



City of Tacoma  
 Community & Economic Development Department  
 Building & Land Use Services  
 747 Market St, Room 345  
 Tacoma, WA 98402

# PUBLIC NOTICE

Date of Notification: 4/21/2011  
 Application Received: 4/11/2011  
 Application Complete: 4/11/2011

**Applicant:** Robert Brenner, Port of Tacoma, PO Box 1837, Tacoma, WA 98401-1837, 253-592-6704  
 2207 East 11th Street, 2901 Port of Tacoma Road, 1815 Port of Tacoma  
**Location:** Road, 710 Port of Tacoma Road, 301 Port of Tacoma Road, 2340 Alexander Avenue, 3401 Taylor Way and 301 Port of Tacoma Road  
**Application No:** SHR2011-40000161828  
**Proposal:**  
 A Shoreline Substantial Development Permit for the installation of an emergency warning system throughout multiple sites within the Port of Tacoma. The work includes the installation of ten (10) steel poles with mounted equipment, bollards, underground conduit, and associated installation activities. The proposed work is all located within the "S-10" Shoreline District – Port Industrial.

**Comments Due:** 5/23/2011

**For further information:** Log onto the website at <http://govme.org> and select "Permit Information" then "Land Use Notices". The case file may be viewed in Building & Land Use Services, 747 Market Street, Room 345.

**Documents to Evaluate the Proposal:**  
 Tacoma Municipal Code, Comprehensive Plan, JARPA, Environmental Determination, and Unanticipated Discover Plan for Cultural Resources/Tribal Artifacts/Remains

**Studies Requested:**  
 None

**Other Required Permits:**  
 CAPO Exemption, Building Permits

**Applicable Regulations of the Tacoma Municipal Code:**  
 Chapter 13.05 Land Use Permit Procedures, 13.10 Shoreline Management, 13.11 Critical Areas Preservation

**Public Meeting:** A public meeting may be requested by the area neighborhood council, a qualified neighborhood group, or by written request of the owners of five or more properties who receive this notice.

A final decision on the proposal will be made following the comment period. A summary of the final decision will be sent to those parties who receive this notice. A complete copy of the final decision will be mailed to those parties who request a copy or to those who have commented on the project. Appeal provisions will be included with both the summary and the complete copy of the final decision.

**Staff Contact:** Charla Heutinck, Associate Planner, 747 Market St, Room 345, (253) 594-7971, [cheutinck@cityoftacoma.org](mailto:cheutinck@cityoftacoma.org)

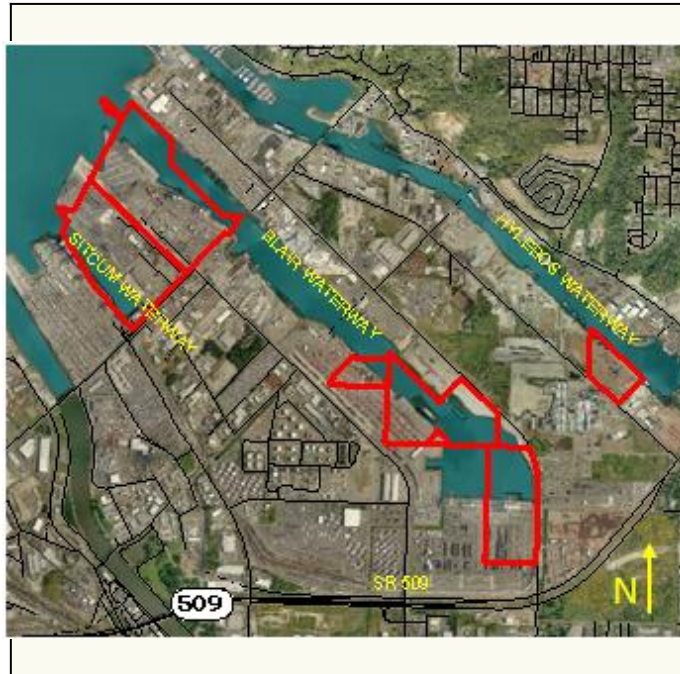
**Environmental Review:** Per SEPA, WAC 197-11-340, the Lead Agency has issued an environmental determination for the project. For further information regarding SEPA, please contact the project applicant.

*The City of Tacoma does not discriminate on the basis of disabilities in any of its programs or services.*

*Upon request, special accommodations can be provided within five (5) business days by contacting the City Clerk's Office at 591-5171 (voice) or 591-5058 (TDD)*



City of Tacoma  
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Tacoma, WA 98402



## NOTICE OF LAND USE APPLICATION



Ms. Jennifer Ward  
City of Tacoma, BLUS  
747 Market St, Rm 345  
Tacoma, WA 98402-3769

April 8, 2011

Subject: JARPA Submittal for OGT-7 Port-Wide Emergency Warning System Project

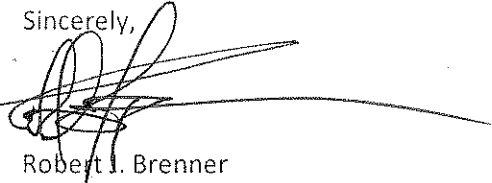
Dear ~~Ms. Ward,~~ 

Enclosed, please find a complete application packet for the referenced project. Included are the JARPA, with a project description and list of adjacent properties, Unanticipated Discovery Plan, SEPA checklist and threshold determination, a check in the amount of \$7,333.18 to cover the application fee, and a disk with all of the above, *sans* check, in electronic format. The information contained therein, and below, meets the City's needs as discussed in the scoping meeting held in your offices on March 30<sup>th</sup> and communicated in your email of the same date. I believe you will find that the work, as described, meets the criteria of WAC 173.27.150 regarding shoreline substantial development permits.

While Tacoma Municipal Code (TMC) typically requires that projects "...be designed to maximize the public view and public access to and along the shoreline where appropriate" for all proposed developments along the shoreline (TMC 13.10.175.1.), the referenced section, subsection "a" also allows authorization of a project if it is demonstrated and determined that, among other criteria; 1. "Unavoidable health or safety hazards to the public exist, which cannot be prevented by any practical means" and 2. "inherent security requirements of the use cannot be satisfied through the application of alternative design features". The locations of the proposed installations are within very dangerous areas where trucks and limited-view forklifts, top-picks, and straddle carriers are frequently transporting containers and bulk/break-bulk goods across terminals at relatively high speeds and large cranes operate on marginal wharves along the shoreline. The environment is far too hazardous for the general public to be allowed access, as only those with specialized training are typically allowed into those areas. Furthermore; those same locations are also access-limited terminals and facilities that are governed by national security laws. It is not appropriate in this case to require public access as that access runs counter to the laws of the nation, which require that the project areas be limited in access to personnel who have already been prescreened and approved by the federal government (in the form of a Transportation Worker Identification Credential) after conducting a background check.

I hope that you will find the enclosed to be to your satisfaction. Of course; if you have any questions regarding this application, please don't hesitate to contact me at the address below or by phone at 253-592-6704.

Sincerely,

A handwritten signature in black ink, appearing to read 'R. Brenner', is written over a horizontal line. The signature is stylized and somewhat cursive.

Robert I. Brenner  
Environmental Project Manager

Enclosures



2010

WASHINGTON STATE

Joint Aquatic Resources Permit Application (JARPA) Form<sup>1</sup>

USE BLACK OR BLUE INK TO ENTER ANSWERS IN WHITE SPACES BELOW.



US Army Corps of Engineers Seattle District

AGENCY USE ONLY

Date received:

Agency reference #: \_\_\_\_\_

Tax Parcel #(s): \_\_\_\_\_

Part 1—Project Identification

1. Project Name (A name for your project that you create. Examples: Smith's Dock or Seabrook Lane Development) [help]<sup>2</sup>

Port-Wide Emergency Warning System Project

Part 2—Applicant

The person or organization responsible for the project. [help]

2a. Name (Last, First, Middle) and Organization (if applicable)

Port of Tacoma, ATTN: Robert Brenner

2b. Mailing Address (Street or PO Box)

PO Box 1837

2c. City, State, Zip

Tacoma, WA 98401-1837

2d. Phone (1)

(253) 592-6704

2e. Phone (2)

(253) 377-8665

2f. Fax

(253) 383-9440

2g. E-mail

rbrenner@portoftacoma.com

Part 3—Authorized Agent or Contact

Person authorized to represent the applicant about the project. (Note: Authorized agent(s) must sign 11b. of this application.) [help]

3a. Name (Last, First, Middle) and Organization (if applicable)

3b. Mailing Address (Street or PO Box)

<sup>1</sup> Additional forms may be required for the following permits:

- If your project may qualify for Department of the Army authorization through a Regional General Permit (RGP), contact the U.S. Army Corps of Engineers for application information (206) 764-3495.
- If your project might affect species listed under the Endangered Species Act, you will need to fill out a Specific Project Information Form (SPIF) or prepare a Biological Evaluation. Forms can be found at [http://www.nws.usace.army.mil/PublicMenu/Menu.cfm?sitename=REG&pagename=mainpage\\_ESA](http://www.nws.usace.army.mil/PublicMenu/Menu.cfm?sitename=REG&pagename=mainpage_ESA)
- If you are applying for an Aquatic Resources Use Authorization you will need to fill out and submit an Application for Authorization to Use State-Owned Aquatic Lands form to DNR, which can be found at [http://www.dnr.wa.gov/Publications/aqr\\_use\\_auth\\_app.doc](http://www.dnr.wa.gov/Publications/aqr_use_auth_app.doc)
- Not all cities and counties accept the JARPA for their local Shoreline permits. If you think you will need a Shoreline permit, contact the appropriate city or county government to make sure they will accept the JARPA.

<sup>2</sup> To access an online JARPA form with [help] screens, go to

[http://www.epermittng.wa.gov/site/alias\\_resourcecenter/jarpa\\_jarpa\\_form/9984/jarpa\\_form.aspx](http://www.epermittng.wa.gov/site/alias_resourcecenter/jarpa_jarpa_form/9984/jarpa_form.aspx) .

For other help, contact the Governor's Office of Regulatory Assistance at 1-800-917-0043 or [help@ora.wa.gov](mailto:help@ora.wa.gov).

<b>3c. City, State, Zip</b>			
<b>3d. Phone (1)</b>	<b>3e. Phone (2)</b>	<b>3f. Fax</b>	<b>3g. E-mail</b>
(    )	(    )	(    )	

### Part 4–Property Owner(s)

Contact information for people or organizations owning the property(ies) where the project will occur. [\[help\]](#)

- Same as applicant. (Skip to Part 5.)
- Repair or maintenance activities on existing rights-of-way or easements. (Skip to Part 5.)
- There are multiple property owners. Complete the section below and fill out JARPA Attachment A for each additional property owner.

<b>4a. Name (Last, First, Middle) and Organization (if applicable)</b>			
<b>4b. Mailing Address (Street or PO Box)</b>			
<b>4c. City, State, Zip</b>			
<b>4d. Phone (1)</b>	<b>4e. Phone (2)</b>	<b>4f. Fax</b>	<b>4g. E-mail</b>

### Part 5–Project Location(s)

Identifying information about the property or properties where the project will occur. [\[help\]](#)

- There are multiple project locations (e.g., linear projects). Complete the section below and use JARPA Attachment B for each additional project location.

<b>5a. Indicate the type of ownership of the property. (Check all that apply.)</b> <a href="#">[help]</a>
<input type="checkbox"/> State Owned Aquatic Land (If yes or maybe, contact the Department of Natural Resources (DNR) at (360) 902-1100)
<input type="checkbox"/> Federal
<input checked="" type="checkbox"/> Other publicly owned (state, county, city, special districts like schools, <b>ports</b> , etc.)
<input type="checkbox"/> Tribal
<input type="checkbox"/> Private
<b>5b. Street Address (Cannot be a PO Box. If there is no address, provide other location information in 5p.)</b> <a href="#">[help]</a>
Multiple addresses, see attached description
<b>5c. City, State, Zip (If the project is not in a city or town, provide the name of the nearest city or town.)</b> <a href="#">[help]</a>
Tacoma, WA 98421
<b>5d. County</b> <a href="#">[help]</a>
Pierce

5e. Provide the section, township, and range for the project location. [\[help\]](#)

¼ Section	Section	Township	Range
Multiple locations			

5f. Provide the latitude and longitude of the project location. [\[help\]](#)

- Example: 47.03922 N lat. / -122.89142 W long. (NAD 83)

See attached description

5g. List the tax parcel number(s) for the project location. [\[help\]](#)

- The local county assessor's office can provide this information.

See attached description

5h. Contact information for all adjoining property owners. (If you need more space, use JARPA Attachment C.) [\[help\]](#)

Name	Mailing Address	Tax Parcel # (if known)
See attached adjacent properties list		

5i. List all wetlands on or adjacent to the project location. [\[help\]](#)

None

5j. List all waterbodies (other than wetlands) on or adjacent to the project location. [\[help\]](#)

Sitcum Waterway, Blair Waterway, Hylebos Waterway

5k. Is any part of the project area within a 100-year flood plain? [\[help\]](#)

- Yes     No     Don't know

5l. Briefly describe the vegetation and habitat conditions on the property. [\[help\]](#)

There is no vegetation or habitat, as the work is within the paved terminal.

5m. Describe how the property is currently used. [\[help\]](#)

The properties are used for the loading and unloading of containerized cargo, break-bulk and automobile cargo vessels.

5n. Describe how the adjacent properties are currently used. [\[help\]](#)

Adjacent properties are used for the loading and unloading of containerized cargo vessels, an intermodal yard for the loading and unloading of trains, and for general business (retail/commercial and industrial)

**5o.** Describe the structures (above and below ground) on the property, including their purpose(s). [\[help\]](#)

There are numerous administration buildings, storage facilities, guard shacks and maintenance structures on the various sites, as well as light poles and other minor accessory structures.

**5p.** Provide driving directions from the closest highway to the project location, and attach a map. [\[help\]](#)

Exit I-5 at Port of Tacoma Rd, Head N to project addresses along Port of Tacoma Rd, or proceed through the security gate at the end of the road for Husky and Terminal 7. For those along Taylor and Alexander; exit I-5 at 54<sup>th</sup> Street and head north past highway 509 to the WHP1 project address on the right, or continue to Lincoln Avenue, turn left and proceed to Alexander and turn left again and proceed to the project address on the left.

## Part 6--Project Description

**6a.** Summarize the overall project. You can provide more detail in 6d. [\[help\]](#)

See attached project description.

**6b.** Indicate the project category. (Check all that apply) [\[help\]](#)

- Commercial     Residential     Institutional     Transportation     Recreational  
 Maintenance     Environmental Enhancement

**6c.** Indicate the major elements of your project. (Check all that apply) [\[help\]](#)

- |   |   |  |  |
|---|---|--|--|
| <input type="checkbox"/> Aquaculture          | <input type="checkbox"/> Culvert              | <input type="checkbox"/> Float                   | <input type="checkbox"/> Road                          |
| <input type="checkbox"/> Bank Stabilization   | <input type="checkbox"/> Dam / Weir           | <input type="checkbox"/> Geotechnical Survey     | <input type="checkbox"/> Scientific Measurement Device |
| <input type="checkbox"/> Boat House           | <input type="checkbox"/> Dike / Levee / Jetty | <input type="checkbox"/> Land Clearing           | <input type="checkbox"/> Stairs                        |
| <input type="checkbox"/> Boat Launch          | <input type="checkbox"/> Ditch                | <input type="checkbox"/> Marina / Moorage        | <input type="checkbox"/> Stormwater facility           |
| <input type="checkbox"/> Boat Lift            | <input type="checkbox"/> Dock / Pier          | <input type="checkbox"/> Mining                  | <input type="checkbox"/> Swimming Pool                 |
| <input type="checkbox"/> Bridge               | <input type="checkbox"/> Dredging             | <input type="checkbox"/> Outfall Structure       | <input type="checkbox"/> Utility Line                  |
| <input type="checkbox"/> Bulkhead             | <input type="checkbox"/> Fence                | <input type="checkbox"/> Piling                  |  |
| <input type="checkbox"/> Buoy                 | <input type="checkbox"/> Ferry Terminal       | <input type="checkbox"/> Retaining Wall (upland) |  |
| <input type="checkbox"/> Channel Modification | <input type="checkbox"/> Fishway              |  |  |

Other: pole and bollard installation

**6d.** Describe how you plan to construct each project element checked in 6c. Include specific construction methods and equipment to be used. [\[help\]](#)

- Identify where each element will occur in relation to the nearest waterbody.
- Indicate which activities are within the 100-year flood plain.



See attached project description

6e. What are the start and end dates for project construction? (month/year) [\[help\]](#)

- If the project will be constructed in phases or stages, use JARPA Attachment D to list the start and end dates of each phase or stage.

Start date: July 2011

End date: June 2012

See JARPA Attachment D

6f. Describe the purpose of the project and why you want or need to perform it. [\[help\]](#)

This project is designed to provide longshore and terminal workers with an emergency alert system that is audible on the terminals in the event of an emergency. Workers currently have no such system, so the proposed project will make their working environment safer in the event of a lahar or other emergency.

6g. Fair market value of the project, including materials, labor, machine rentals, etc. [\[help\]](#)

The project is anticipated to cost approximately \$608,469.00

6h. Will any portion of the project receive federal funding? [\[help\]](#)

- If yes, list each agency providing funds.

Yes  No  Don't know The Dept of Homeland Security is providing funds for this project.

## Part 7–Wetlands: Impacts and Mitigation

Check here if there are wetlands or wetland buffers on or adjacent to the project area.  
(If there are none, skip to Part 8.) [\[help\]](#)

7a. Describe how the project has been designed to avoid and minimize adverse impacts to wetlands. [\[help\]](#)

Not applicable

7b. Will the project impact wetlands? [\[help\]](#)

Yes  No  Don't know

7c. Will the project impact wetland buffers? [\[help\]](#)

Yes  No  Don't know

7d. Has a wetland delineation report been prepared? [\[help\]](#)

- If yes, submit the report, including data sheets, with the JARPA package.

Yes  No

7e. Have the wetlands been rated using the Western Washington or Eastern Washington Wetland Rating System? [\[help\]](#)

- If yes, submit the wetland rating forms and figures with the JARPA package.

Yes    No    Don't know

**7f.** Have you prepared a mitigation plan to compensate for any adverse impacts to wetlands? [\[help\]](#)

- If yes, submit the plan with the JARPA package and answer 7g.
- If No, or Not applicable, explain below why a mitigation plan should not be required.

Yes    No    Not applicable

**7g.** Summarize what the mitigation plan is meant to accomplish, and describe how a watershed approach was used to design the plan. [\[help\]](#)

**7h.** Use the table below to list the type and rating of each wetland impacted; the extent and duration of the impact; and the type and amount of mitigation proposed. Or if you are submitting a mitigation plan with a similar table, you can state (below) where we can find this information in the plan. [\[help\]](#)

Activity (fill, drain, excavate, flood, etc.)	Wetland Name <sup>1</sup>	Wetland type and rating category <sup>2</sup>	Impact area (sq. ft. or Acres)	Duration of impact <sup>3</sup>	Proposed mitigation type <sup>4</sup>	Wetland mitigation area (sq. ft. or acres)

<sup>1</sup> If no official name for the wetland exists, create a unique name (such as "Wetland 1"). The name should be consistent with other project documents, such as a wetland delineation report.

<sup>2</sup> Ecology wetland category based on current Western Washington or Eastern Washington Wetland Rating System. Provide the wetland rating forms with the JARPA package.

<sup>3</sup> Indicate the days, months or years the wetland will be measurably impacted by the activity. Enter "permanent" if applicable.

<sup>4</sup> Creation (C), Re-establishment/Rehabilitation (R), Enhancement (E), Preservation (P), Mitigation Bank/In-lieu fee (B)

Page number(s) for similar information in the mitigation plan, if available: \_\_\_\_\_

**7i.** For all filling activities identified in 7h., describe the source and nature of the fill material, the amount in cubic yards that will be used, and how and where it will be placed into the wetland. [\[help\]](#)

**7j.** For all excavating activities identified in 7h., describe the excavation method, type and amount of material in cubic yards you will remove, and where the material will be disposed. [\[help\]](#)

## Part 8—Waterbodies (other than wetlands): Impacts and Mitigation

In Part 8, "waterbodies" refers to non-wetland waterbodies. (See Part 7 for information related to wetlands.) [\[help\]](#)

Check here if there are waterbodies on or adjacent to the project area. (If there are none, skip to Part 9.)

