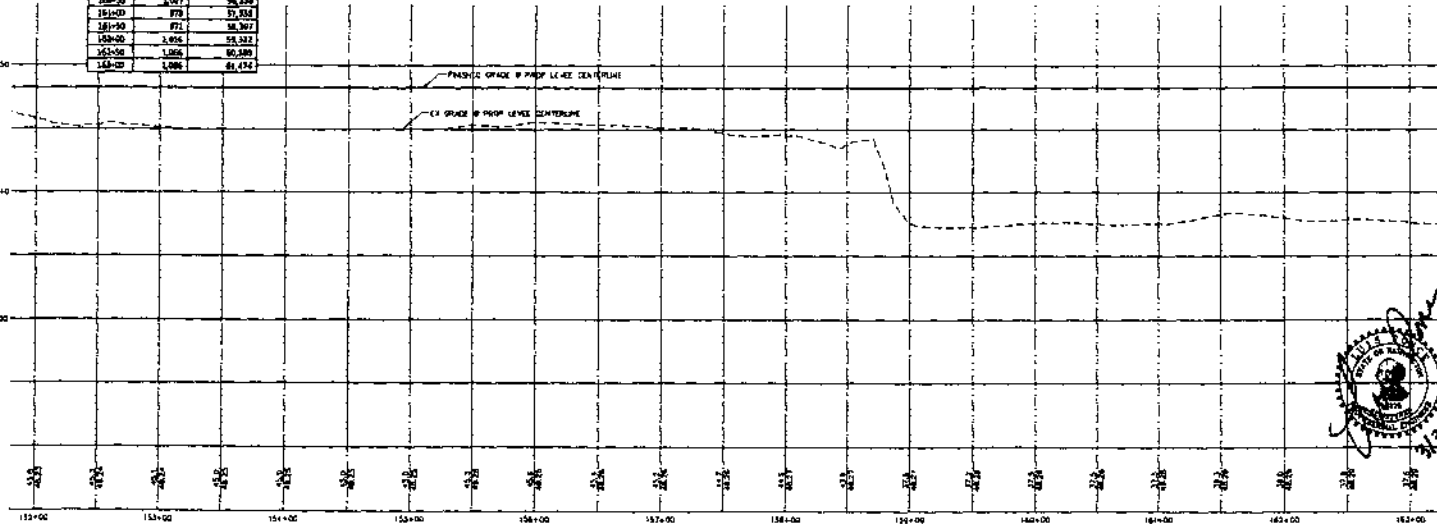
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Station	Fill Volume (CY)	Cumulative Fill Volume (CY)
152+00	289	48,228
152+10	282	48,510
152+20	269	48,779
152+30	258	49,037
152+40	228	49,265
152+50	228	49,493
152+60	231	49,724
152+70	178	49,902
152+80	162	50,064
152+90	208	50,272
153+00	302	50,574
153+10	302	50,876
153+20	341	51,217
153+30	728	51,945
153+40	1,070	53,015
153+50	2,088	55,103
153+60	3,024	58,127
153+70	4,077	62,204
153+80	4,711	66,915
153+90	4,924	71,839
154+00	4,826	76,665
154+10	4,886	81,551

**LEGEND**

- PROPOSED LEVEL MATCHPOINT
- PROPOSED LEVEL CENTERLINE
- EXISTING LEVEL CENTERLINE
- EXISTING ASPHALT ROADWAY
- EXISTING GRAVEL ROADWAY
- EXISTING FENCELINE