**8a.** Describe how the project is designed to avoid and minimize adverse impacts to the aquatic environment. [\[help\]](#)

Not applicable

None of the work occurs in or over the water. Construction and stormwater BMPs will be used to avoid impact to the waterways adjacent to the work areas.

**8b.** Will your project impact a waterbody or the area around a waterbody? [\[help\]](#)

Yes  No

**8c.** Have you prepared a mitigation plan to compensate for the project's adverse impacts to non-wetland waterbodies? [\[help\]](#)

- If yes, submit the plan with the JARPA package and answer 8d.
- If No, or Not applicable, explain below why a mitigation plan should not be required.

Yes  No  Not applicable

There will be no impacts to non-wetland waterbodies, and the areas adjacent to those waterways where work will occur are fully paved and offer no habitat quality or value, so mitigation is not appropriate.

**8d.** Summarize what the mitigation plan is meant to accomplish. Describe how a watershed approach was used to design the plan.

- If you already completed 7g., you do not need to restate your answer here. [\[help\]](#)

NA

**8e.** Summarize impact(s) to each waterbody in the table below. [\[help\]](#)

Activity (clear, dredge, fill, pile drive, etc.)	Waterbody name <sup>1</sup>	Impact location <sup>2</sup>	Duration of impact <sup>3</sup>	Amount of material to be placed in or removed from waterbody	Area (sq. ft. or linear ft.) of waterbody directly affected
Pole installation	Blair, Sitcum	Adjacent	1-2 day ea.	None	None
Bollard installation	Blair, Sitcum	Adjacent	1-2 day ea.	None	None
Trenching	Blair, Sitcum	Adjacent	1-3 day ea.	None	None

<sup>1</sup> If no official name for the waterbody exists, create a unique name (such as "Stream 1") The name should be consistent with other documents provided.

<sup>2</sup> Indicate whether the impact will occur in or adjacent to the waterbody. If adjacent, provide the distance between the impact and the waterbody and indicate whether the impact will occur within the 100-year flood plain.

<sup>3</sup> Indicate the days, months or years the waterbody will be measurably impacted by the work. Enter "permanent" if applicable.

**8f.** For all activities identified in 8e., describe the source and nature of the fill material, amount (in cubic yards) you will use, and how and where it will be placed into the waterbody. [\[help\]](#)

No material will be placed in the waterbodies

**8g.** For all excavating or dredging activities identified in 8e., describe the method for excavating or dredging, type and amount of material you will remove, and where the material will be disposed. [\[help\]](#)

All excavation is expected to occur with either an auger bit or with a track hoe. Materials excavated will be analyzed and disposed appropriately at a licensed facility if required. Materials proposed for removal include asphalt pavement, rock base-course materials, and existing marine fill soils.

## Part 9–Additional Information

Any additional information you can provide helps the reviewer(s) understand your project. Complete as much of this section as you can. It is ok if you cannot answer a question.

**9a.** If you have already worked with any government agencies on this project, list them below. [\[help\]](#)

Agency Name	Contact Name	Phone	Most Recent Date of Contact
City of Tacoma	Jennifer Ward	(253) 591-5022	4/4/11
		( )	

**9b.** Are any of the wetlands or waterbodies identified in Part 7 or Part 8 on the Washington Department of Ecology's 303(d) List? [\[help\]](#)

- If **yes**, list the parameter(s) below.
- If you don't know, use Washington Department of Ecology's Water Quality Assessment tools at: <http://www.ecy.wa.gov/programs/wq/303d/>.

Yes    No

The Sitcum and Hylebos Waterways are part of the Inner Commencement Bay Superfund Site. The Hylebos Waterway is on the 303(d) list for PCBs, DDT, HPAH, and chlorinated pesticides. A small portion of the Blair Waterway is on the 303(d) list for PCBs and Dieldren.

**9c.** What U.S. Geological Survey Hydrological Unit Code (HUC) is the project in? [\[help\]](#)

- Go to <http://cfpub.epa.gov/surf/locate/index.cfm> to help identify the HUC.

17110019

**9d.** What Water Resource Inventory Area Number (WRIA #) is the project in? [\[help\]](#)

- Go to <http://www.ecy.wa.gov/services/gis/maps/wria/wria.htm> to find the WRIA #.

10

**9e.** Will the in-water construction work comply with the State of Washington water quality standards for turbidity? [\[help\]](#)

- Go to <http://www.ecy.wa.gov/programs/wq/swqs/criteria.html> for the standards.

Yes    No    Not applicable

**9f.** If the project is within the jurisdiction of the Shoreline Management Act, what is the local shoreline environment designation? [\[help\]](#)

- If you don't know, contact the local planning department.
- For more information, go to: [http://www.ecy.wa.gov/programs/sea/sma/laws\\_rules/173-26/211\\_designations.html](http://www.ecy.wa.gov/programs/sea/sma/laws_rules/173-26/211_designations.html).

Rural    Urban    Natural    Aquatic    Conservancy    Other \_\_\_\_\_

**9g.** What is the Washington Department of Natural Resources Water Type? [\[help\]](#)

- Go to [http://www.dnr.wa.gov/BusinessPermits/Topics/ForestPracticesApplications/Pages/fp\\_watertyping.aspx](http://www.dnr.wa.gov/BusinessPermits/Topics/ForestPracticesApplications/Pages/fp_watertyping.aspx) for the Forest Practices Water Typing System.

Shoreline    Fish    Non-Fish Perennial    Non-Fish Seasonal

**9h.** Will this project be designed to meet the Washington Department of Ecology's most current stormwater manual? [\[help\]](#)

- If **no**, provide the name of the manual your project is designed to meet.

Yes    No

Name of manual:

<p><b>9i.</b> If you know what the property was used for in the past, describe below. <a href="#">[help]</a></p> <p>The properties have all been used for shipping-related purposes since the tideflats were filled and the waterways created.</p>
<p><b>9j.</b> Has a cultural resource (archaeological) survey been performed on the project area? <a href="#">[help]</a></p> <ul style="list-style-type: none"> <li>• If <b>yes</b>, attach it to your JARPA package.</li> </ul> <p><input type="checkbox"/> Yes   <input checked="" type="checkbox"/> No</p>
<p><b>9k.</b> Name each species listed under the federal Endangered Species Act that occurs in the vicinity of the project area or might be affected by the proposed work. <a href="#">[help]</a></p> <p>Bald Eagle, Marbled Murrelet, Orca, Chinook, Steelhead, and Bull Trout are all found in the vicinity of the project area. Rockfish may also be found in the vicinity of the project, though no scientific collection has reported rockfish in Commencement Bay in many years. The project is expected to have no effect on these species due to the upland nature of the work.</p>
<p><b>9l.</b> Name each species or habitat on the Washington Department of Fish and Wildlife's Priority Habitats and Species List that might be affected by the proposed work. <a href="#">[help]</a></p> <p>Due to its location on a developed shoreline, there is no priority habitat present in the proposed work zone. The priority species that might theoretically be present and affected by the proposed work are stellar sea lions, orca, bald eagles, marbled murrelets, rockfish, bull trout, steelhead, and chinook salmon. However, the location of the work on developed lands adjacent to highly developed waterways, and the short duration, make it extremely unlikely that any of the above would be affected in any way.</p>

## Part 10—SEPA Compliance and Permits

Use the resources and checklist below to identify the permits you are applying for.

- Online Project Questionnaire at <http://apps.ecy.wa.gov/opas/>.
- Governor's Office of Regulatory Assistance at (800) 917-0043 or [help@ora.wa.gov](mailto:help@ora.wa.gov).
- For a list of agency addresses to send your application, click on the "where to send your completed JARPA" at <http://www.epermitting.wa.gov>.

<p><b>10a.</b> Compliance with the State Environmental Policy Act (SEPA). (Check all that apply.) <a href="#">[help]</a></p> <ul style="list-style-type: none"> <li>• For more information about SEPA, go to <a href="http://www.ecy.wa.gov/programs/sea/sepa/e-review.html">www.ecy.wa.gov/programs/sea/sepa/e-review.html</a>.</li> </ul>
<p><input checked="" type="checkbox"/> A copy of the SEPA determination or letter of exemption is included with this application.</p>
<p><input type="checkbox"/> A SEPA determination is pending with _____ (lead agency). The expected decision date is _____.</p>
<p><input type="checkbox"/> I am applying for a Fish Habitat Enhancement Exemption. (Check the box below in 10b.) <a href="#">[help]</a></p>
<p><input type="checkbox"/> This project is exempt (choose type of exemption below).</p> <p><input type="checkbox"/> Categorical Exemption. Under what section of the SEPA administrative code (WAC) is it exempt? _____</p> <p><input type="checkbox"/> Other: _____</p>
<p><input type="checkbox"/> SEPA is pre-empted by federal law.</p>
<p><b>10b.</b> Indicate the permits you are applying for. (Check all that apply.) <a href="#">[help]</a></p>
<p><b>LOCAL GOVERNMENT</b></p>

**Local Government Shoreline permits:**

- Substantial Development     Conditional Use     Variance
- Shoreline Exemption Type (explain): \_\_\_\_\_

**Other city/county permits:**

- Floodplain Development Permit     Critical Areas Ordinance

**STATE GOVERNMENT**

**Washington Department of Fish and Wildlife:**

- Hydraulic Project Approval (HPA)     Fish Habitat Enhancement Exemption

**Washington Department of Ecology:**

- Section 401 Water Quality Certification

**Washington Department of Natural Resources:**

- Aquatic Resources Use Authorization

**FEDERAL GOVERNMENT**

**United States Department of the Army permits (U.S. Army Corps of Engineers):**

- Section 404 (discharges into waters of the U.S.)     Section 10 (work in navigable waters)

**United States Coast Guard permits:**

- General Bridge Act Permit     Private Aids to Navigation (for non-bridge projects)

**Part 11—Authorizing Signatures**

Signatures are required before submitting the JARPA package. The JARPA package includes the JARPA form, project plans, photos, etc. [\[help\]](#)

**11a. Applicant Signature (required) [\[help\]](#)**

I certify that to the best of my knowledge and belief, the information provided in this application is true, complete, and accurate. I also certify that I have the authority to carry out the proposed activities, and I agree to start work only after I have received all necessary permits.

I hereby authorize the agent named in Part 3 of this application to act on my behalf in matters related to this application. \_\_\_\_\_ (initial)

By initialing here, I state that I have the authority to grant access to the property. I also give my consent to the permitting agencies entering the property where the project is located to inspect the project site or any work related to the project. RB (initial)

Robert J Brenner  
Applicant Printed Name

[Signature]  
Applicant Signature

4/6/11  
Date

**11b. Authorized Agent Signature [\[help\]](#)**

I certify that to the best of my knowledge and belief, the information provided in this application is true, complete, and accurate. I also certify that I have the authority to carry out the proposed activities and I agree to start work only after all necessary permits have been issued.

---

Authorized Agent Printed Name

Authorized Agent Signature

Date

**11c. Property Owner Signature (if not applicant).** [\[help\]](#)

Not required if project is on existing rights-of-way or easements.

I consent to the permitting agencies entering the property where the project is located to inspect the project site or any work. These inspections shall occur at reasonable times and, if practical, with prior notice to the landowner.

---

Property Owner Printed Name

Property Owner Signature

Date

18 U.S.C §1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly falsifies, conceals, or covers up by any trick, scheme, or device a material fact or makes any false, fictitious, or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious, or fraudulent statement or entry, shall be fined not more than \$10,000 or imprisoned not more than 5 years or both.

If you require this document in another format, contact The Governor's Office of Regulatory Assistance (ORA). People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341.

ORA publication number: ENV-019-09

## Project Description

The Port of Tacoma (Port) proposes installing an emergency warning system. The area of the project encompasses the Port Operated Terminal 7 (T7), Washington United Terminals (WUT), Blair Terminal (Blair), Pierce County Terminal (PCT), Husky Terminal (Husky), East Blair One Terminal (EB1), the West Hylebos Pier One facility (WHP1), and the North Intermodal Yard (NIM). In general, the proposed warning system will consist of pole mounted speakers to serve as an audible warning system. Each equipment pole will be a 40' steel fabrication supported by a reinforced concrete foundation. Mounted on each pole will be a speaker, communication dish, control cabinet, battery cabinet and a new sign. Power will be brought to the pole through below grade conduit connecting to a nearby power supply. A new antenna with a system controller will be installed at the Port's Security Bldg.

Each site receives the following:

T7- 1 equipment pole, 4 bollards and approximately 180 linear feet of conduit  
WUT- 2 equipment poles, 4 bollards and approximately 230 linear feet of conduit  
Blair- 1 equipment pole and approximately 40 linear feet of conduit  
PCT- 1 equipment pole, 4 bollards and approximately 30 linear feet of conduit  
Husky- 2 equipment poles, 8 bollards and approximately 20 linear feet of conduit  
EB1- 1 equipment pole, 2 bollards and approximately 10 linear feet of conduit  
WHP1- 1 equipment pole, 2 bollards and approximately 10 linear feet of conduit  
NIM- 1 equipment pole, 4 bollards and approximately 100 linear feet of conduit

Each equipment pole installation will require auguring a 54-inch diameter hole approximately 8 feet deep, for a total excavation of approximately 45 cubic yards for all pole installations. Standard trenches will measure approximately 30 inches wide by 30 inches deep, resulting in the excavating of approximately 150 cubic yards of soil for trenches. This results in a total of approximately 193 cubic yards of soil excavating. This ground disturbance will take place on existing hardened/improved surfaces and will be replaced in kind.

## Locations of proposal, including street address, if any:

This Project is located over several parcels within the Port of Tacoma industrial area east of Milwaukee Way and north of State Hwy 509 in Tacoma, WA. The site address for each terminal is as follows, all of which are in the City of Tacoma, County of Pierce, State of Washington, W.M.:

Port Operated Terminal 7  
2207 E. 11<sup>th</sup> St  
NW qtr Sec. 34, Twnbsp 21N, Range 3E  
City Parcel - 2275200633

Blair Terminal  
2901 Port of Tacoma Road  
SE qtr Sec. 35, Twnbsp 21N, Range 3E  
City Parcel - 0321354028

Washington United Terminals  
1815 Port Tacoma Road  
SW qtr Sec. 35, Twnbsp 21N, Range 3E  
City Parcel - 0321353014

Pierce County Terminal  
901 Port of Tacoma Road  
NW qtr Sec. 1, Twnbsp 20N, Range 3E  
City Parcel - 0320012066



Husky Terminal  
710 Port of Tacoma Road  
SW qtr Sec. 27, Twmsp 21N, Range 3E  
City Parcel - 2275200610

East Blair One Terminal  
2340 Alexander Avenue  
SE qtr Sec. 35, Twmsp 21N, Range 3E  
City Parcel - 0321354033

West Hylebos Pier One  
3401 Taylor Way  
SE qtr Sec. 36, Twmsp 21N, Range 3E  
City Parcel - 0321362046

North Intermodal Yard  
301 Port of Tacoma Road  
SW qtr Sec. 27, Twmsp 21N, Range 3E  
City Parcel - 2275200610

## Adjacent Properties

1410 THORNE ROAD LLC  
PO BOX 1456  
TACOMA, WA  
98401-1456

2212 HOLDINGS LLC  
2614 PACIFIC HWY E  
FIFE, WA  
98424-1001

AMJX LLP  
PO BOX 1355  
TACOMA, WA  
98401-1355

BOCKHOLD BERNARD J & ENOLA G  
1905 LINCOLN AVE  
TACOMA, WA  
98421-3206

CHRISTIANSEN TAGE & MARIT S  
3115 N 14TH ST  
TACOMA, WA  
98406-6413

CORLISS/BLOOMQUIST/HALLMAN/GILMORE  
643 NW LOFALL RD  
POULSBO, WA  
98370-9227

DYKMAN MARVIN & GLEE  
9223 169TH ST E  
PUYALLUP, WA  
98375-2293

FASTCO INC  
2306 E 11TH ST  
TACOMA, WA  
98421-3303

GARION LLC  
2221 ROSS WAY  
TACOMA, WA  
98421-3401

GLACIER NORTHWEST INC  
5975 E MARGINAL WAY S  
SEATTLE, WA  
98134-2414

GLEIN INVESTMENTS LLC  
3519 HARBORVIEW DR  
GIG HARBOR, WA  
98332-2183

LIANGA PACIFIC INC  
PO BOX 1355  
TACOMA, WA  
98401-1355

M & G HOLDINGS LLC  
2244 PORT OF TACOMA RD  
TACOMA, WA  
98421-3607

MARIANA PROPERTIES INC  
PO BOX 27570  
HOUSTON, TX  
77227-7570

OLSON LORRAINE A TTEE  
11107 25TH AVE E  
TACOMA, WA  
98445-5346

PABCO BUILDING PRODUCTS LLC  
PO BOX 419074  
RANCHO CORDOVA, CA  
95741-9074

PWE (MULTI) QRS 14-85 INC  
5200 W CENTURY BLVD FL 10  
LOS ANGELES, CA  
90045-5971

QUEST REAL ESTATE LLC  
PO BOX 4159  
ORANGE, CA  
92863-4159

RED WAREHOUSE LLC  
17719 PACIFIC AVE S PMB 146  
SPANAWAY, WA  
98387-8334

SB ENTERPRISES LLC  
PO BOX 1472  
TACOMA, WA  
98401-1472

SSA TACOMA INC  
1131 SW KCLICKITAT WAY  
SEATTLE, WA  
98134-1108

ST JOSEPH DEVELOPMENT CO INC  
1930 PORT OF TACOMA RD  
TACOMA, WA  
98421-3707

STRYDER LLC  
1201 PACIFIC AVE STE 1400  
TACOMA, WA  
98402-4322

TACOMA CITY LIGHT  
PO BOX 11007  
TACOMA, WA  
98411-0007

TACOMA LIME DIV OF CONT LIME INC  
3950 S 700 E STE 301  
SALT LAKE CTY, UT  
84107-1303

TACOMA RAIL  
PO BOX 11007  
TACOMA, WA  
98411-0007

THE WATTLES COMPANY  
35800 249TH AVE SE  
ENUMCLAW, WA  
98022-6851

THORNE ROAD PROPERTIES LLC  
4758 HYADA BLVD NE  
TACOMA, WA  
98422-1609

TIDEFLATS INVESTMENTS LLC  
PO BOX 64817  
UNIVERSITY PLACE, WA  
98464-0817

TRANSPORT VENTURES LLC  
PO BOX 1516  
TACOMA, WA  
98401-1516

TRANSPORT VENTURES LLC  
2235 ROSS WAY  
TACOMA, WA

98421-3401

TURNEY NEIL  
PO BOX 1456  
TACOMA, WA  
98401-1456

U S A  
PO BOX 3621  
PORTLAND, OR  
97208-3621

U S A IN TRUST FOR  
2002 E 28TH ST  
TACOMA, WA  
98404-4949

U S OIL & REFINING CO  
PO BOX 2255  
TACOMA, WA  
98401-2255

UNIFIED AIRCRAFT SVCS INC  
PO BOX 728  
RIALTO, CA  
92377-0728

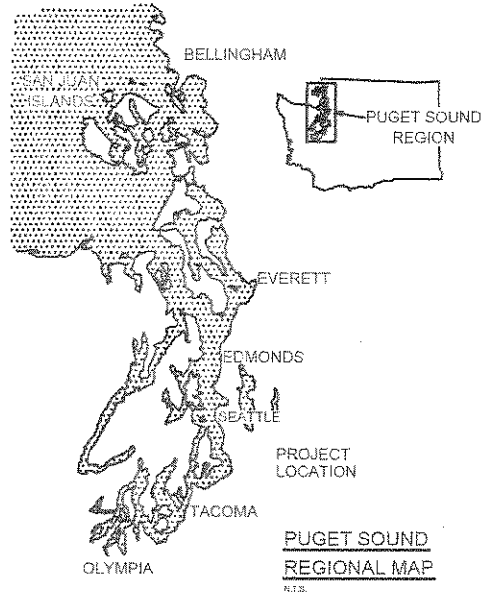
WHITE JOSEPH U & FOLEY JEAN M  
PO BOX 64  
MONTESANO, WA  
98563-0064

Z V CO INC  
PO BOX 64686  
UNIVERSITY PL, WA  
98464-0686

# 069268 PORTWIDE EMERGENCY WARNING SYSTEM (OGT-7)

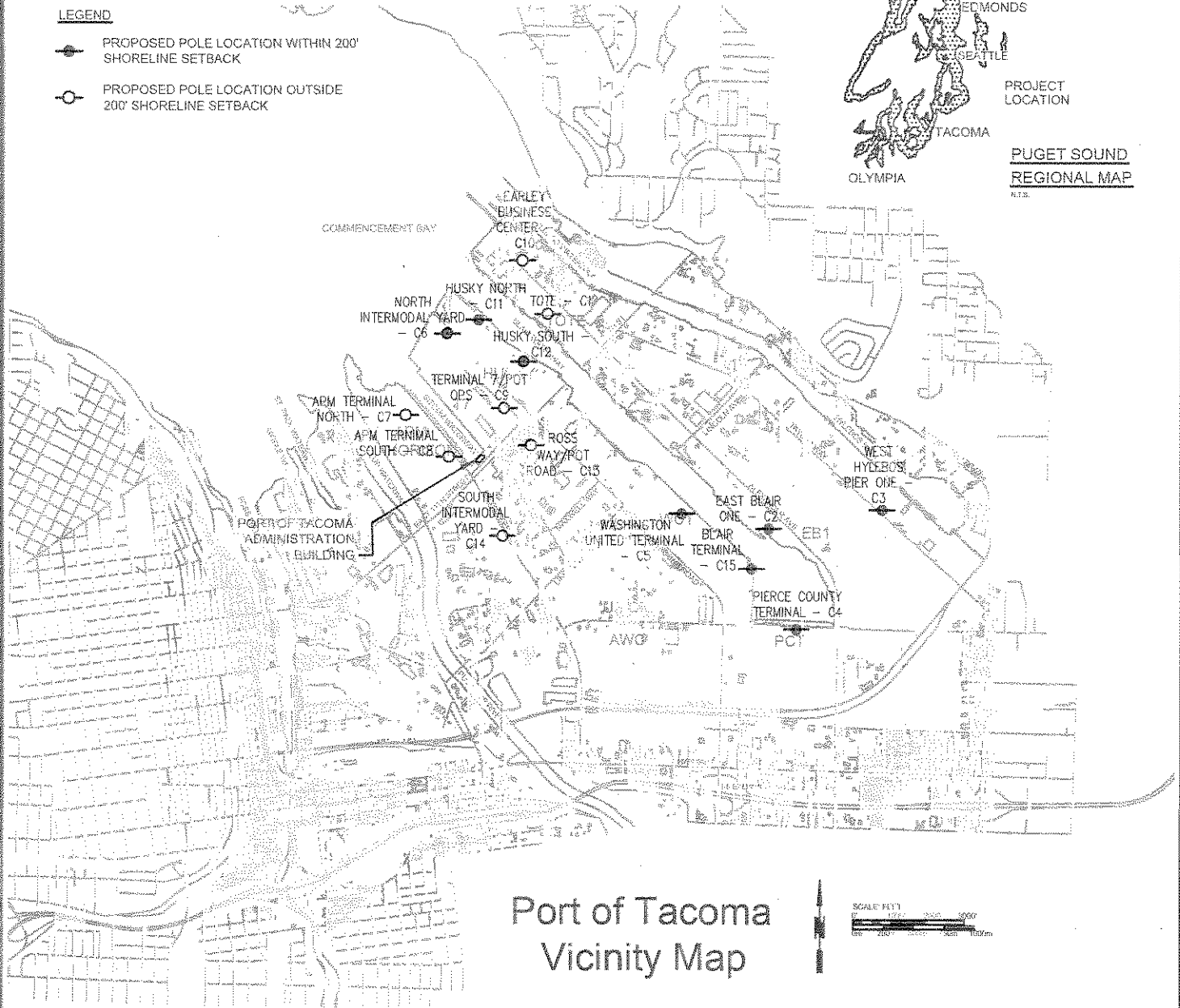
## DIRECTIONS TO THE PORT OF TACOMA ADMINISTRATION OFFICE

NORTHBOUND: EXIT 136B LOOPS UP & OVER FREEWAY ONTO PORT OF TACOMA ROAD  
 SOUTHBOUND: EXIT 136 AND TURN RIGHT AT END OF EXIT ONTO PORT OF TACOMA ROAD.  
 FOLLOW PORT OF TACOMA ROAD FOR APPROX. 3 MILES. AT EAST 11TH STREET TURN LEFT  
 AND CONTINUE APPROX. 1/2 MILE. EXIT EAST 11TH STREET TO THE RIGHT JUST BEFORE  
 THE BRIDGE. AT THE STOP SIGN MAKE A HAIR PIN TURN TO THE RIGHT.  
 THE ADMINISTRATION OFFICE BUILDING IS LOCATED TO THE LEFT AT THE HEAD OF SITCUM WATERWAY.  
 A TOTAL OF APPROXIMATELY 373 CUBIC YARDS OF SOIL WILL BE EXCAVATED.



### LEGEND

- PROPOSED POLE LOCATION WITHIN 200' SHORELINE SETBACK
- PROPOSED POLE LOCATION OUTSIDE 200' SHORELINE SETBACK



Port of Tacoma  
Vicinity Map

DATE OF PRINT: Apr 07, 2011 9:22:55am - BY: rebekah - FILE LOCATION: I:\108-1108014 Emergency Broadcast System\3\_13 Drawings\SLP-LocationKeyMap - G2.dwg



**PORT OF TACOMA**  
 P.O. BOX 1837 TACOMA, WA 98401  
 (253) 583-8641

### LOCATION KEY MAP

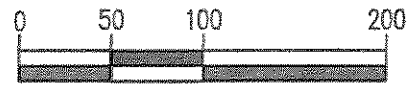
G2

STATE: WA  
 COUNTY: PIERCE  
 CITY/PORT: PORT OF TACOMA  
 LOCATION: AS SHOWN  
 PURPOSE: EMERGENCY WARNING SYSTEM (OGT-7)

PROJECT NO: 069268  
 SHEET: 1 OF 12 DATE: 04/07/11

# 069268 PORTWIDE EMERGENCY WARNING SYSTEM (OGT-7)

GRAPHIC SCALE



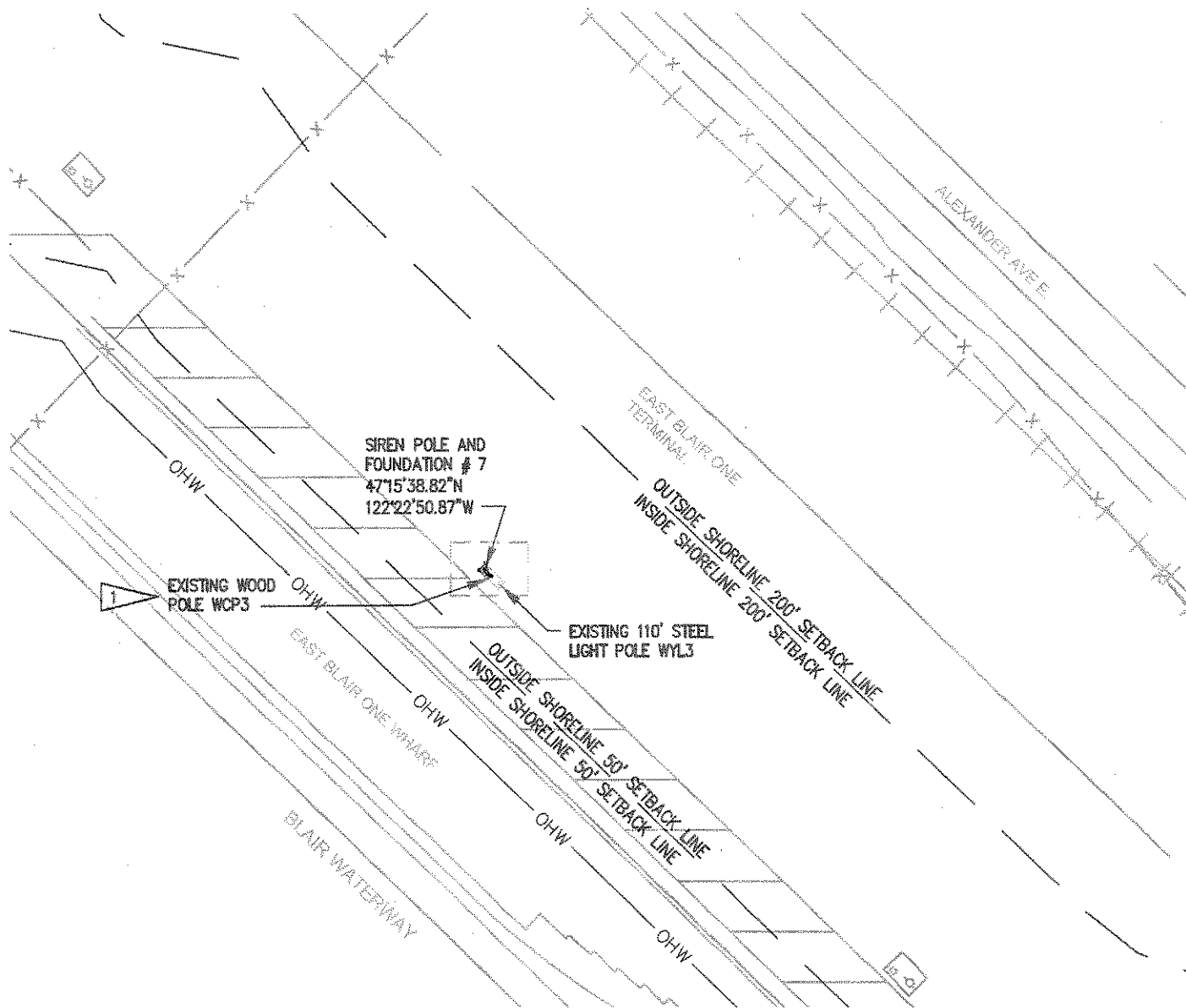
1 inch = 100 ft. HORZ

**SECTION, TOWNSHIP, AND RANGE**

QUARTER: SE  
SECTION: 35  
TOWNSHIP: 21N  
RANGE: 3E

**PORT PARCEL**

17



DATE OF PRINT: Apr 07, 2011 9:24:19am - BY: rebekaho - FILE LOCATION: C:\Users\REBEKA-1\KPI\AppData\Local\Temp\AcPublish\_7848\SLP\_Location 01-12.dwg



**PORT OF TACOMA**  
P.O. BOX 1837 TACOMA, WA 98401  
(253)363-5841

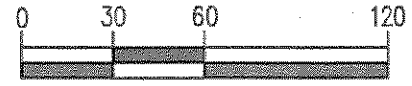
**EAST BLAIR ONE** C2

STATE: WA  
COUNTY: PIERCE  
CITY/PORT: PORT OF TACOMA  
LOCATION: EAST BLAIR ONE TERMINAL/BLAIR WATERWAY  
PURPOSE: EMERGENCY WARNING SYSTEM (OGT-7)  
PROJECT NO: 069268  
SHEET: 2 OF 12 DATE: 04/07/11

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# 069268 PORTWIDE EMERGENCY WARNING SYSTEM (OGT-7)

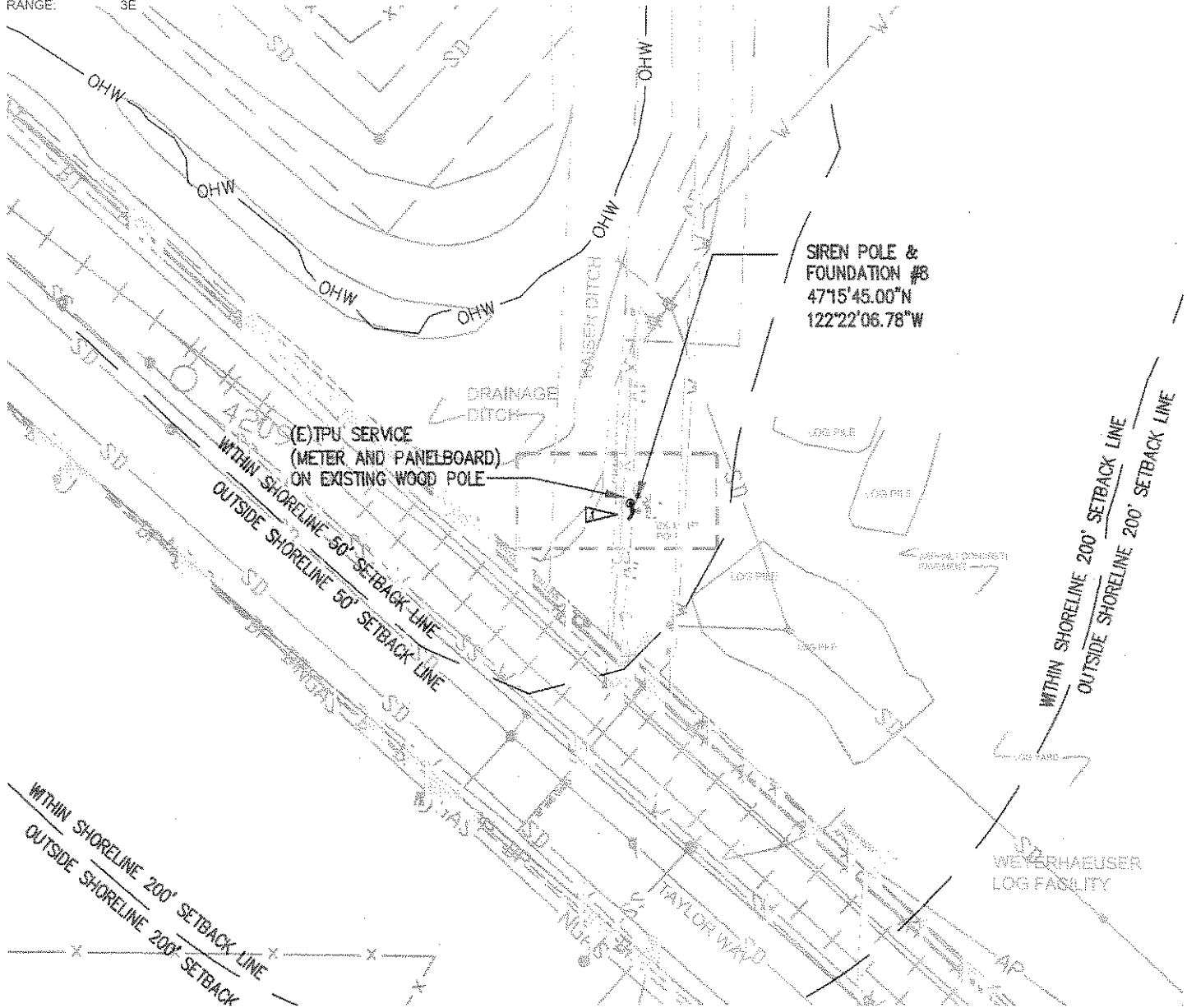
GRAPHIC SCALE



1 inch = 60 ft. HORZ

SECTION, TOWNSHIP, AND RANGE  
 QUARTER: SE of NW & NE of SW  
 SECTION: 01  
 TOWNSHIP: 20N  
 RANGE: 3E

PORT PARCEL  
 10



SIREN POLE &  
 FOUNDATION #8  
 47°15'45.00"N  
 122°22'08.78"W

(E)TPU SERVICE  
 (METER AND PANELBOARD)  
 ON EXISTING WOOD POLE

WEYERHAEUSER  
 LOG FACILITY

DATE OF PRINT: Apr 07, 2011 9:24:42am - BY: rebekah - FILE LOCATION: C:\Users\REBEKA-1\KPF\AppData\Local\Temp\AcPublish\_7846\SLP\_Location 01-12.dwg



PORT OF TACOMA  
 P.O. BOX 1837 TACOMA, WA 98401  
 (253)363-5841

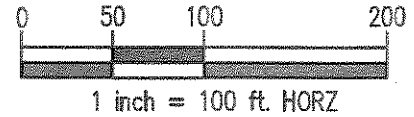
WEST HYLEBOS PIER ONE C3

STATE: WA  
 COUNTY: PIERCE  
 CITY/PORT: PORT OF TACOMA  
 LOCATION: WEYERHAEUSER LOG FACILITY/KAISER DITCH  
 PURPOSE: EMERGENCY WARNING SYSTEM (OGT-7)

PROJECT NO: 069268  
 SHEET: 3 OF 12 DATE: 04/07/11

# 069268 PORTWIDE EMERGENCY WARNING SYSTEM (OGT-7)

GRAPHIC SCALE

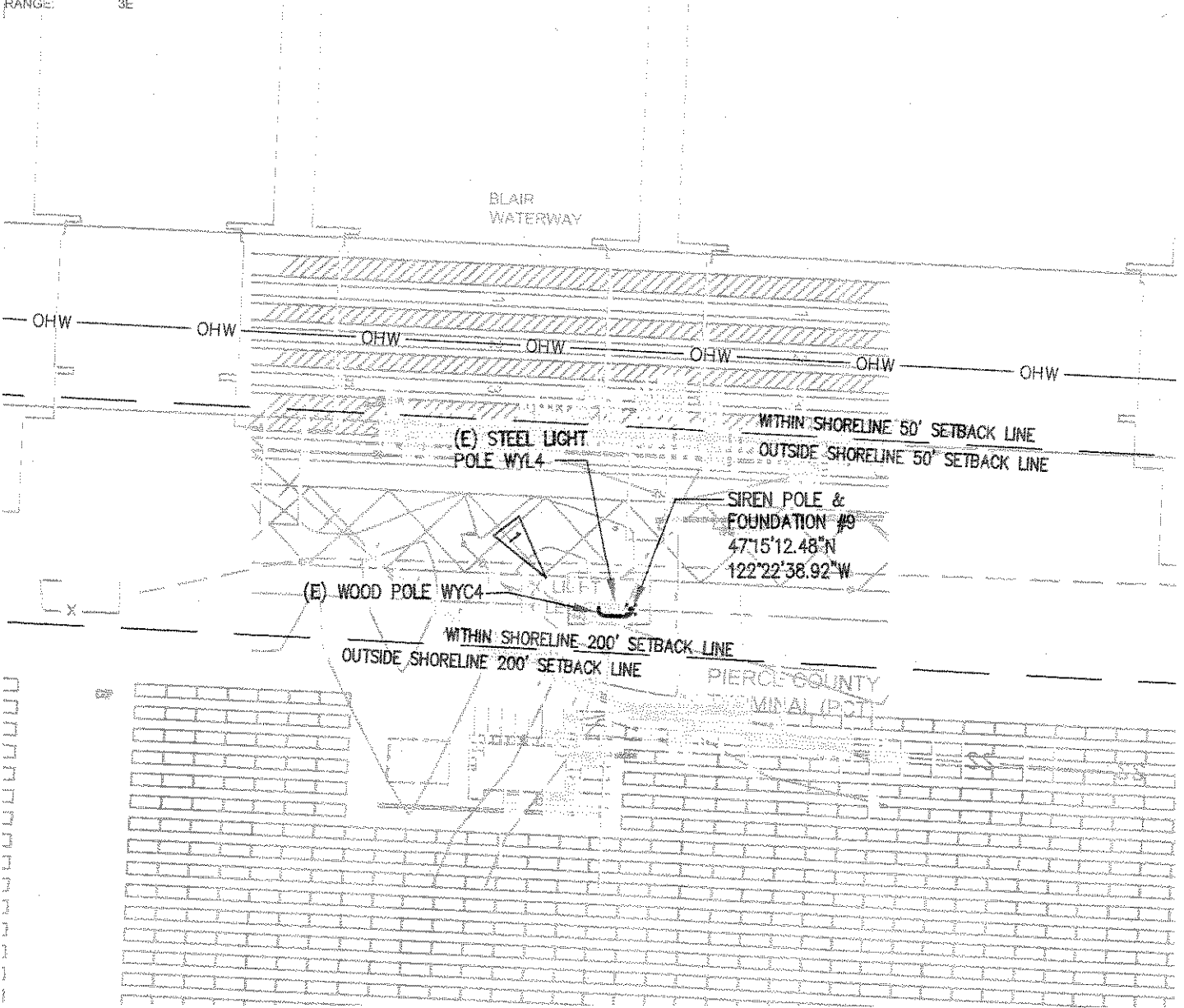


**SECTION, TOWNSHIP, AND RANGE**

QUARTER: NW  
SECTION: 01  
TOWNSHIP: 20N  
RANGE: 3E

**PORT PARCEL**

16 = PIERCE COUNTY TERMINAL



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**PORT OF TACOMA**  
P.O. BOX 1837 TACOMA, WA 98401  
(253)385-5841