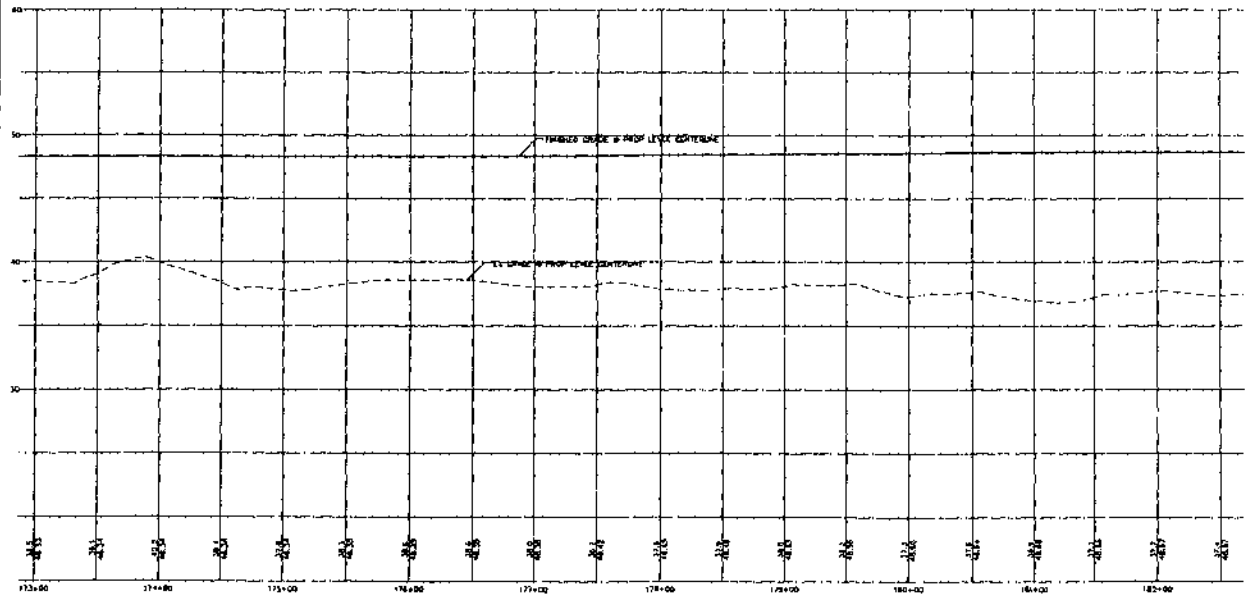
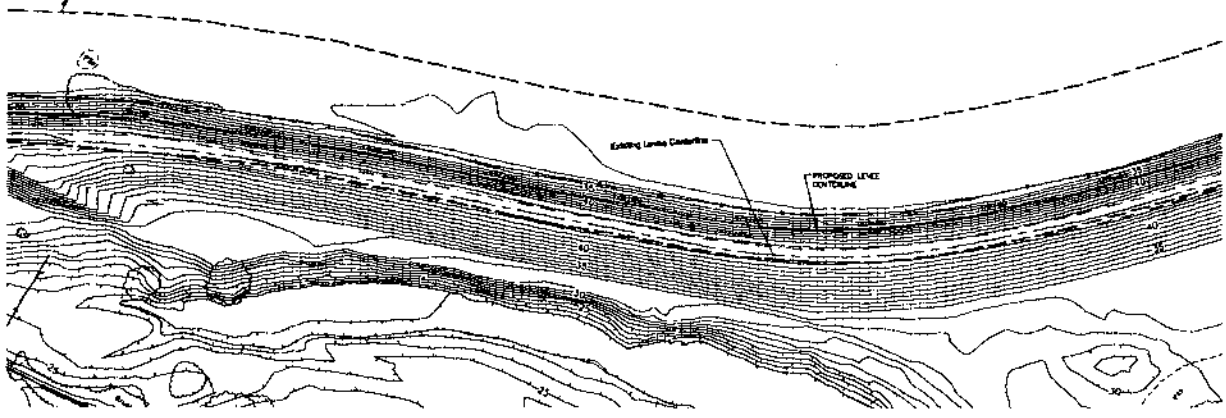


SEE SHEET 23 FOR S. GARDNER PLAN & PROFILE FOR STA 158+00 & 158+50

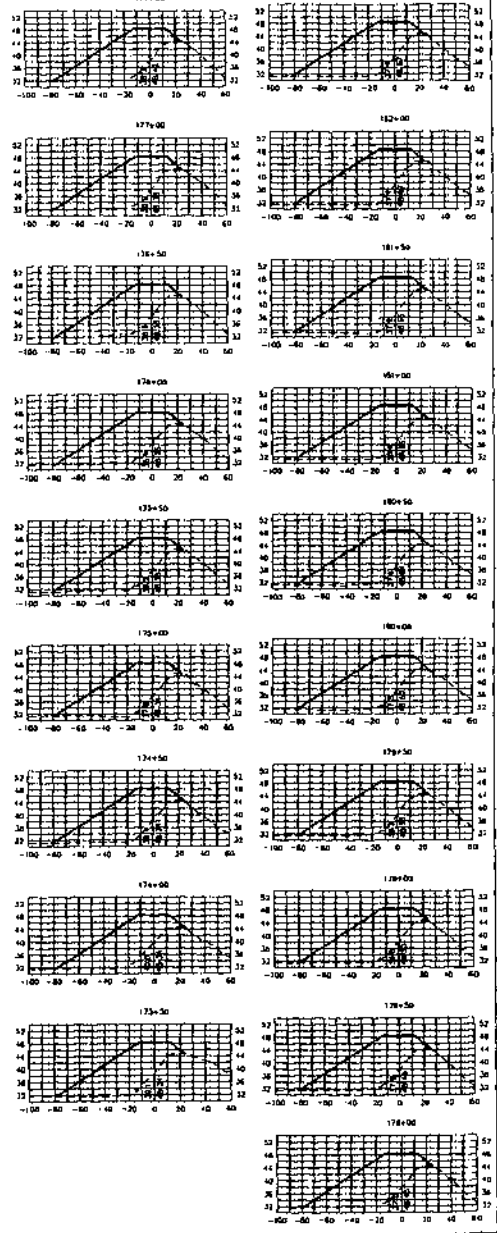
DESIGNED BY LP DRAWN BY LNC CHECKED BY LP	<b>REICHHARDT &amp; EBE</b> ENGINEERING, INC. CONSULTING ENGINEERS P.O. Box 878 533 Front St., Ste 201 PH (860) 334-3683 Lyndon, Vermont 05854 Fax (860) 334-0187	CITY OF BURLINGTON	<b>DIKE 12 LEVEE CERTIFICATION</b> PROPOSED LEVEE ALIGNMENT STA 152+00 TO 163+00	JOB / DWG 09031 SCALE H 1" = 50' V 1" = 5' DATE 3-3-11 SHEET 9
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	PROPOSED LEVEE MATCHPOINT
	PROPOSED LEVEE CENTERLINE
	EXISTING LEVEE CENTERLINE
	EXISTING ASPHALT ROADWAY
	EXISTING GRAVEL ROADWAY
	EXISTING FENCELINE