**PIERCE COUNTY TERMINAL C4**

STATE: WA  
COUNTY: PIERCE  
CITY/PORT: PORT OF TACOMA  
LOCATION: PIERCE COUNTY TERMINAL (PCT)/BLAIR WATERWAY  
PURPOSE: EMERGENCY WARNING SYSTEM (OGT-7)

PROJECT NO: 069268  
SHEET: 4 OF 12 DATE: 04/07/11

# 069268 PORTWIDE EMERGENCY WARNING SYSTEM (OGT-7)

GRAPHIC SCALE



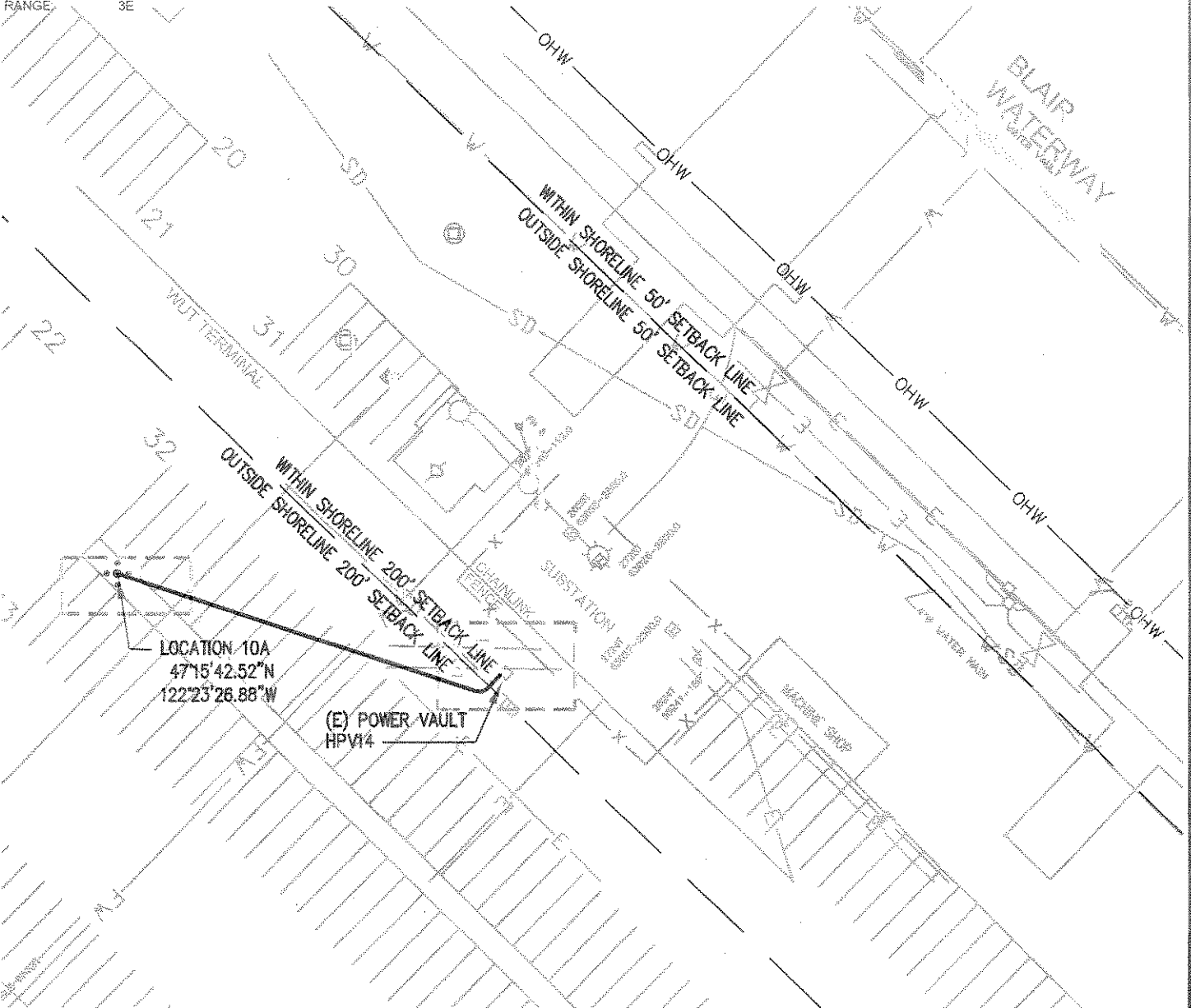
1 inch = 60 ft. HORZ

**SECTION, TOWNSHIP, AND RANGE**

QUARTER: SW  
SECTION: 35  
TOWNSHIP: 21N  
RANGE: 3E

**PORT PARCEL**

24 = BLAIR TERMINAL  
25 = WUT TERMINAL



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**PORT OF TACOMA**  
P.O. BOX 1837 TACOMA, WA 98401  
(253)383-5841

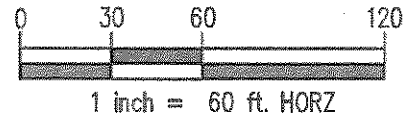
**WASHINGTON UNITED TERMINAL C5**

STATE: WA  
COUNTY: PIERCE  
CITY/PORT: PORT OF TACOMA  
LOCATION: WUT TERMINAL/BLAIR WATERWAY  
PURPOSE: EMERGENCY WARNING SYSTEM (OGT-7)  
PROJECT NO: 069268  
SHEET: 5 OF 12  
DATE: 04/07/11



# 069268 PORTWIDE EMERGENCY WARNING SYSTEM (OGT-7)

GRAPHIC SCALE

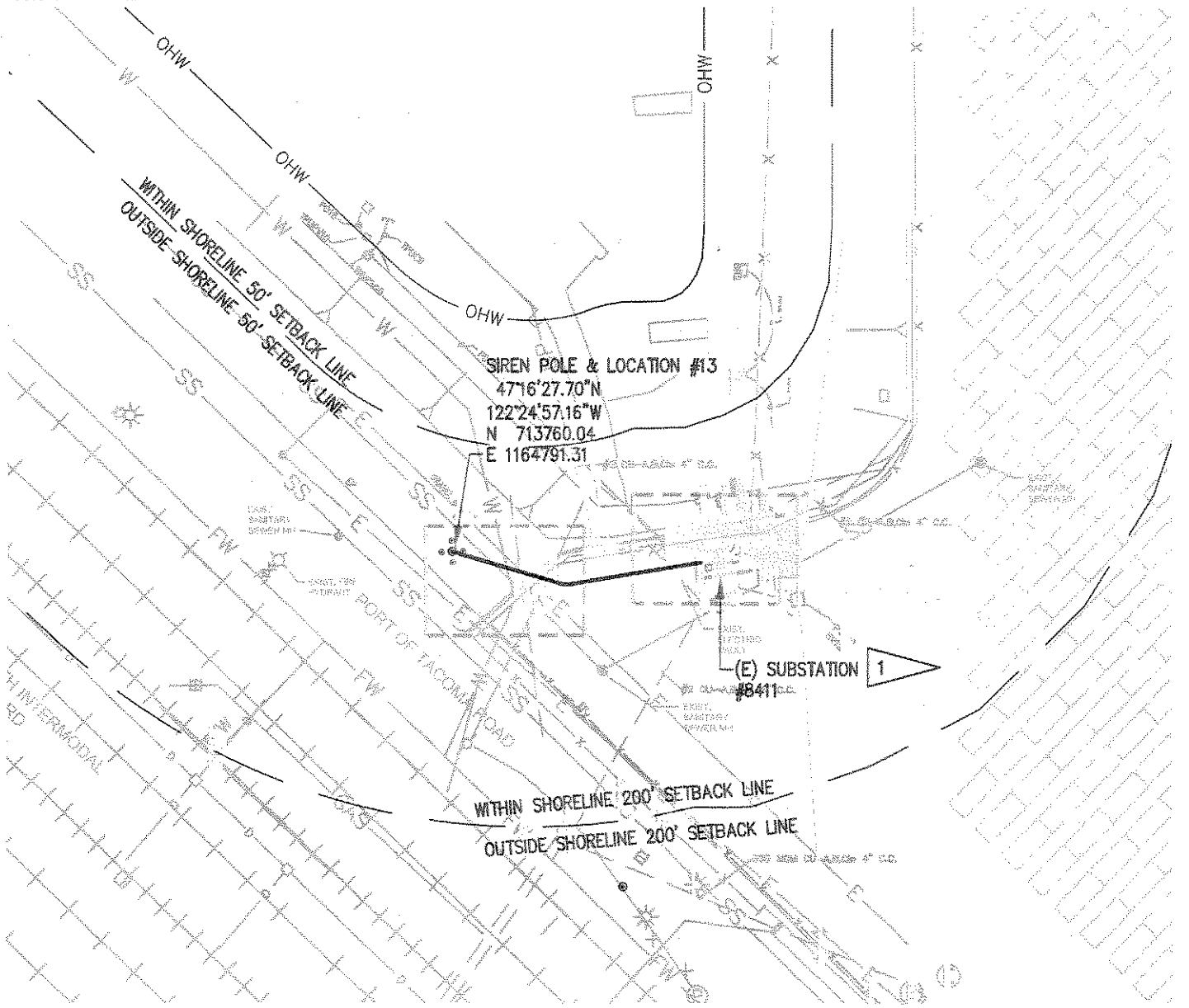


**SECTION, TOWNSHIP, AND RANGE**

QUARTER: SW  
SECTION: 27  
TOWNSHIP: 21N  
RANGE: 3E

**PORT PARCEL**

27 = HUSKY TERMINAL



DATE OF PRINT: Apr 07, 2011 9:25:54am - BY: rabeleho - FILE LOCATION: I:\108-1108014 Emergency Broadcast System\3.13 Drawing\SLP\_Location 13-23.dwg



**PORT OF TACOMA**  
P.O. BOX 1837 TACOMA, WA 98401  
(253)368-5841

**NORTH INTERMODAL YARD C6**

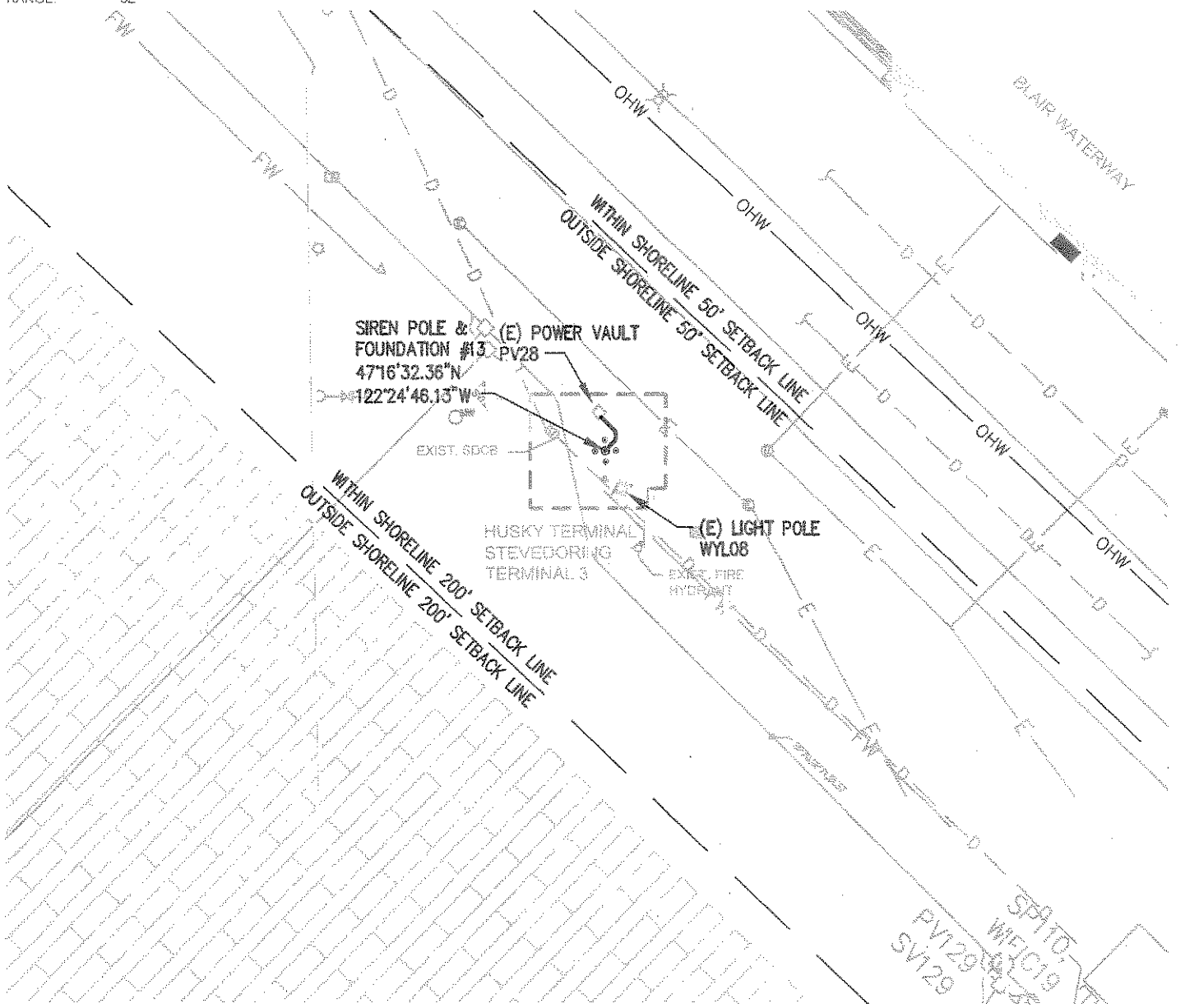
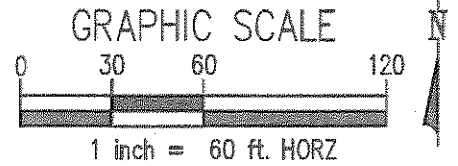
STATE: WA  
COUNTY: PIERCE  
CITY/PORT: PORT OF TACOMA  
LOCATION: NORTH INTERMODAL YARD  
PURPOSE: EMERGENCY WARNING SYSTEM (OGT-7)

PROJECT NO: 069268  
SHEET: 8 OF: 12 DATE: 04/07/11

# 069268 PORTWIDE EMERGENCY WARNING SYSTEM (OGT-7)

SECTION, TOWNSHIP, AND RANGE SW  
 QUARTER: SW  
 SECTION: 27  
 TOWNSHIP: 21N  
 RANGE: 3E

PORT PARCEL  
 27 = HUSKY TERMINAL



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**PORT OF TACOMA**  
 P.O. BOX 1837 TACOMA, WA 98401  
 (253)363-5841

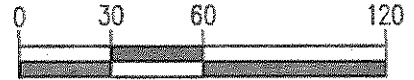
**HUSKY NORTH** C11

STATE: WA  
 COUNTY: PIERCE  
 CITY/PORT: PORT OF TACOMA  
 LOCATION: HUSKY TERMINAL & STEVEDORING TERMINAL 3  
 PURPOSE: EMERGENCY WARNING SYSTEM (OGT-7)  
 PROJECT NO: 069268  
 SHEET: 7 OF 12 DATE: 04/07/11

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# 069268 PORTWIDE EMERGENCY WARNING SYSTEM (OGT-7)

GRAPHIC SCALE



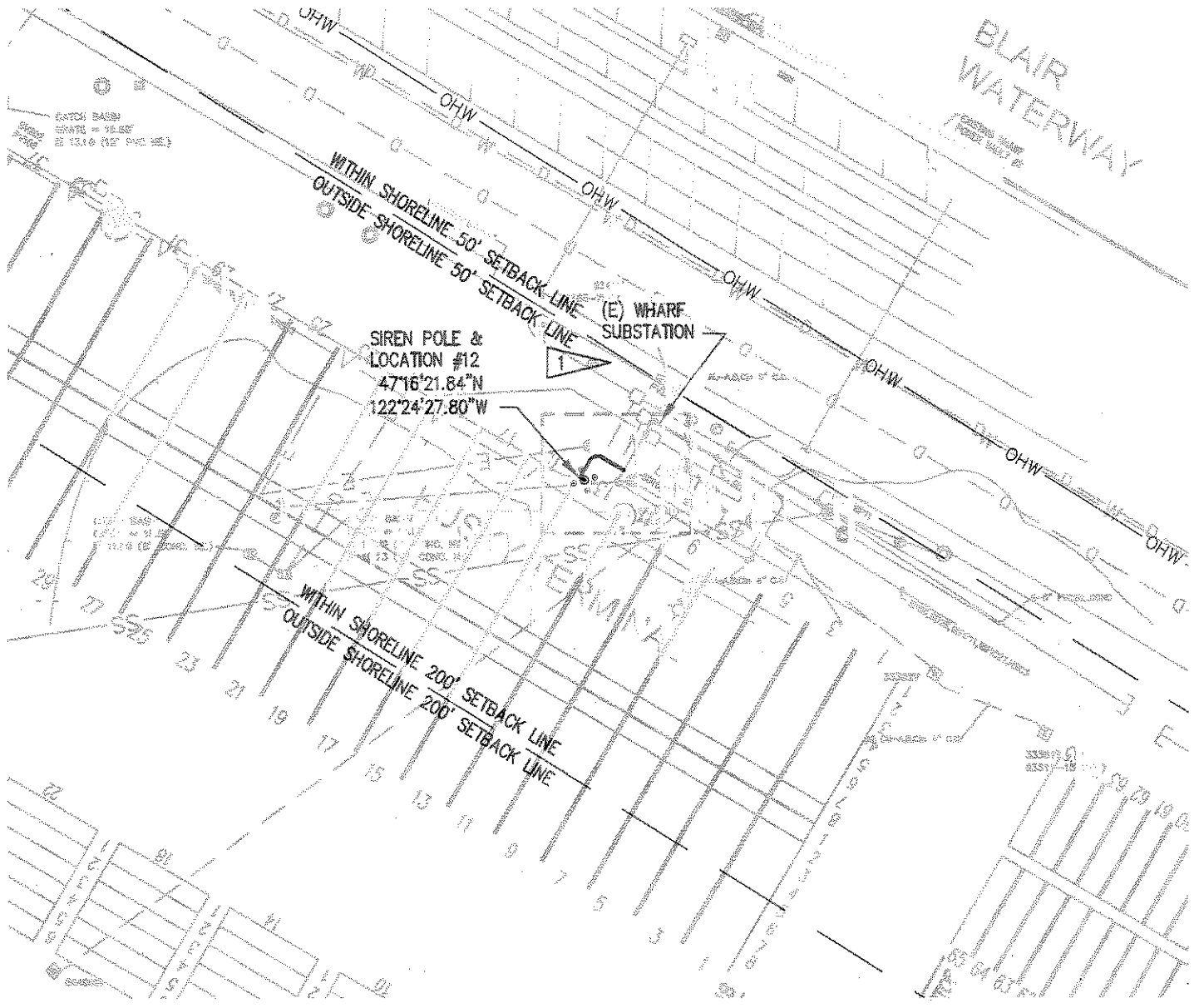
1 inch = 60 ft. HORZ

**SECTION, TOWNSHIP, AND RANGE**

QUARTER: SW  
SECTION: 27  
TOWNSHIP: 21N  
RANGE: 3E

**PORT PARCEL**

27 = HUSKY TERMINAL



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**PORT OF TACOMA**  
P.O. BOX 1837 TACOMA, WA 98401  
(253)383-8841

**HUSKY SOUTH**

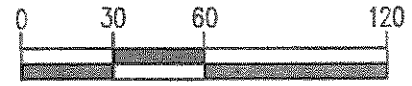
**C12**

STATE: WA  
COUNTY: PIERCE  
CITY/PORT: PORT OF TACOMA  
LOCATION: HUSKY TERMINAL/BLAIR WATERWAY  
PURPOSE: EMERGENCY WARNING SYSTEM (OGT-7)

PROJECT NO: 069268  
SHEET: 6 OF 12 DATE: 04/07/11

# 098018 PORTWIDE EMERGENCY WARNING SYSTEM (OGT-7)

GRAPHIC SCALE



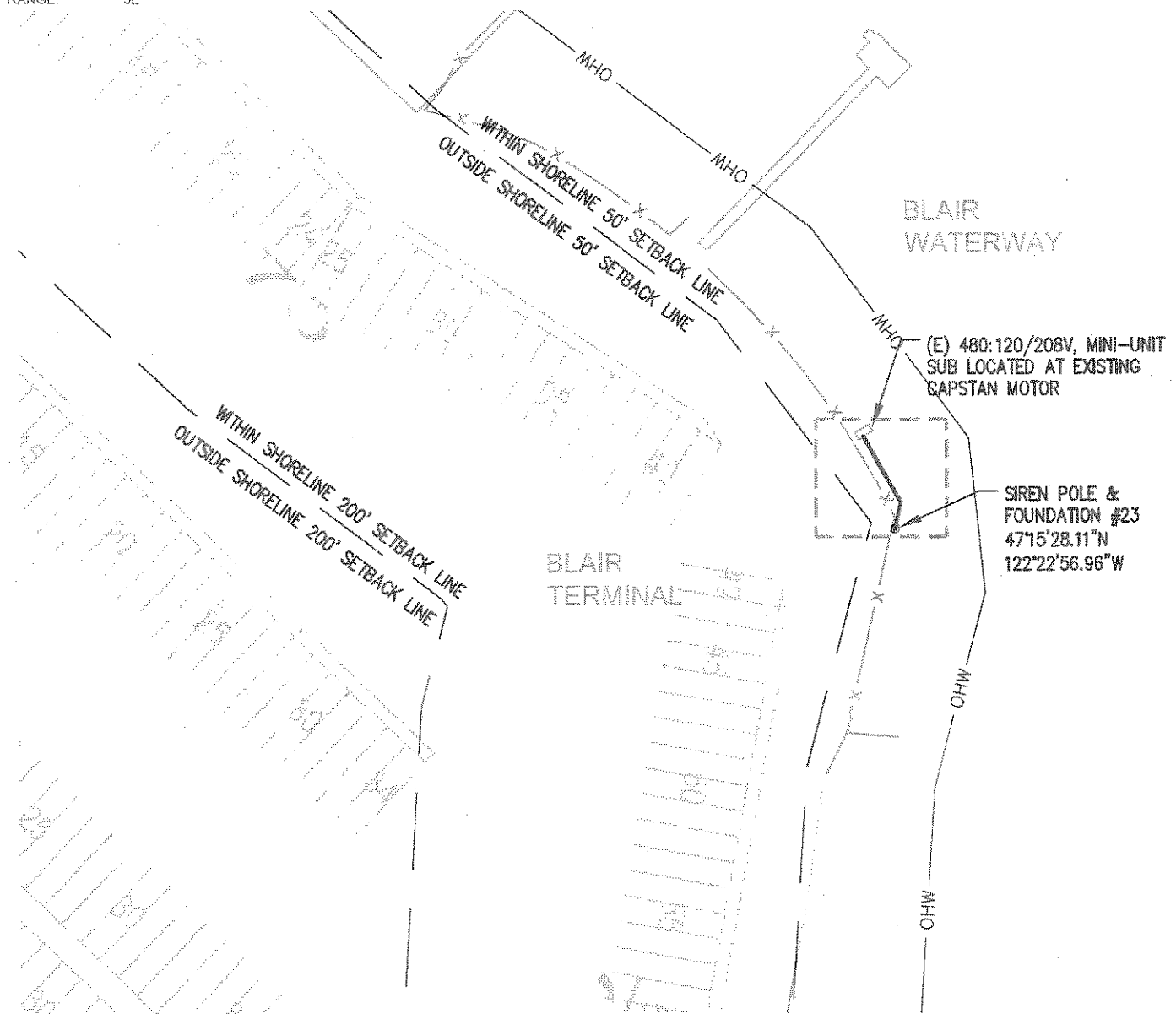
1 inch = 60 ft. HORZ

SECTION, TOWNSHIP, AND RANGE

QUARTER: SE  
SECTION: 35  
TOWNSHIP: 21N  
RANGE: 3E

PORT PARCEL

24 = BLAIR TERMINAL



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**PORT OF TACOMA**  
P.O. BOX 1837 TACOMA, WA 98401  
(253)365-5641

**BLAIR TERMINAL** C15

STATE: WA  
COUNTY: PIERCE  
CITY/PORT: PORT OF TACOMA  
LOCATION: BLAIR TERMINAL/BLAIR WATERWAY  
PURPOSE: EMERGENCY WARNING SYSTEM (OGT-7)  
PROJECT NO: 060268  
SHEET: 9 OF: 13 DATE: 04/07/11

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# 069268 PORTWIDE EMERGENCY WARNING SYSTEM (OGT-7)

## NOTES:

### GENERAL

1. FOR POLE AND ELECTRICAL COMPONENTS SEE ELECTRICAL DRAWINGS.
2. FOR WELD DETAIL AT SPIRAL ENDS SEE 2/\_\_\_
3. MINIMUM COMPRESSIVE CONCRETE STRENGTH AT 28 DAYS = 4,000 PSI.

### IBC 2009 - EARTHQUAKE DESIGN DATA

1. BASIC SEISMIC FORCE RESISTING SYSTEM (NONBUILDING STRUCTURE)  
TELECOMMUNICATION TOWER STEEL POLE
2. DESIGN BASE SHEAR (V):  $V_x = V_y = 1.9$  KIP
3. SEISMIC RESPONSE COEFFICIENT  $C_{sx} = C_{sy} = 0.547$
4. RESPONSE MODIFICATION FACTORS:

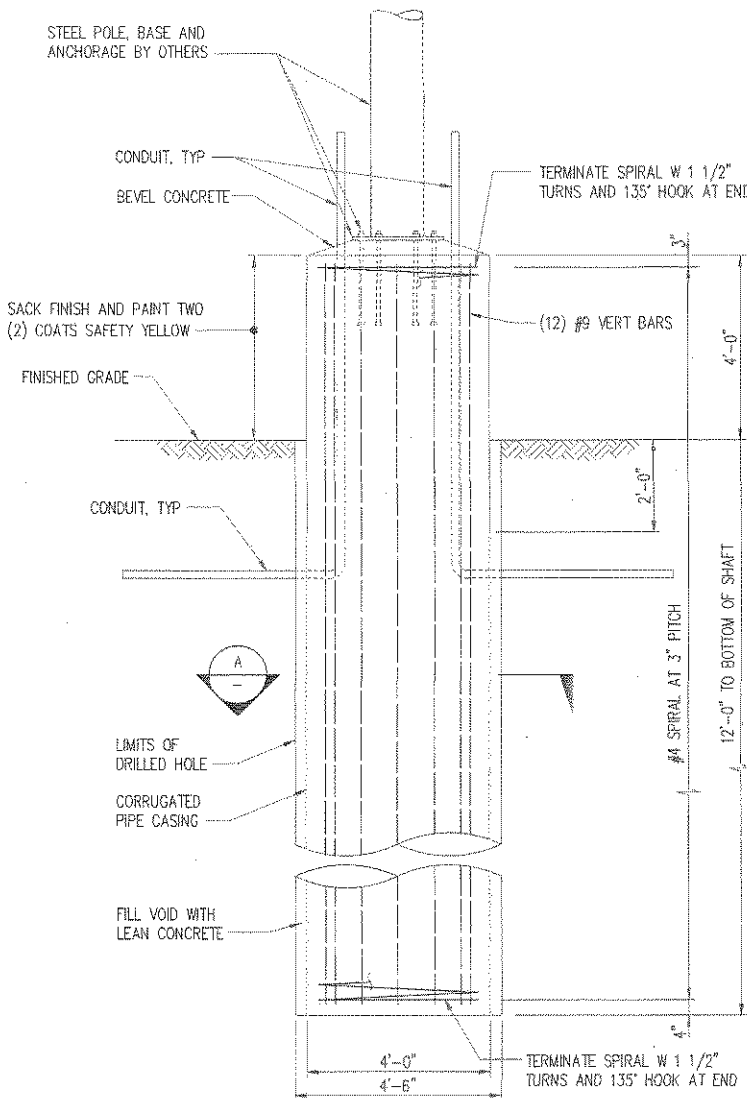
$$R = 1.5 \text{ (ASCE 7 TABLE 15.4-2)}$$

$$\rho = 1.0 \text{ REDUNDANCY FACTOR (ASCE 7 12.3.4.1)}$$

5. ANALYSIS PROCEDURE USED:  
EQUIVALENT LATERAL LOAD PROCEDURE

### IBC 2009 - WIND DESIGN DATA SEE NOTES BELOW:

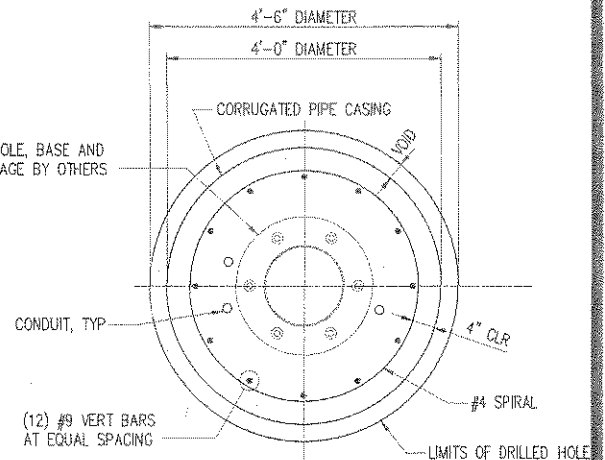
1. DESIGN WIND PRESSURE  $p = 0.00256 \times K_z \times K_{zt} \times K_d \times V^2 \times I$  (PSF) (ASCE 7 Eq. 6-15)  
 $= 20$  psf
2. REACTIONS DUE TO WIND LOAD AT THE BASE OF THE POLE BASED ON A DESIGN WIND SPEED OF 85 MPH.  $R_w = 3.8k$



**ELEVATION - SIREN POLE FOUNDATION**

SCALE: 1"=4'-0"

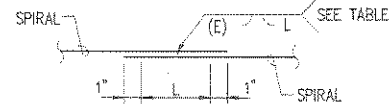
1



**SECTION**

SCALE: 1"=3'-0"

A



SPIRAL REINFORCEMENT WELD TABLE		
SPIRAL WIRE OR BAR SIZE	WELD THROAT (E) (INCHES)	WELD LENGTH "L" (INCHES)
#4	5/32"	5"

**WELD DETAIL**

SCALE: NONE

2

DATE OF PRINT: Apr 07, 2011 9:21:07am - BY: rebeakho - FILE LOCATION: C:\Users\REBEKA-1\KPP\AppData\Local\Temp\AcPublish\_7848\SLP\_Details.dwg



**PORT OF TACOMA**  
P.O. BOX 1837 TACOMA, WA 98401  
(253)383-5841

## DETAILS

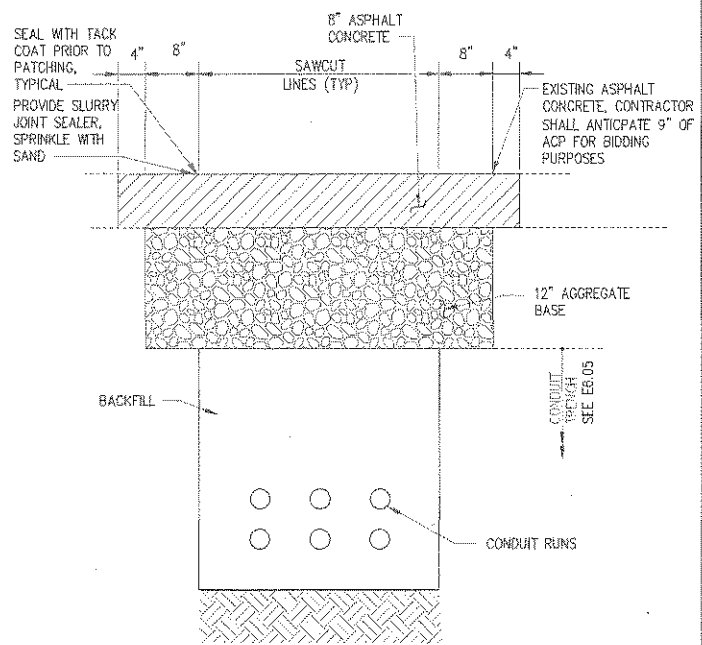
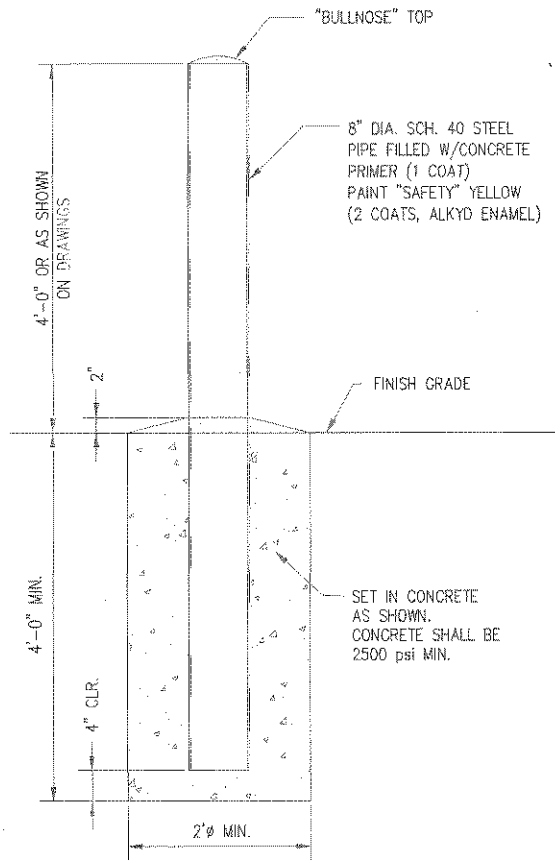
D1

STATE: WA  
COUNTY: PIERCE  
CITY/PORT: PORT OF TACOMA  
LOCATION: ALL LOCATIONS  
PURPOSE: EMERGENCY WARNING SYSTEM (OGT-7)

PROJECT NO: 069268  
SHEET: 10 OF: 12

DATE: 04/07/11

# 069268 PORTWIDE EMERGENCY WARNING SYSTEM (OGT-7)



**BOLLARD PROTECTION DETAIL**  
SCALE: 1" = 2'-0"



**CONDUIT TRENCH/PAVEMENT REPAIR DETAIL**  
SCALE: NTS



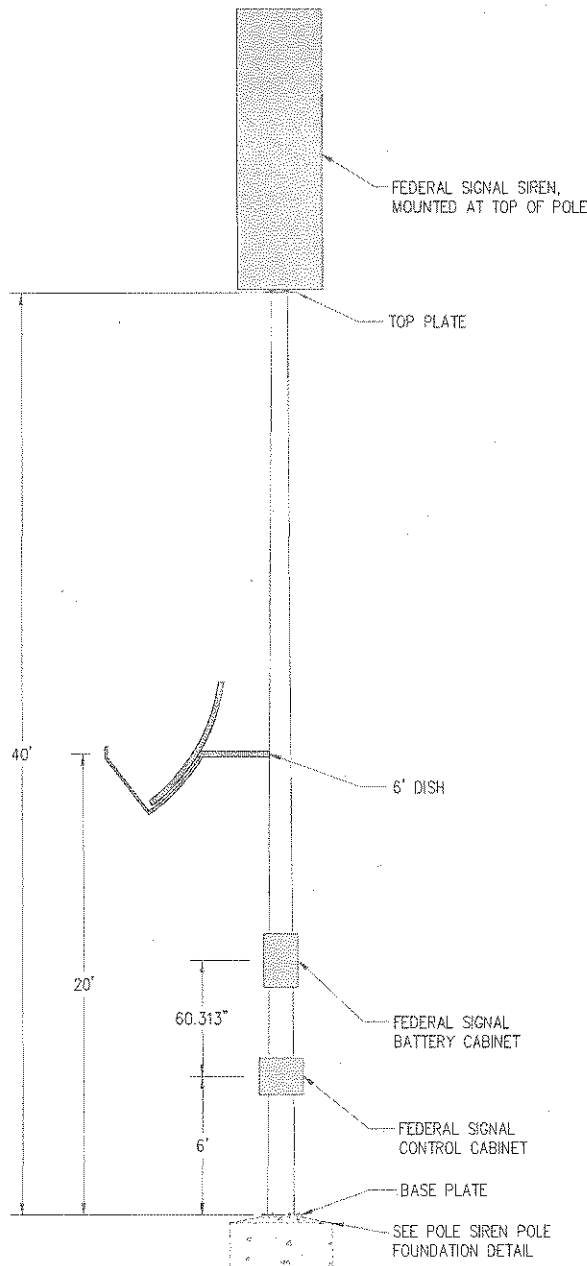
DATE OF PRINT: Apr 07, 2011 9:21:08am - BY: rebekaho - FILE LOCATION: C:\Users\REBEKA-1\KPF\AppData\Local\Temp\AcPublish\_7848\SLP\_Details.dwg



**PORT OF TACOMA**  
P.O. BOX 1837 TACOMA, WA 98401  
(253)885-6841

DETAILS		D2
STATE:	WA	
COUNTY:	PIERCE	
CITY/PORT:	PORT OF TACOMA	
LOCATION:	ALL LOCATIONS	
PURPOSE:	EMERGENCY WARNING SYSTEM (OGT-7)	
PROJECT NO.:	069268	
SHEET: 11	OF: 12	DATE: 04/07/11

# 069268 PORTWIDE EMERGENCY WARNING SYSTEM (OGT-7)



## SIREN POLE EQUIPMENT DETAIL

SCALE: NTS

1  
-

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**PORT OF TACOMA**  
P.O. BOX 1837 TACOMA, WA 98401  
(253) 883-5841

### DETAILS

D3

STATE: WA  
COUNTY: PIERCE  
CITY/PORT: PORT OF TACOMA  
LOCATION: ALL LOCATIONS  
PURPOSE: EMERGENCY WARNING SYSTEM (OGT-7)

PROJECT NO: 069268

SHEET: 12 OF: 12

DATE: 04/07/11



## **Port-wide Emergency Warning System Project Unanticipated Discovery Plan for Cultural Resources / Tribal Artifacts / Remains**

### **Briefing**

Prior to construction, the Engineer or Environmental Program Manager (Program Manager) will brief construction supervisor(s) on cultural resource issues. The primary goal of the briefing will be to familiarize key construction personnel with the procedures and contact protocol to be followed in the event that archaeological resources are discovered during construction.

### **Chain of Communication**

The Port of Tacoma Program Manager will insure that the provisions of this document are carried out. The Engineer, Program Manager, and Inspector have the authority to temporarily halt excavation while examining possible discoveries, and will also be responsible for notifying the Engineer, Construction Superintendent, and appropriate authorities immediately of any discoveries. If the discovery is determined to be significant, i.e. potentially eligible to the NRHP, it will be the responsibility of the Program Manager to notify the consulting parties including the Department of Archaeology and Historic Preservation (DAHP), Puyallup Tribe of Indians, City of Tacoma Historic Preservation Officer and if necessary, the Pierce County Medical Examiner (ME).

### **Discovery of Cultural Resources**

Work may be stopped to assess potentially significant cultural resources. Time will be provided for additional evaluation by field archaeologists if it is deemed necessary to call them in, and the following protocol shall be followed:

- If significant, or potentially significant, archaeological resources are identified during construction; the Construction Supervisor will inform the Engineer. The Engineer or Inspector will halt activity in the area of discovery large enough to ensure the integrity of the find is not compromised (though construction activities may continue elsewhere in the project area). The Inspector will contact the Program Manager.
- The Program Manager will contact the DAHP, Puyallup Tribe of Indians and the City of Tacoma Historic Preservation Officer within one (1) working day.
- The Program Manager shall arrange for the parties to conduct a joint viewing of the discovery within forty-eight (48) hours of the notification, or, if that is not feasible, at the earliest time thereafter.
- If the archaeological materials cannot be protected in place, the Port of Tacoma shall consult with the DAHP, Puyallup Tribe of Indians and the Tacoma Historic Preservation Officer if the remains are Native American, on a data recovery plan. Resumption of work in the area of the discovery will be consistent with the results of the consultation.