**LEGEND**

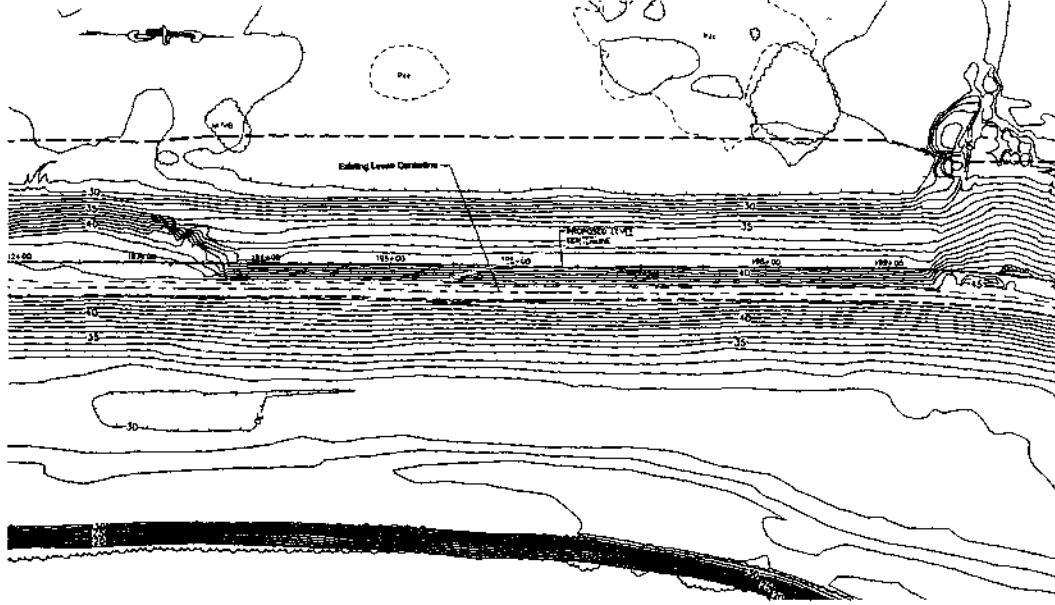


Station	Fill Volume (CY)	Computed to Fill Volume (CY)
177+00	2,403	86,969
178+00	2,402	86,171
179+00	2,572	89,276
180+00	2,566	93,318
181+00	2,531	93,427
182+00	2,402	94,287
183+00	2,402	95,759
184+00	2,400	97,221
185+00	2,531	98,787
186+00	2,572	100,254
187+00	2,501	101,549
188+00	2,402	102,551
189+00	2,529	103,387
190+00	2,604	104,045
191+00	2,584	104,524
192+00	2,708	104,744
193+00	2,509	104,799
194+00	2,571	104,628
195+00	2,571	104,281