### **Discovery of Human Remains**

Native American burial grounds and historic graves are protected by several State laws including RCW 27.44.030 and RCW 27.44.040. If any construction exposes anything that appears to be human remains, either burials or isolated teeth or bones, or other mortuary items, construction in the vicinity of the find



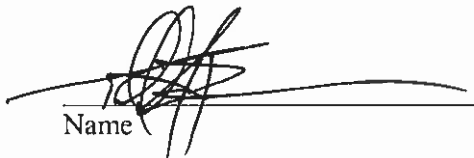
will halt immediately in an area sufficient to maintain integrity of the deposit and to allow the Program Manager to conduct preliminary analysis to determine if the remains are potentially human. Suspected human remains will *not* be handled by anyone other than representatives of the Puyallup Tribe, archaeologist, County Medical Examiner (ME), or State Physical Anthropologist. Suspected human remains and mortuary items will be treated with dignity and respect at all times. With the exception of archaeological documentation, photographing the remains is strictly prohibited. After preliminary identification, the following protocol shall be followed:

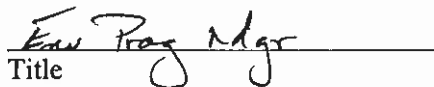
- All persons shall immediately halt ground-disturbing activities around the discovery and it shall be secured with a perimeter of not less than thirty (30) feet (Area of Discovery).
- The remains shall be covered and the Port of Tacoma will provide 24 hour security over the site.
- The Inspector or the Construction Superintendent will notify the Program Manager immediately upon discovery.
- Upon receiving notice, the Program Manager shall immediately notify the City of Tacoma Police Department and the Pierce County ME and request that the ME determine if the remains are forensic or non-forensic. Contemporaneous with notifying local law enforcement and the Coroner, the Program Manager shall also notify the Puyallup Tribe of Indians, DAHP and the Tacoma Historic Preservation Officer of the discovery.
- If the ME determines the remains are non-forensic, the DAHP will take jurisdiction over the remains.
- The State Physical Anthropologist will make a determination if the remains are Indian or non-Indian and report that finding to the affected parties. The DAHP will handle all consultation with the affected parties as to the future preservation, excavation, and disposition of the remains.

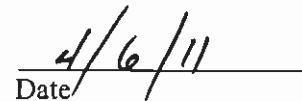
#### CONFIDENTIALITY

All parties recognize that archaeological properties are of a sensitive nature, and sites where cultural resources are discovered can become targets of vandalism and illegal removal activities. All parties shall keep and maintain as confidential all information regarding any discovered cultural resources, particularly the location of known or suspected archaeological property, and exempt all such information from public disclosure consistent with RCW42.56.300. All information indicating the location of known suspected archaeological properties from this project shall be turned over to DAHP. While any party is in possession of this confidential information, such party shall limit access to these records to authorized persons with a need to know the information. All parties shall ensure that its personnel and contractors keep the discovery of any found or suspected human remains, other cultural items, and potential historic properties confidential, including but not limited to, refraining such persons from contacting the media or any third party or otherwise sharing information regarding the discovery with any member of the public. All parties shall require its personnel and contractors, to immediately notify the Port of Tacoma of any inquiry from the media or public.

I have read this unanticipated discoveries plan, understand it, and will comply with its contents.

  
Name

  
Title

  
Date



## DETERMINATION OF NONSIGNIFICANCE RCW 197-11-970

**Description of proposal:** The Port of Tacoma (Port) proposes installing an emergency warning system that will permit continuous, reliable, secure, and efficient communications of hazards throughout the port area. The area of the project encompasses the Port Operated Terminal 7 (T7), Washington United Terminals (WUT), Blair Terminal (Blair), Pierce County Terminal (PCT), Husky Terminal (Husky), East Blair One Terminal (EB1), TOTE Terminal (TOTE), APM Terminals (APMT), West Hylebos Pier One facility (WHP1), Earley Business Center (EBC), Pacific Rail Services Yard (PRS), the Ross Way old bank site (Ross Way) and the Marshall Avenue Auto Facility. The project will involve installing: 2 steel poles with concrete base, 8 bollards and approximately 540 linear feet of conduit at T7; 1 steel pole with concrete base, 4 bollards and approximately 230 linear feet of conduit at WUT; 1 steel pole with concrete base, 2 bollards and approximately 40 linear feet of conduit at Blair; 1 steel pole with concrete base, 4 bollards and approximately 30 linear feet of conduit at PCT; 2 steel poles with concrete bases, 8 bollards and approximately 43 linear feet of conduit at Husky; 1 steel pole with concrete base, 2 bollards and approximately 10 linear feet of conduit at EB1; 1 steel pole with concrete base, 4 bollards and approximately 170 linear feet of conduit at TOTE; 2 steel poles with concrete bases, 6 bollards and approximately 25 linear feet of conduit at APMT; 1 steel pole with concrete base, 2 bollards and approximately 10 linear feet of conduit at WHP1; 1 steel pole with concrete base, 4 bollards and approximately 250 linear feet of conduit at EBC; 1 steel pole with concrete base, 4 bollards and approximately 30 linear feet of conduit at PRS; 1 steel pole with concrete base, 2 bollards and approximately 130 linear feet of conduit at Ross Way and 1 steel pole with concrete base, 2 bollards and approximately 85 linear feet of conduit at Marshall Avenue Auto Facility. Each steel pole installation will require augering a 54-inch diameter hole approximately 12 feet deep, for a total excavation of approximately 106 cubic yards for all pole installations. Standard trenches will measure approximately 30 inches wide by 30 inches deep, resulting in the excavating of approximately 488 cubic yards of soil for trenches. Bollard installation will require excavation of approximately 83 cubic yards. This results in a total of approximately 677 cubic yards of soil excavation. Replacement of excavated trench soils will be with approximately 238 cubic yards of controlled density fill (CDF), while replacement of base course and pavement will require placement of 136 and 114 cubic yards, respectively. Total fill will be approximately 488 cubic yards. Additionally, new electrical power wires will be pulled through multiple existing conduits, requiring no ground disturbance. Warning system equipment, including speaker arrays, strobes and control cabinets will be installed on each pole along with new signs on each pole. A new antenna with a system controller will be installed at the Port's Security Bldg.

The work that will take place within 200 feet of the shoreline includes the installation of 8 poles and approximately 630 feet of new buried electrical power lines.

**Proponent:** Port of Tacoma

**Location of proposal, including street address, if any:** This Project is located over several parcels within the Port of Tacoma industrial area east of Milwaukee Way and north of State Hwy 509 in Tacoma, WA. The site address for each terminal is as follows: Port Operated Terminal 7 (2207 E. 11<sup>th</sup> St) in the NW quarter of Section 34, Township 21N, Range 3E; Washington United Terminals (1815 Port of Tacoma Road) in the SW quarter of Section 35, Township 21N, Range 3E; Blair Terminal (2901 Port of Tacoma Road) in the SE quarter of Section 35, Township 21N, Range 3E; Pierce County Terminal (901 Port of Tacoma Road) in the NW quarter of Section 1, Township 20N, Range 3E; Husky Terminal (710 Port of Tacoma Road) in the SW quarter of Section 27, Township 21N, Range 3E; East Blair One Terminal (2340 Alexander Avenue) in the SE quarter of Section 35, Township 21N, Range 3E; TOTE Terminal (500 Alexander Ave) in the SE quarter of Section 27, Township 21N, Range 3E; APM Terminals (1675 Lincoln Avenue) in the NW and SW quarters of Section 34, Township 21N, Range 3E, the West Hylebos Pier One (3401 Taylor Way) in the SE quarter of Section 36, Township 21N, Range 3E; Earley Business Center (401 Alexander Avenue) in the SE quarter of Section 26, Township 21N, Range 3E; the Pacific Rail Services Yard (1110 Milwaukee Way) in the SW quarter of Section 34, Township 21N, Range 3E; the Ross Way old bank site (2479 Ross Way) in the NE quarter of Section 34, Township 21N, Range 3E; and the Marshall Avenue Auto Facility (3003 Marshall Ave) in the NW quarter of Section 2, Township 20N, Range 3E, all of which are in the City of Tacoma, County of Pierce, State of Washington, W.M.

**Lead agency:** Port of Tacoma

The lead agency for this proposal has determined that it does not have a probable significant adverse impact on the environment. An environmental impact statement (EIS) is not required under RCW 43.21C.030(2)(c). This decision was made after review of a completed environmental checklist and other information on file with the lead agency. Additional project and/or SEPA information is available upon request at the Port of Tacoma's Administrative building, located at One Sitcum Plaza, Tacoma, WA 98421 or at the Port's website at <http://www.portoftacoma.com/sepa>.

**Comments and Request for Reconsideration:** This DNS is issued under 197-11-340(2). Pursuant to Port policy all interested parties shall have 14 calendars days to comment on the proposed SEPA threshold determination. Only those who commented within the 14 day comment period shall have standing to file a Request for Reconsideration. Any challenge to a SEPA threshold determination shall be initiated by filing a Request for Reconsideration with the Responsible Official or designee no later than seven calendar days following the end of the 14 day comment period for the SEPA determination. The lead agency will not act on this proposal for 14 days from the start date of the comment period described below. Comments shall be submitted to the Port of Tacoma, Environmental Programs, C/O Matoya Darby at One Sitcum Plaza, Tacoma, WA 98421 or at the Port's website at <http://www.portoftacoma.com/sepa>.

**Responsible official:** Sue Mauermann

**Position/title:** Senior Director, Facilities Development

**Signature:**  **Date:** 3/8/2011

**Comment Start Date:** March 10, 2011

**Comment End Date:** March 24, 2011

**Request for Reconsideration End Date:** March 31, 2011

**PORT OF TACOMA**  
**ENVIRONMENTAL CHECKLIST**  
**PORT-WIDE EMERGENCY WARNING SYSTEM PROJECT**

**A. Background**

**1. Name of proposed project, if applicable:** Port-Wide Emergency Warning System Project

**2. Name of applicant:** Port of Tacoma

**3. Address and phone number of applicant and contact person:**

Port of Tacoma, ATTN: Thais Howard  
PO Box 1837  
Tacoma, WA 98401-1837  
253-383-5841 x706

**4. Date checklist prepared:**

March 4, 2011

**5. Agency requesting checklist:**

Port of Tacoma

**6. Proposed timing or schedule (including phasing, if applicable):**

The project is expected to commence in June 2011 and will be completed by June 2012.

**7. Do you have any plans for future actions, expansions, or further activity related to or connected with this proposal? If yes, explain.**

No.

**8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.**

Joint Aquatic Resources Project Application

**9. Do you know whether applications are pending for governmental approvals of other proposals affecting the property covered by your proposal? If yes, explain.**

No.

**10. List any government approvals or permits that will be needed for your proposal, if known.**

City of Tacoma Shoreline Substantial Development Permit; Washington Department of Ecology NPDES General Permit for Stormwater Discharges Associated with Construction Activities; Building and site development permits from City of Tacoma

- 11. Give brief, complete description of your proposal, including the proposed use and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include specific information on project description).**

The Port of Tacoma (Port) proposes installing an emergency warning system that will permit continuous, reliable, secure, and efficient communications of hazards throughout the port area. The area of the project encompasses the Port Operated Terminal 7 (T7), Washington United Terminals (WUT), Blair Terminal (Blair), Pierce County Terminal (PCT), Husky Terminal (Husky), East Blair One Terminal (EB1), TOTE Terminal (TOTE), APM Terminals (APMT), West Hylebos Pier One facility (WHP1), Earley Business Center (EBC), Pacific Rail Services Yard (PRS), the Ross Way old bank site (Ross Way) and the Marshall Avenue Auto Facility. The project will involve installing: 2 steel poles with concrete base, 8 bollards and approximately 540 linear feet of conduit at T7; 1 steel pole with concrete base, 4 bollards and approximately 230 linear feet of conduit at WUT; 1 steel pole with concrete base, 2 bollards and approximately 40 linear feet of conduit at Blair; 1 steel pole with concrete base, 4 bollards and approximately 30 linear feet of conduit at PCT; 2 steel poles with concrete bases, 8 bollards and approximately 43 linear feet of conduit at Husky; 1 steel pole with concrete base, 2 bollards and approximately 10 linear feet of conduit at EB1; 1 steel pole with concrete base, 4 bollards and approximately 170 linear feet of conduit at TOTE; 2 steel poles with concrete bases, 6 bollards and approximately 25 linear feet of conduit at APMT; 1 steel pole with concrete base, 2 bollards and approximately 10 linear feet of conduit at WHP1; 1 steel pole with concrete base, 4 bollards and approximately 250 linear feet of conduit at EBC; 1 steel pole with concrete base, 4 bollards and approximately 30 linear feet of conduit at PRS; 1 steel pole with concrete base, 2 bollards and approximately 130 linear feet of conduit at Ross Way and 1 steel pole with concrete base, 2 bollards and approximately 85 linear feet of conduit at Marshall Avenue Auto Facility. Each steel pole installation will require augering a 54-inch diameter hole approximately 12 feet deep, for a total excavation of approximately 106 cubic yards for all pole installations. Standard trenches will measure approximately 30 inches wide by 30 inches deep, resulting in the excavating of approximately 488 cubic yards of soil for trenches. Bollard installation will require excavation of approximately 83 cubic yards. This results in a total of approximately 677 cubic yards of soil excavation. Excavated soils will be tested and disposed of properly at a facility licensed to accept those materials. Replacement of excavated trench soils will be with approximately 238 cubic yards of controlled density fill (CDF), while replacement of base course and pavement will require placement of 136 and 114 cubic yards, respectively. Total fill will be approximately 488 cubic yards. Additionally, new electrical power wires will be pulled through multiple existing conduits, requiring no ground disturbance. Warning system equipment, including

speaker arrays, strobes and control cabinets will be installed on each pole along with new signs on each pole. A new antenna with a system controller will be installed at the Port's Security Bldg.

The work that will take place within 200 feet of the shoreline includes the installation of 8 poles and approximately 630 feet of new buried electrical power lines.

- 12. Location of the proposal. Give sufficient information to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps and detailed plans submitted with any specific applications related to this checklist.**

This Project is located over several parcels within the Port of Tacoma industrial area east of Milwaukee Way and north of State Hwy 509 in Tacoma, WA. The site address for each terminal is as follows: Port Operated Terminal 7 (2207 E. 11<sup>th</sup> St) in the NW quarter of Section 34, Township 21N, Range 3E; Washington United Terminals (1815 Port of Tacoma Road) in the SW quarter of Section 35, Township 21N, Range 3E; Blair Terminal (2901 Port of Tacoma Road) in the SE quarter of Section 35, Township 21N, Range 3E; Pierce County Terminal (901 Port of Tacoma Road) in the NW quarter of Section 1, Township 20N, Range 3E; Husky Terminal (710 Port of Tacoma Road) in the SW quarter of Section 27, Township 21N, Range 3E; East Blair One Terminal (2340 Alexander Avenue) in the SE quarter of Section 35, Township 21N, Range 3E; TOTE Terminal (500 Alexander Ave) in the SE quarter of Section 27, Township 21N, Range 3E; APM Terminals (1675 Lincoln Avenue) in the NW and SW quarters of Section 34, Township 21N, Range 3E, the West Hylebos Pier One (3401 Taylor Way) in the SE quarter of Section 36, Township 21N, Range 3E; Earley Business Center (401 Alexander Avenue) in the SE quarter of Section 26, Township 21N, Range 3E; the Pacific Rail Services Yard (1110 Milwaukee Way) in the SW quarter of Section 34, Township 21N, Range 3E; the Ross Way old bank site (2479 Ross Way) in the NE quarter of Section 34, Township 21N, Range 3E; and the Marshall Avenue Auto Facility (3003 Marshall Ave) in the NW quarter of Section 2, Township 20N, Range 3E, all of which are in the City of Tacoma, County of Pierce, State of Washington, W.M..

**B. Environmental Elements**

**1. Earth**

- a. General description of the site (underline one): Flat, rolling, hilly, mountainous, other.**

Flat.

- b. What is the steepest slope on the site (approximate percent slope)?**

The slopes on the lots are typically less than approximately 2 percent.

- c. **What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any prime farmland.**

The soils generally consist of silts, sands and gravels typical of industrial fill in the tideflats area of Commencement Bay.

- d. **Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.**

No.

- e. **Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.**

Replacement of excavated trench soils will be with approximately 238 cubic yards of controlled density fill (CDF), while replacement of base course and pavement will require placement of 136 and 114 cubic yards, respectively. Total fill will be approximately 488 cubic yards. All materials will come from certified sources

- f. **Could erosion occur as a result of grading, filling, construction, or use? If so, generally describe.**

Erosion is not expected to occur during or following construction.

- g. **About what percent of the site will be covered with impervious surfaces after project completion (for example, asphalt or buildings)?**

All sites will have the same percentages of impervious surfaces after the project as currently exist. No new pavement is proposed and the square footages of bollards and poles will not add enough to alter the percentage at any given site.

- h. **Proposed measures to reduce or control erosion, or other impacts to the earth, if any:**

Control measures (e.g. silt fences, mulching, etc.) will be used as appropriate to minimize any erosion during project implementation. Best management practices (BMPs) for the temporary construction activities will meet the City of Tacoma's stormwater management manual.

## 2. Air

- a. **What type of emissions to the air would result from the proposal (i.e. dust, automobile, odors, industrial, wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities, if known.**

During the project, there will be an increase in air emissions associated with demolition equipment. Emissions of PM<sub>2.5</sub> are estimated at approximately 0.30 tons. The Port requires the use of ultra low sulfur diesel in construction equipment on its projects and has an enforced anti-idling policy.

The PM<sub>2.5</sub> emissions from this project, as compared to the General Conformity de minimis levels for PM<sub>2.5</sub> (100 tons per year), are insignificant and will not affect regional air quality.

There is also the possibility of fugitive dust (which will be controlled through BMPs) associated with the trenching activity. These potential emissions are compatible with the surrounding heavy industrial land uses.

- b. **Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.**

No sources which could affect this project have been identified.

- c. **Proposed measures to reduce or control emissions or other impacts to air, if any:**

Equipment will be maintained in good order, and idling will be limited to the extent practicable to reduce emissions.

3. **Water**

- a. **Surface:**

- 1) **Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.**

Yes; the Sitcum and Blair Waterways are adjacent to some of the properties, as is Kaiser Ditch, a tributary to the Hylebos Waterway (see attached exhibits).

- 2) **Will the project require any work over, in, or adjacent to (within 200') the described waters? If yes, please describe and attach available plans.**

Yes, some of the work will occur adjacent to the described water bodies as shown in the attached figures.

- 3) **Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.**

There will be no fill placed in the waterways and no soils will be dredged/excavated from them.

- 4) **Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities, if known.**

No.

- 5) **Does the proposal lie within a 100-year floodplain? If so, note the location on the site plan.**

No.



- 6) **Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.**

No waste materials will be discharged to surface waters.

**b. Ground:**

- 1) **Will groundwater be withdrawn, or will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known.**

No groundwater will be withdrawn, and no water will be discharged to groundwater.

- 2) **Describe waste materials that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals...; agricultural; etc.) Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.**

None.

**c. Water Runoff (including storm water):**

- 1) **Describe the source of runoff (including storm water) and the method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.**

Runoff will be from stormwater, which will flow to existing storm drainage on the various sites. All city requirements for the handling of stormwater will be followed.

- 2) **Could waste materials enter ground or surface waters? If so, generally describe.**

No.

- d. Proposed measures to reduce or control surface, ground, and runoff water impacts, if any:**

During and after construction, appropriate measures will be taken to control stormwater runoff impacts associated with the project.

**4. Plants**

- a. Check or circle types of vegetation found on site:**

deciduous tree: alder, maple, aspen, other: **various ornamentals**

evergreen tree: fir, cedar, pine, other

shrubs

grass

pasture

crop or grain

wet soil plants: cattail, buttercup, bullrush, skunk cabbage,

water plants: water lily, eelgrass, milfoil, other

other types of vegetation:

**b. What kind and amount of vegetation will be removed or altered?**

No vegetation is anticipated to be removed.

**c. List any threatened or endangered species known to be on or near the site.**

None known.

**d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:**

None.