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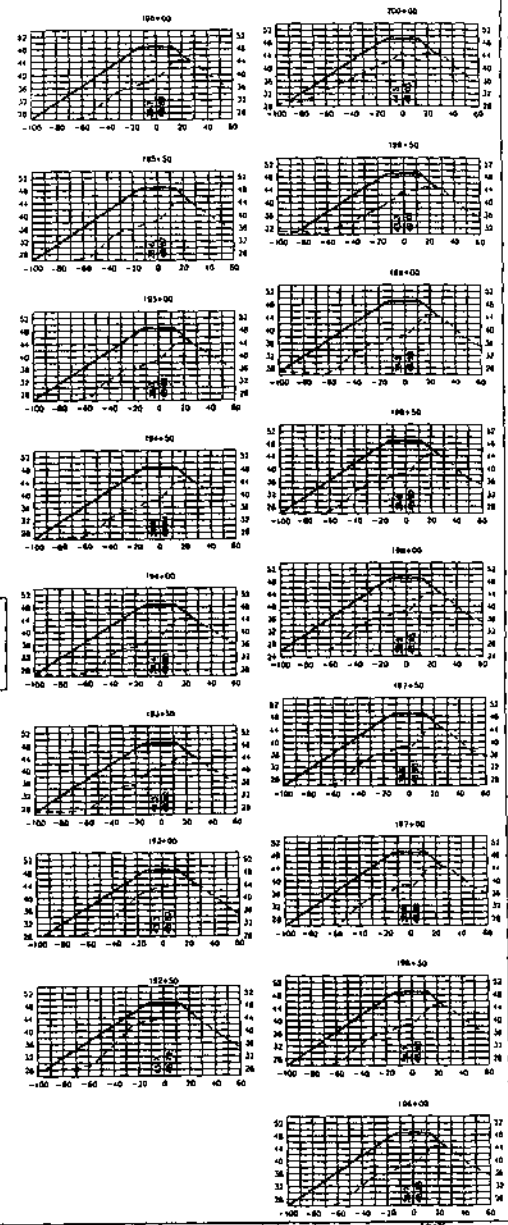
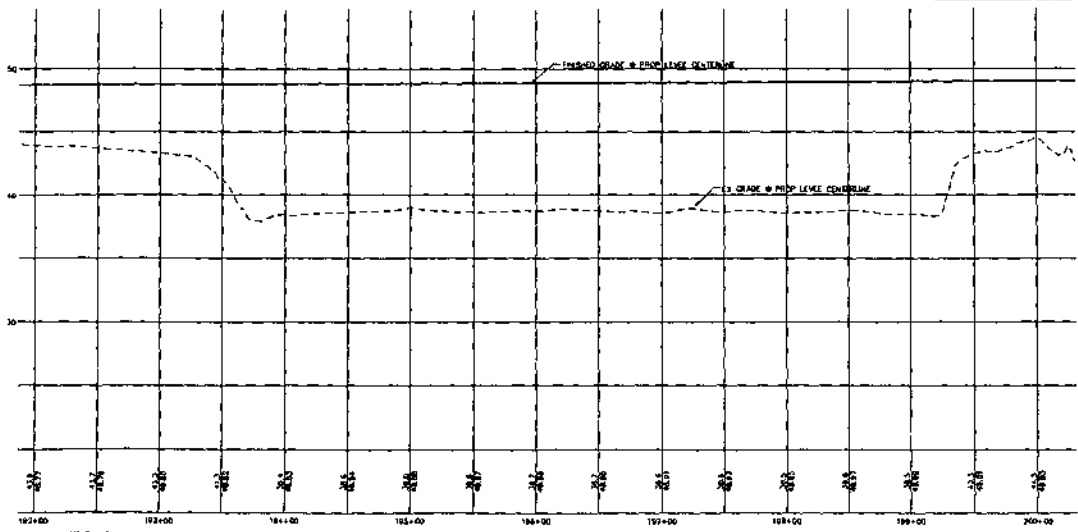
DESIGNED BY LP DRAWN BY LUC CHECKED BY LP	<b>REICHARDT &amp; FBE</b> ENGINEERING, INC. CONSULTING ENGINEERS PO Box 878 423 Front St., 5th Fl. Lynden, Washington 98281 Ph: (360) 334-3887 Fax: (360) 354-6167	NO. DATE REV. 5/08	CITY OF BURLINGTON	<b>DIKE 12 LEVEE CERTIFICATION</b> PROPOSED LEVEE ALIGNMENT STA 173+00 TO 182+50	DWG / DWG 09031 SCALE 1" = 50' x 1" = 5'	SHEET 3-3-11 11
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Station	Fill Volume (CY)	Cumulative Fill Volume (CY)
191+50	1,171	147,138
192+00	1,642	148,780
193+50	1,703	150,483
194+00	1,783	152,266
194+50	1,722	153,988
195+00	4,726	158,714
195+50	4,957	163,671
196+00	1,126	164,797
196+50	1,781	166,578
197+00	1,291	167,869
197+50	1,247	169,116
198+00	1,744	170,860
198+50	5,772	176,632
199+00	4,429	181,061
199+50	4,086	185,147
200+00	4,037	189,184

**LEGEND**

- PROPOSED LEVEE MATCHPOINT
- PROPOSED LEVEE CENTERLINE
- - - EXISTING LEVEE CENTERLINE
- - - EXISTING ASPHALT ROADWAY
- - - EXISTING GRAVEL ROADWAY
- EXISTING FENCELINE



DESIGNED BY  
LD  
DRAWN BY  
LNC  
CHECKED BY  
LP

**REICHARDT & EBE**  
ENGINEERING, INC.  
20 New 878 423 Front St., Ste 201  
Lyceris, Washington 06254  
Ph: (360) 344-3887  
Fax: (360) 354-0402