**5. Animals**

**a. Underline any birds or animals which have been observed on or near the site or are known to be on or near the site:**

**birds:** hawk, heron, eagle, songbirds, other:

**mammals:** deer, bear, elk, beaver, other:

**fish:** salmon, trout, herring, shellfish, other: species common to Puget Sound

**b. List any threatened or endangered species known to be on or near the site.**

There are no known endangered species on the site. With respect to near the site, the following is known:

On May 24, 1999, the National Marine Fisheries Service (NMFS) formalized listing of Puget Sound Chinook salmon as threatened under the Endangered Species Act (ESA). This species occurs in the Puyallup River drainage and Commencement Bay.

The U.S. Fish and Wildlife Service (USFWS) announced the listing of Coastal-Puget Sound bull trout (*Salvelinus confluentus*) as threatened on October 28, 1999. Bull trout occur in the Puyallup River drainage and Commencement Bay.

On November 15, 2005 the National Marine Fisheries Service (NMFS) formalized listing of Southern Resident Orcas as endangered under the Endangered Species Act. The pods listed may transit Commencement Bay during summer months.

Other listed species that could occur in the Project area include the humpback whale (*Megaptera novaeangliae*), Steller sea lion (*Eumetopias jubatus*), leatherback sea turtle (*Dermochelys coriacea*) and bald eagle (*Haliaeetus leucocephalus*). This list of species is based on information provided by NMFS and USFWS with respect to another Port project in Commencement Bay (Blair Waterway Infrastructure Improvements Project).

On May 11, 2007, the National Marine Fisheries Service (NMFS) formalized listing of Puget Sound Steelhead (*Oncorhynchus mykiss*) as threatened under the Endangered Species Act, to take effect June 11, 2007. Steelhead may occur in the Puyallup River drainage and Commencement Bay.

On March 8, 2010 the Southern DPS of Eulachon (*Thaleichthys pacificus*) were listed as threatened under the Endangered Species Act by the National Marine Fisheries Service.

The National Marine Fisheries Service (NMFS) has indicated that it does not generally consider that Pacific eulachon occur in the vicinity of Port waterways.

On April 28, 2010 the National Marine Fisheries Service (NMFS) formalized listing of three species of rockfish. The Puget Sound/Georgia Basin Distinct Population Segments of yelloweye (*Sebastes ruberrimus*) and canary rockfish (*Sebastes penniger*) are listed as threatened, and bocacio (*Sebastes paucispinis*) are listed as endangered.

The project will not impact existing habitat nor will it have an adverse impact on water quality or fish life.

**c. Is the site part of a migration route? If so, explain.**

The Tacoma tideflats are a part of the Pacific flyway for migrating birds. The project sites consist of upland areas and wetlands. Adult salmon emigrate from Commencement Bay into the Puyallup River system to spawn, and juveniles migrate downstream into Commencement Bay as smolts.

**d. Proposed measures to preserve or enhance wildlife, if any:**

None planned.

**6. Energy and Natural Resource**

**a. What kinds of energy (electrical, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.**

Electrical energy will be used to power the communications system.

**b. Would your project affect the potential use of solar power by adjacent properties? If so, generally describe.**

No.

**c. What kinds of energy conservation features are included in the plans for this proposal? List other proposed measures to reduce or control energy impacts, if any**

None.

**7. Environmental Health**

**a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, generally describe.**

No

**1) Describe special emergency services that might be required.**

No special emergency service needs are anticipated.

**2) Proposed measures to reduce or control environmental health hazards, if any:**

All applicable state and federal safety guidelines will be adhered to in the implementation of the proposed project. The need for additional measures is not anticipated.

**b. Noise**

**1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?**

The site is located in an industrial area. Noise is not expected to affect the project.

**2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.**

Noise will be generated during construction associated with the project; however, that noise will be consistent with the surrounding industrial areas.

**3) Proposed measures to reduce or control impacts, if any:**

None.

**8. Land and Shoreline Use**

**a. What is the current use of the site and adjacent properties?**

The sites are generally used for the loading and unloading of containerized goods, the storage and processing of automobiles, and other maritime-oriented uses. The primary uses of adjacent properties are commercial and industrial.

**b. Has the site been used for agriculture? If so, describe.**

No.

**c. Describe any structure on the site.**

There are a multitude of administrative, maintenance, and processing buildings on the sites, as well as bollards, light poles, marginal wharves, cranes, and electrical distribution structures on the sites.

**d. Will any structures be demolished?**

No.

**e. What is the current zoning?**

Port Maritime and Industrial

**f. What is the current comprehensive plan designation of the site?**

High Intensity

**g. If applicable, what is the current shoreline master program designation of the site?**

NA.

**h. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.**

No.

**i. Approximately how many people would reside or work in the completed project?**

There will be no residents in the completed project.

**j. Approximately how many people would the completed project displace?**

None.

**k. Proposed measures to avoid or reduce displacement impacts, if any:**

None needed.

**l. Proposed measures to insure the proposal is compatible with existing and projected land uses and plans, if any:**

The site use proposed is compatible and consistent with the surrounding uses and with current zoning and comprehensive plan designations for this site.

**9. Housing**

**a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.**

Not applicable.

**b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.**

Not applicable.

**c. Proposed measures to reduce or control housing impacts, if any:**

Not applicable.

**10. Aesthetics**

**a. What is the tallest height of any proposed structure(s), not including antennas; what is the principle exterior building material(s) proposed?**

No structures are proposed.

**b. What views in the immediate vicinity would be altered or obstructed?**

None.

- c. **Proposed measures to reduce or control aesthetic impacts, if any:**

None.

11. **Light and Glare**

- a. **What type of light and glare will the proposal produce? What time of day would it mainly occur?**

Electric Strobes will flash when the system is activated to alert personnel to the emergency. Such an occurrence may occur at any time of day or night.

- b. **Could light or glare from the finished project be a safety hazard or interfere with views?**

No; the light is designed to reduce dangers associated with a known hazard by visually alerting personnel.

- c. **What existing off-site source of light or glare may affect your proposal?**

None.

- d. **Proposed measures to reduce or control light and glare impacts, if any:**

None.

12. **Recreation**

- a. **What designated and informal recreational opportunities are in the immediate vicinity?**

Recreational fishing and boating occur in Commencement Bay.

- b. **Would the proposed project displace any existing recreational uses? If so, describe.**

No.

- c. **Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:**

None needed, as the project does not interfere with any access to recreational opportunities.

13. **Historic and Cultural Preservation**

- a. **Are there any places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site? If so, general describe.**

There are no places or objects on or next to the sites known to be listed or proposed for national, state, or local preservation registers.

- b. **Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site.**

None known.

- c. **Proposed measures to reduce or control impacts, if any:**

None needed.

14. **Transportation**

- a. **Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any.**

The sites are located on East 11<sup>th</sup> Street, Port of Tacoma Road, Milwaukee Way, Alexander Avenue, and Thorne Road, each with a driveway. That access will not be altered.

- b. **Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?**

This general area is served by Pierce Transit, with stops located near many of the facilities.

- c. **How many parking spaces would the completed project have? How many would the project eliminate?**

There are currently several thousand parking spaces distributed among the sites, none of which will be eliminated. No new parking spaces will be created.

- d. **Will the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private).**

No.

- e. **Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.**

Yes; the project is located on parcels in the vicinity of water and rail transportation given the proximity of the locations to the Port of Tacoma. There will be no impact on either.

- f. **How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.**

The sites are currently experiencing hundreds to thousands of vehicular trips per day, with the peak hours being between eight am and five pm, dependent upon vessel schedules and the needs of the tenants. Following construction, it is expected that the number of trips will remain the same with no change in the peak.

- g. **Proposed measures to reduce or control transportation impacts, if any:**

None.

15. **Public Services**

- a. **Would the project result in an increased need for public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe.**

No.

- b. **Proposed measures to reduce or control direct impacts to public services, if any.**

Not applicable.

16. **Utilities**

- a. **Underline utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other.**

The above identified utilities are available to the properties.

- b. **Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.**

No new utility services will be required as a result of the completion of the proposed project.

C. **SIGNATURE**

**The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.**

Signature: \_\_\_\_\_

Date Submitted: \_\_\_\_\_

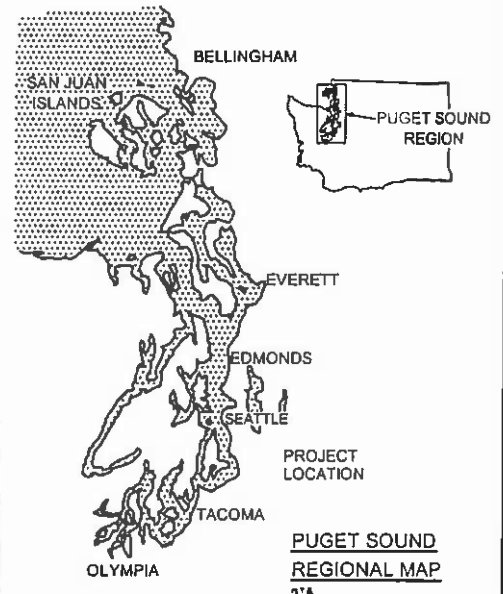
*Thais Howard*  
*3/9/12*



# 098018 PORTWIDE EMERGENCY WARNING SYSTEM (OGT-7)

## DIRECTIONS TO THE PORT OF TACOMA ADMINISTRATION OFFICE

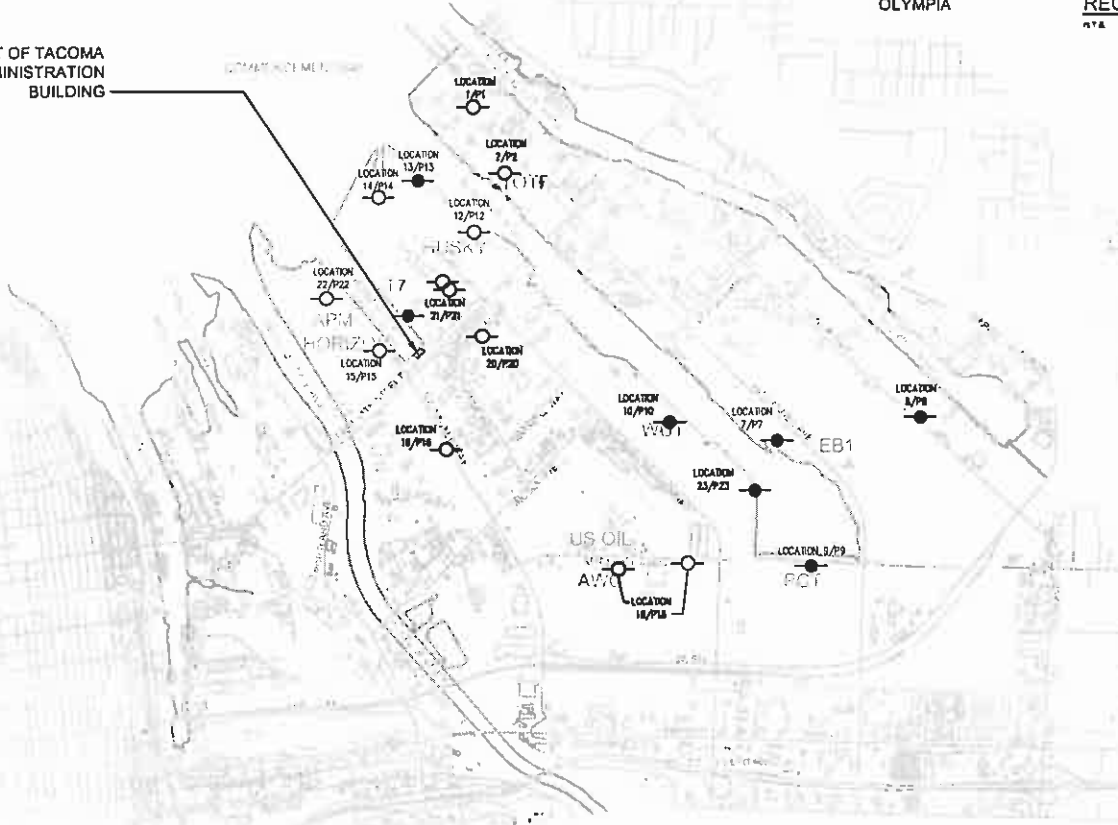
NORTHBOUND: EXIT 136B LOOPS UP & OVER FREEWAY ONTO PORT OF TACOMA ROAD  
 SOUTHBOUND: EXIT 136 AND TURN RIGHT AT END OF EXIT ONTO PORT OF TACOMA ROAD.  
 FOLLOW PORT OF TACOMA ROAD FOR APPROX. 3 MILES. AT EAST 11TH STREET TURN LEFT  
 AND CONTINUE APPROX. 1/2 MILE. EXIT EAST 11TH STREET TO THE RIGHT JUST BEFORE  
 THE BRIDGE AT THE STOP SIGN MAKE A HAIR PIN TURN TO THE RIGHT.  
 THE ADMINISTRATION OFFICE BUILDING IS LOCATED TO THE LEFT AT THE HEAD OF SITCUM WATERWAY.



### LEGEND

- PROPOSED POLE LOCATION WITHIN 200' SHORELINE SETBACK
- PROPOSED POLE LOCATION OUTSIDE 200' SHORELINE SETBACK

PORT OF TACOMA ADMINISTRATION BUILDING



Port of Tacoma Vicinity Map



DATE OF PRINT Feb 25, 2011 1 12:29pm - BY rebeccab - FILE LOCATION 11108-1108014 Emergency Broadcast System\13 Drawing\SLP-Location\KeyMap - G2.dwg



**PORT OF TACOMA**  
 P.O. BOX 1837 TACOMA, WA 98401  
 (253)383-5841

### LOCATION KEY MAP

G2

STATE: WA  
 COUNTY: PIERCE  
 CITY/PORT: PORT OF TACOMA  
 LOCATION: AS SHOWN  
 PURPOSE: EMERGENCY WARNING SYSTEM (OGT-7)

PROJECT NO: 098018

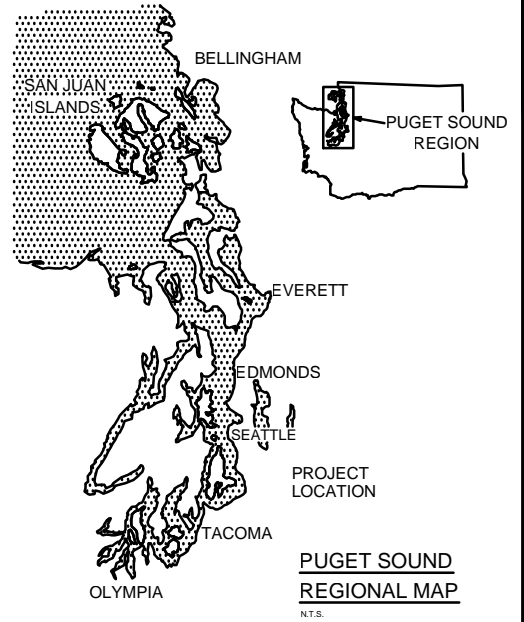
SHEET: 1 OF 9

DATE: 02/25/11

# 069268 PORTWIDE EMERGENCY WARNING SYSTEM (OGT-7)

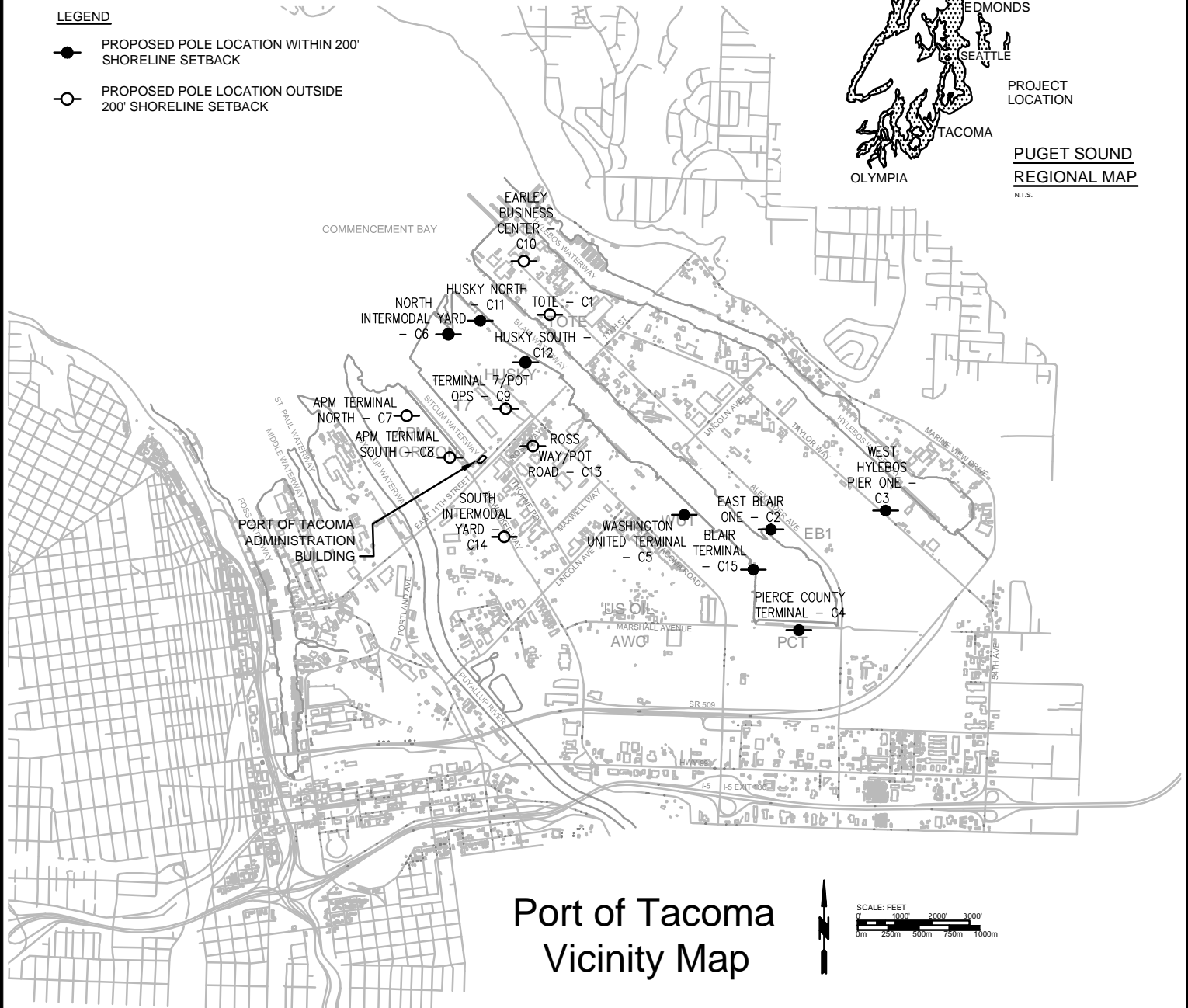
## DIRECTIONS TO THE PORT OF TACOMA ADMINISTRATION OFFICE

NORTHBOUND: EXIT 136B LOOPS UP & OVER FREEWAY ONTO PORT OF TACOMA ROAD  
 SOUTHBOUND: EXIT 136 AND TURN RIGHT AT END OF EXIT ONTO PORT OF TACOMA ROAD.  
 FOLLOW PORT OF TACOMA ROAD FOR APPROX. 3 MILES. AT EAST 11TH STREET TURN LEFT  
 AND CONTINUE APPROX. 1/2 MILE. EXIT EAST 11TH STREET TO THE RIGHT JUST BEFORE  
 THE BRIDGE. AT THE STOP SIGN MAKE A HAIR PIN TURN TO THE RIGHT.  
 THE ADMINISTRATION OFFICE BUILDING IS LOCATED TO THE LEFT AT THE HEAD OF SITCUM WATERWAY.  
 A TOTAL OF APPROXIMATELY 373 CUBIC YARDS OF SOIL WILL BE EXCAVATED.