NO GATE REVISION BY

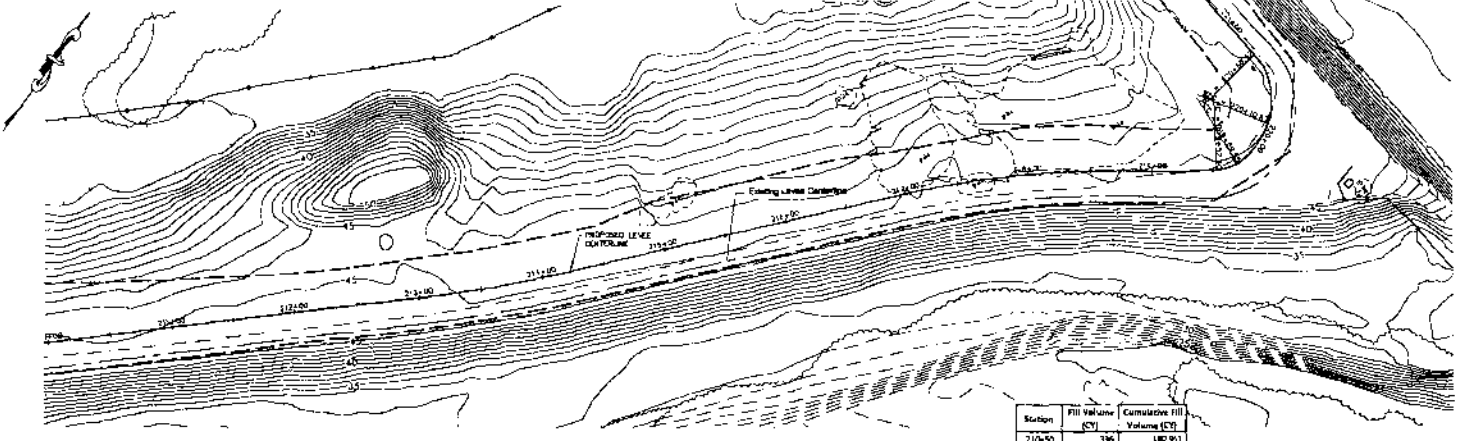
CITY OF BURLINGTON

DIKE 12 LEVEE CERTIFICATION  
PROPOSED LEVEE ALIGNMENT  
STA 192+00 TO 200+00

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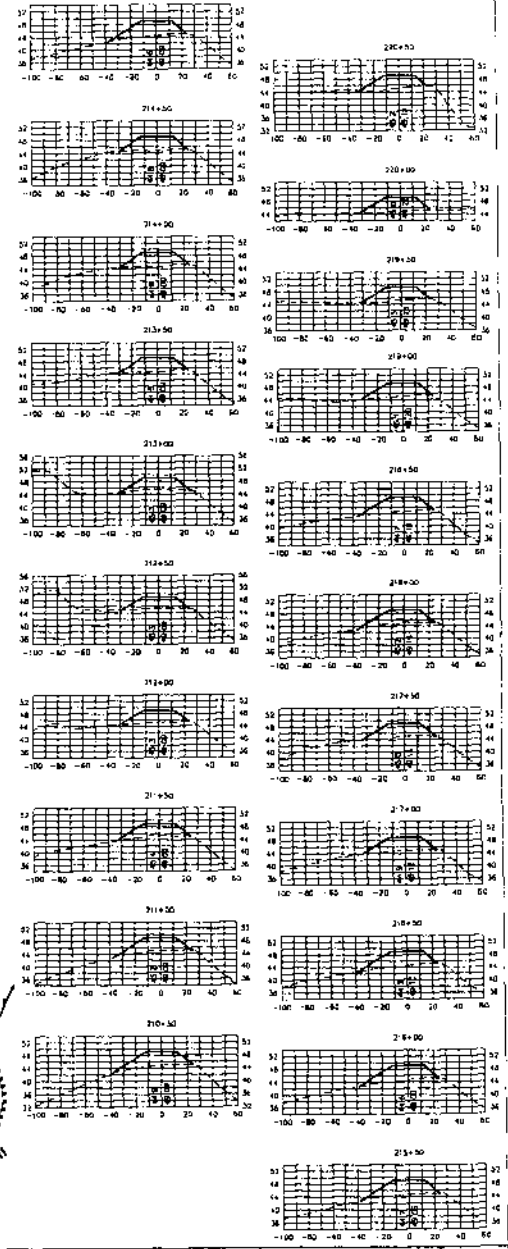
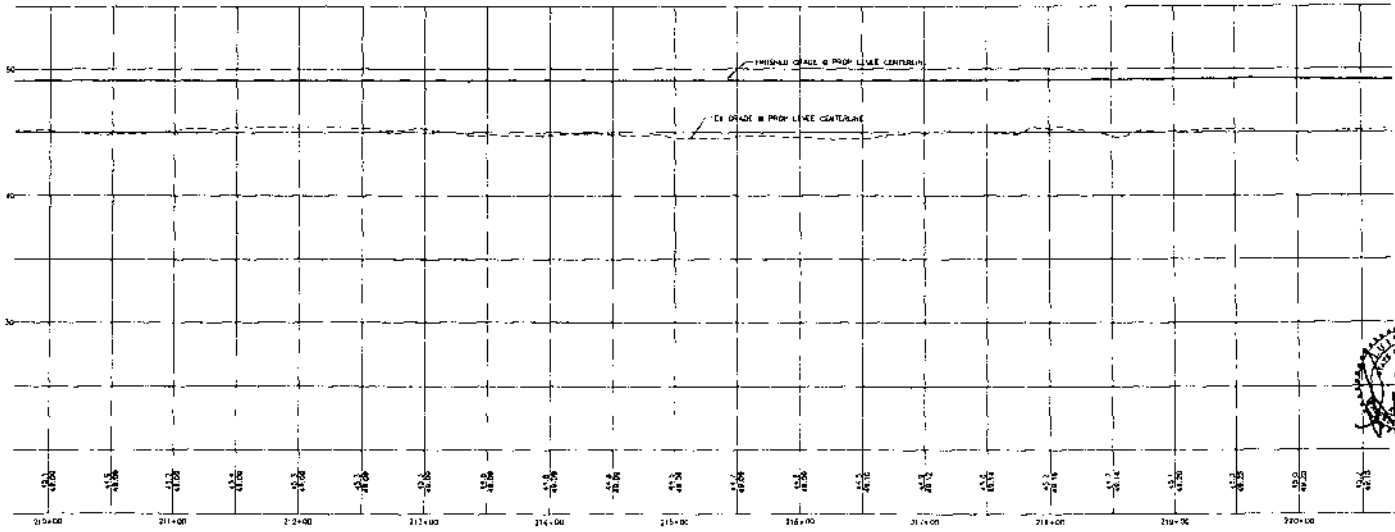
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	PROPOSED LEVEE WATCHPOINT
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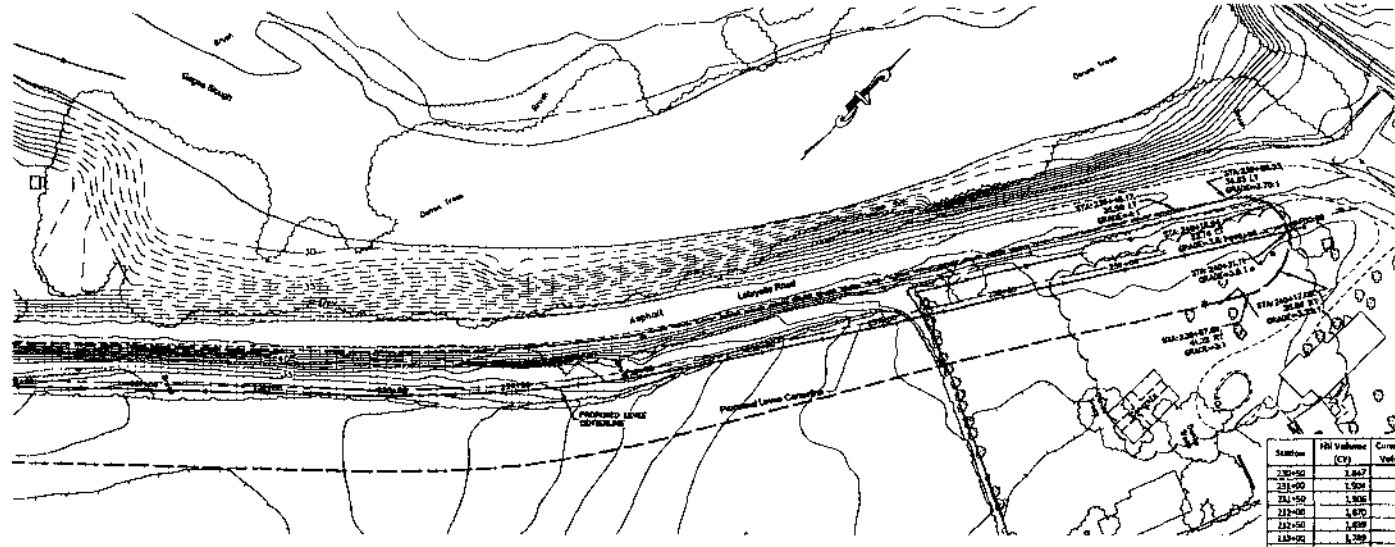
LEGEND

Station	Fill Volume (CY)	Cumulative Fill Volume (CY)
210+50	136	182,851
211+00	279	183,260
211+50	288	183,648
212+00	278	183,836
212+50	287	184,123
213+00	287	184,410
213+50	312	184,722
214+00	315	185,037
214+50	337	185,374
215+00	367	185,741
215+50	362	186,103
216+00	369	186,472
216+50	373	186,845
217+00	330	187,175
217+50	311	187,486
218+00	340	187,826
218+50	326	188,152
219+00	328	188,480
219+50	299	188,779
220+00	294	189,073
220+50	282	189,355



DESIGNED BY LP DRAWN BY LJC CHECKED BY LP	<b>REICHHARDT &amp; EBE</b> ENGINEERING, INC. <small>CONSULTING ENGINEERS</small> PO Box 978 423 First St. Ste 201 Lynden, Washington 98281 Ph (360) 354-3687 Fax (360) 354-0127	CITY OF BURLINGTON BY _____ TITLE _____	<b>DIKE 12 LEVEE CERTIFICATION</b> PROPOSED LEVEE ALIGNMENT STA 210+00 TO 220+50	DATE / SWG 09/03 / SPI SCALE 4" = 50'    1" = 5' SHEET 3-3 <b>15</b>
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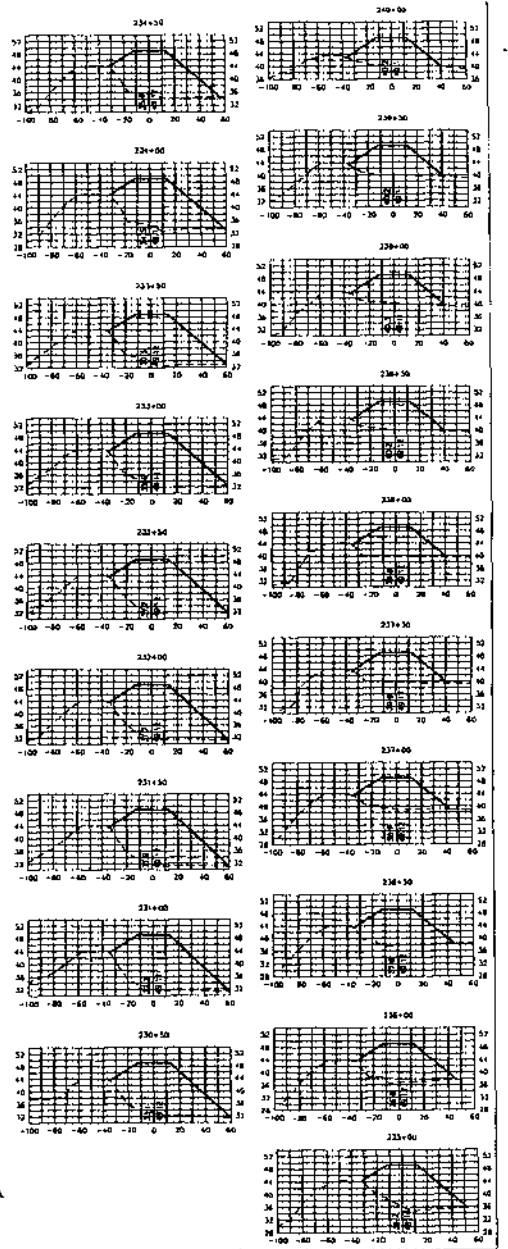
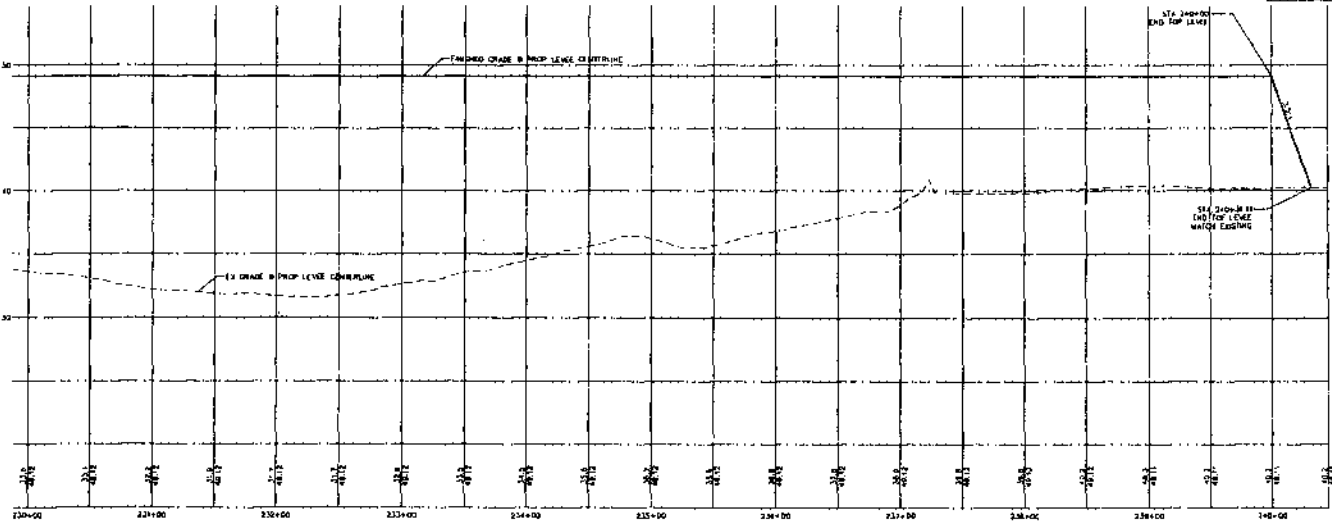
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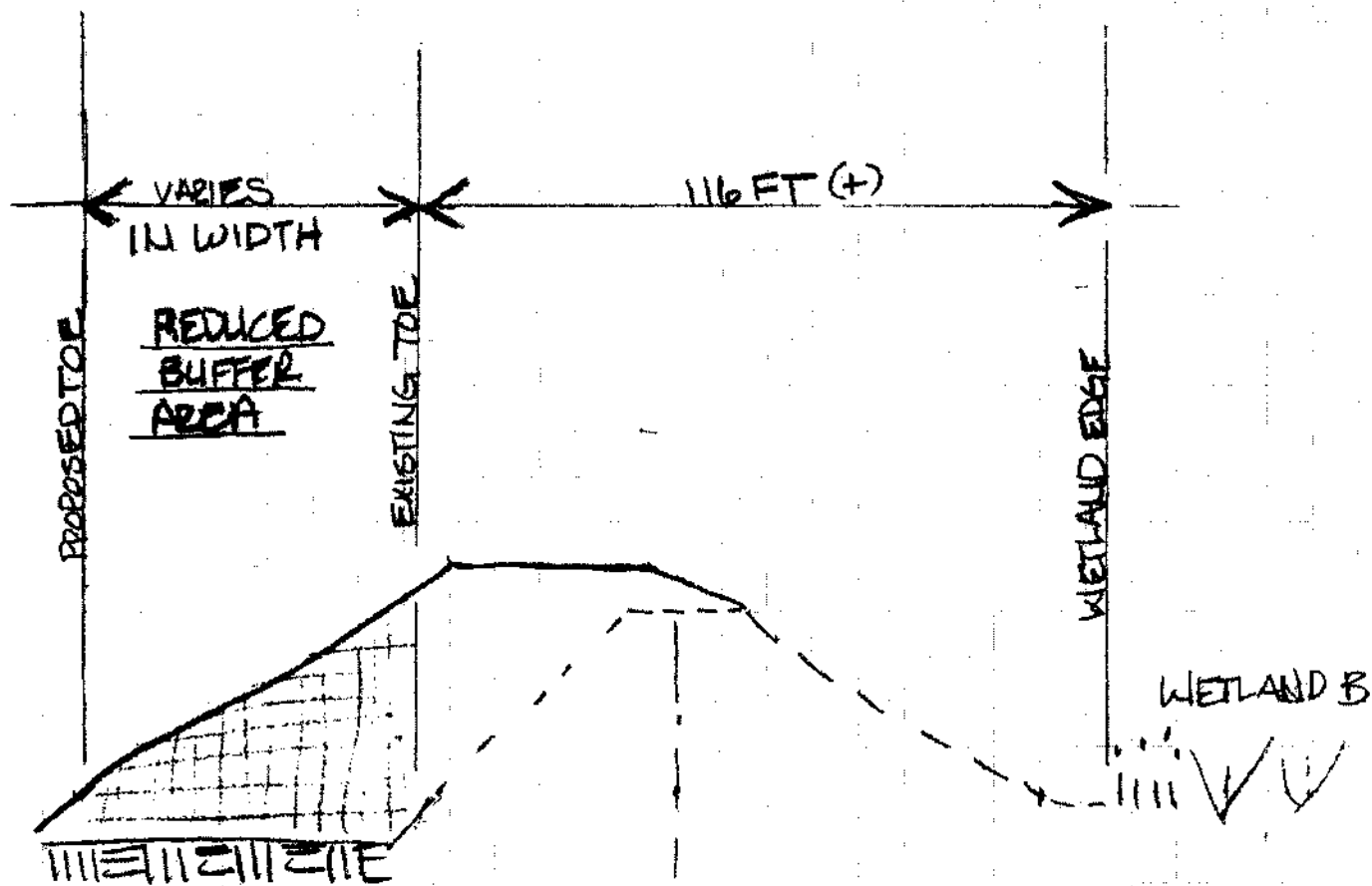
**LEGEND**

- PROPOSED LEVEE MATCHPOINT
- PROPOSED LEVEE CENTERLINE
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- EXISTING FENCELINE

Station	Fill Volume (CY)	Cumulative Fill Volume (CY)
230+00	1,847	205,028
231+00	1,901	206,929
232+00	1,900	208,829
233+00	1,870	210,699
234+00	1,870	212,569
235+00	1,789	214,358
236+00	1,689	216,047
237+00	1,549	217,596
238+00	1,407	218,993
239+00	1,373	220,366
240+00	1,250	221,616
241+00	1,145	222,761
242+00	1,019	223,780
243+00	799	224,579
244+00	619	225,198
245+00	383	225,581
246+00	256	225,837
247+00	91	225,928
248+00	263	226,191
249+00	271	226,462



DESIGNED BY LP DRAWN BY LKC CHECKED BY LP	<b>REICHARDT &amp; EBE</b> ENGINEERING, INC. CONSULTING ENGINEERS PO Box 978 423 Front St. Ste 201 Lynden, Washington 98284 Ph (360) 354-3687 Fax (360) 354-2407	CITY OF BURLINGTON DIKE 12 LEVEE CERTIFICATION PROPOSED LEVEE ALIGNMENT STA 230+00 TO 240+00	DATE 09/03/21 SCALE H1"=50' V1"=5' SHEET 3-3 11 17
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SKETCH

CROSS-SECTION LOOKING DOWNSTREAM NEAR STA: 178

WETLAND B BUFFER DD-12