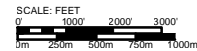


### LEGEND

- PROPOSED POLE LOCATION WITHIN 200' SHORELINE SETBACK
- PROPOSED POLE LOCATION OUTSIDE 200' SHORELINE SETBACK



Port of Tacoma  
Vicinity Map



DATE OF PRINT: Apr 07, 2011 9:22:55am - BY: rebekaho - FILE LOCATION: I:\108-108014 Emergency Broadcast System\3.13 Drawings\SLP-LocationKeyMap - G2.dwg



**PORT OF TACOMA**  
 P.O. BOX 1837 TACOMA, WA 98401  
 (253)383-5841

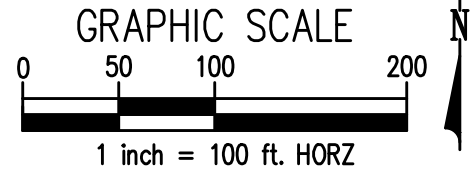
### LOCATION KEY MAP

G2

STATE: WA  
 COUNTY: PIERCE  
 CITY/PORT: PORT OF TACOMA  
 LOCATION: AS SHOWN  
 PURPOSE: EMERGENCY WARNING SYSTEM (OGT-7)

PROJECT NO: 069268  
 SHEET: 1 OF 12 DATE: 04/07/11

# 069268 PORTWIDE EMERGENCY WARNING SYSTEM (OGT-7)

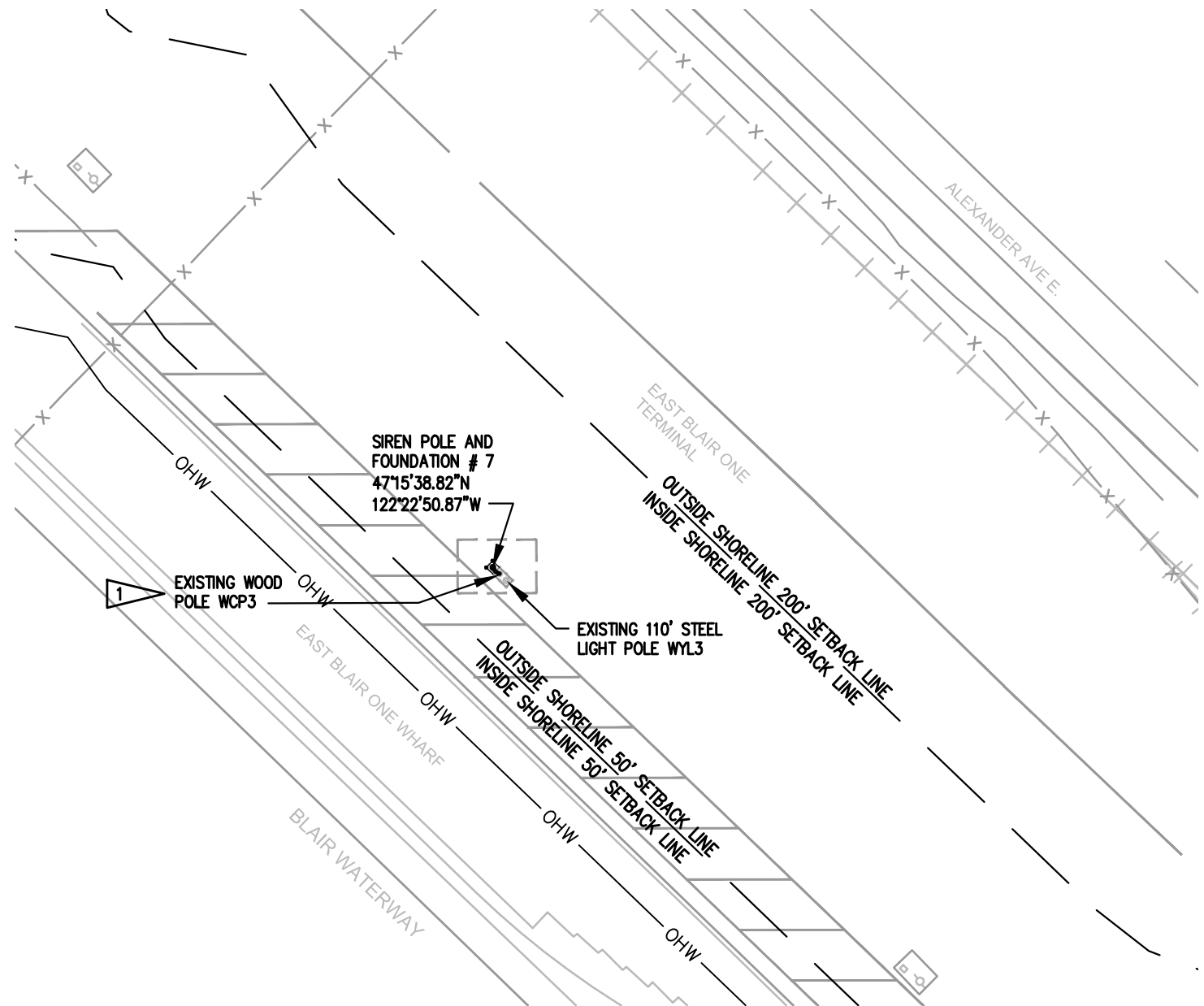


SECTION, TOWNSHIP, AND RANGE

QUARTER: SE  
SECTION: 35  
TOWNSHIP: 21N  
RANGE: 3E

PORT PARCEL

17



DATE OF PRINT: Apr 07, 2011 9:24:19am - BY: rebekah - FILE LOCATION: C:\Users\REBEKA-1\KPF\AppData\Local\Temp\AcPublish\_7848\SLP\_Location 01-12.dwg



**PORT OF TACOMA**

P.O. BOX 1837 TACOMA, WA 98401  
(253)383-5841

**EAST BLAIR ONE**

**C2**

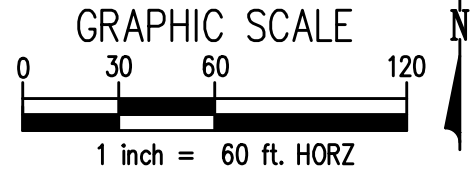
STATE: WA  
COUNTY: PIERCE  
CITY/PORT: PORT OF TACOMA  
LOCATION: EAST BLAIR ONE TERMINAL/BLAIR WATERWAY  
PURPOSE: EMERGENCY WARNING SYSTEM (OGT-7)

PROJECT NO: 069268

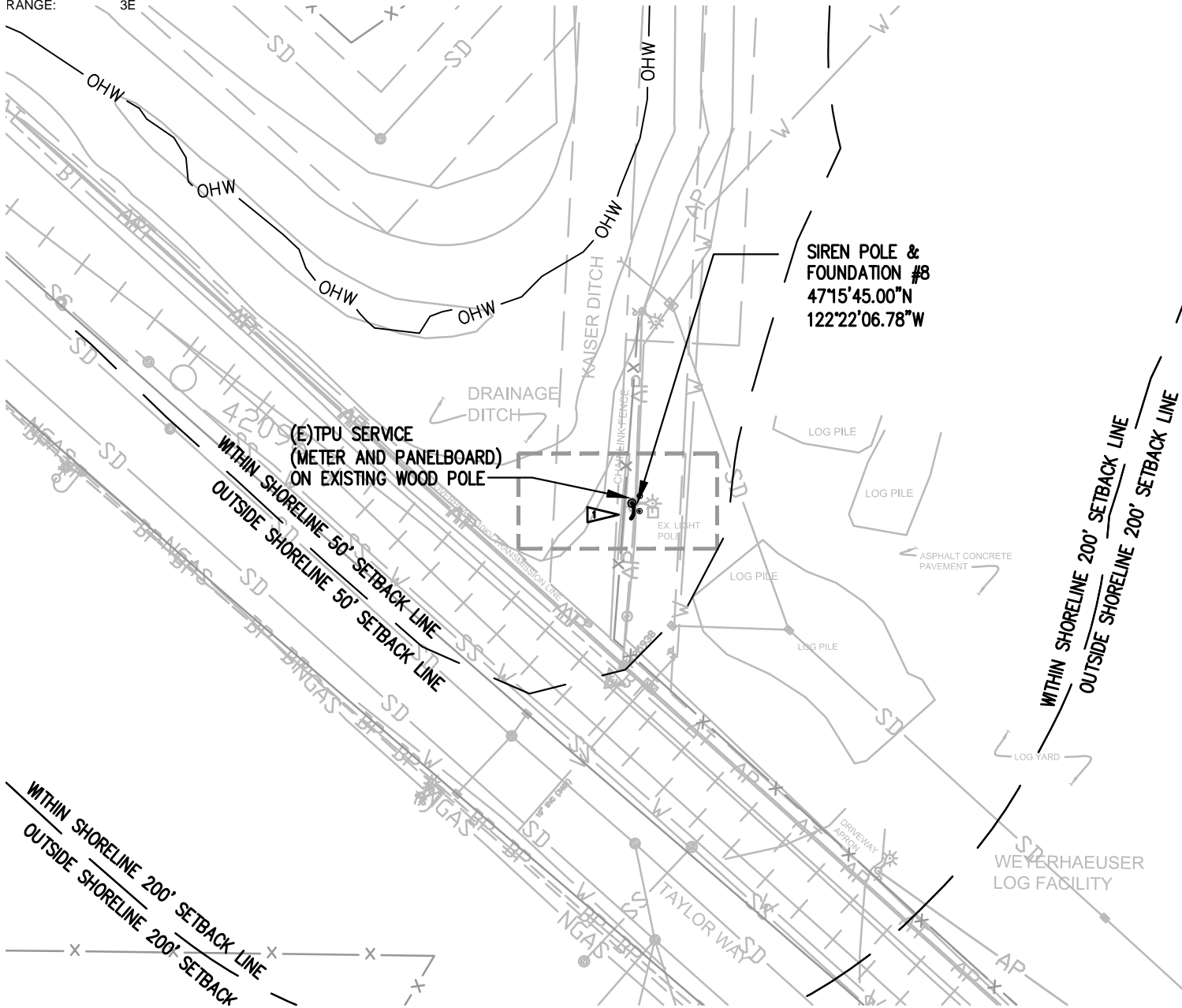
SHEET: 2 OF: 12

DATE: 04/07/11

# 069268 PORTWIDE EMERGENCY WARNING SYSTEM (OGT-7)



SECTION, TOWNSHIP, AND RANGE      PORT PARCEL  
 QUARTER: SE of NW & NE of SW      10  
 SECTION: 01  
 TOWNSHIP: 20N  
 RANGE: 3E



DATE OF PRINT: Apr 07, 2011 9:24:42am - BY: rebeako - FILE LOCATION: C:\Users\REBEKA-1\KPF\AppData\Local\Temp\AcPublish\_7848\SLP\_Location 01-12.dwg



**PORT OF TACOMA**  
 P.O. BOX 1837 TACOMA, WA 98401  
 (253)383-5841

**WEST HYLEBOS PIER ONE C3**

STATE: WA  
 COUNTY: PIERCE  
 CITY/PORT: PORT OF TACOMA  
 LOCATION: WYERHAEUSER LOG FACILITY/KAISER DITCH  
 PURPOSE: EMERGENCY WARNING SYSTEM (OGT-7)  
 PROJECT NO: 069268  
 SHEET: 3 OF: 12      DATE: 04/07/11

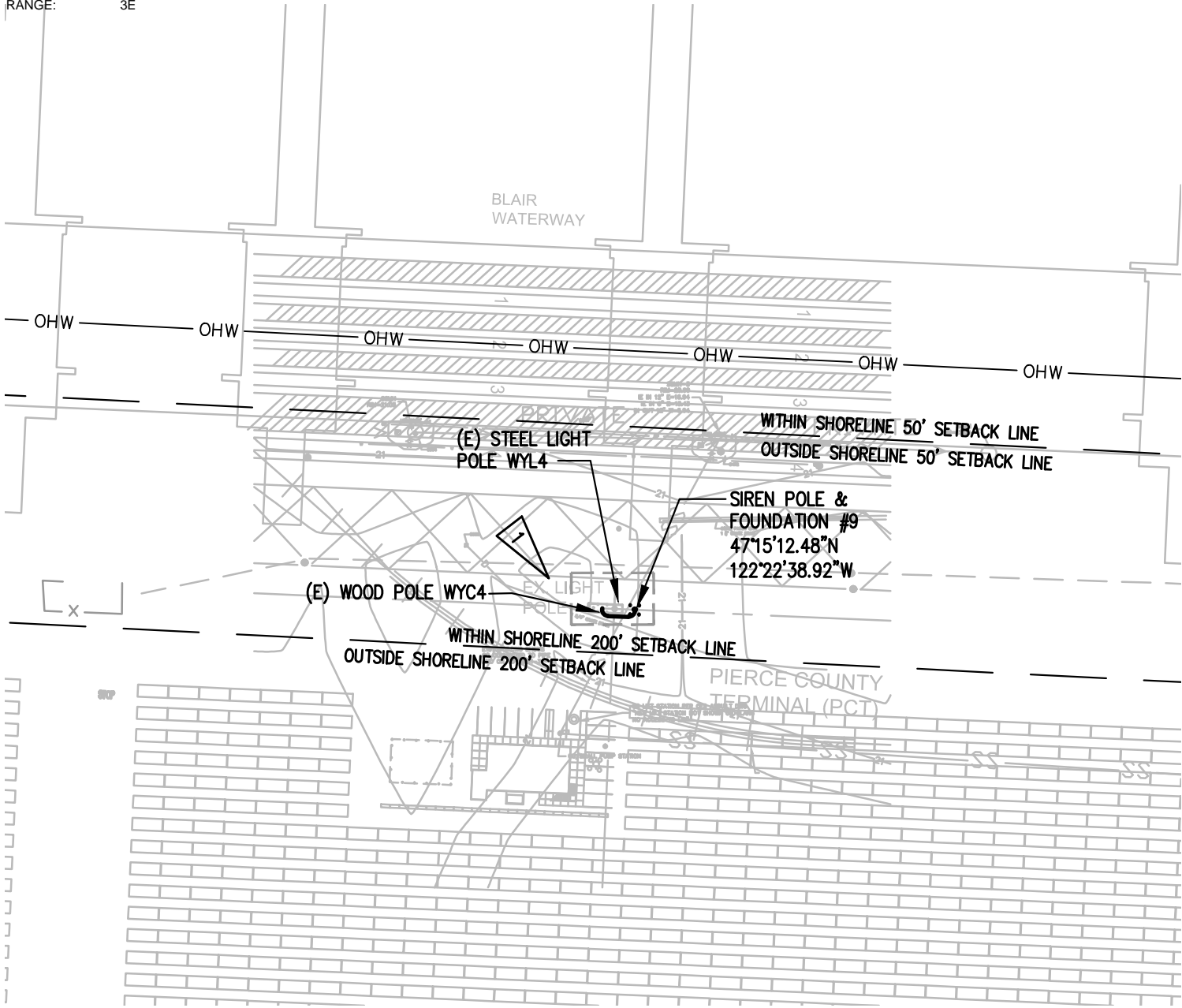
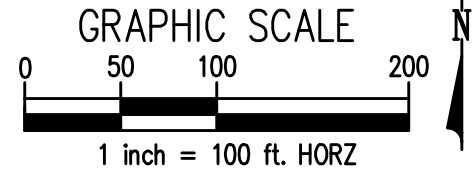
# 069268 PORTWIDE EMERGENCY WARNING SYSTEM (OGT-7)

**SECTION, TOWNSHIP, AND RANGE**

QUARTER: NW  
 SECTION: 01  
 TOWNSHIP: 20N  
 RANGE: 3E

**PORT PARCEL**

16 = PIERCE COUNTY TERMINAL



DATE OF PRINT: Apr 07, 2011 9:25:05am - BY: rebeaho - FILE LOCATION: C:\Users\REBEKA-1.KPF\AppData\Local\Temp\AcPublish\_7848\SLP\_Location 01-12.dwg



**PORT OF TACOMA**  
 P.O. BOX 1837 TACOMA, WA 98401  
 (253)383-5841

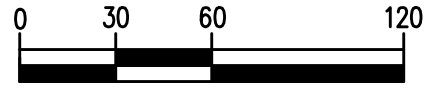
**PIERCE COUNTY TERMINAL C4**

STATE: WA  
 COUNTY: PIERCE  
 CITY/PORT: PORT OF TACOMA  
 LOCATION: PIERCE COUNTY TERMINAL (PCT)/BLAIR WATERWAY  
 PURPOSE: EMERGENCY WARNING SYSTEM (OGT-7)

PROJECT NO: 069268  
 SHEET: 4 OF: 12 DATE: 04/07/11

# 069268 PORTWIDE EMERGENCY WARNING SYSTEM (OGT-7)

GRAPHIC SCALE



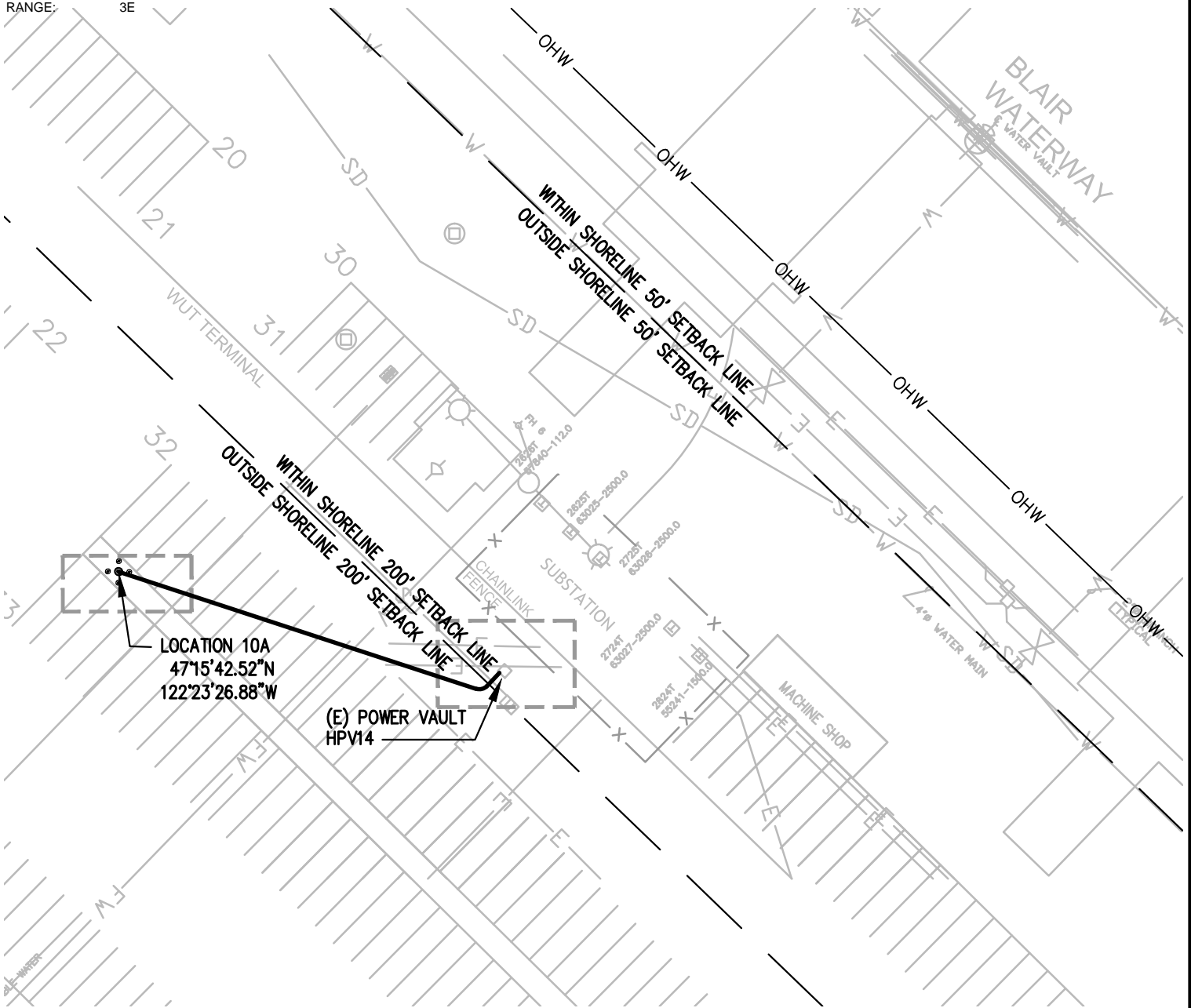
1 inch = 60 ft. HORZ

**SECTION, TOWNSHIP, AND RANGE**

QUARTER: SW  
SECTION: 35  
TOWNSHIP: 21N  
RANGE: 3E

**PORT PARCEL**

24 = BLAIR TERMINAL  
25 = WUT TERMINAL



DATE OF PRINT: Apr 07, 2011 9:25:28am - BY: rebeaho - FILE LOCATION: C:\Users\REBEKA-1\KPF\AppData\Local\Temp\AcPublish\_7848\SLP\_Location 01-12.dwg



**PORT OF TACOMA**

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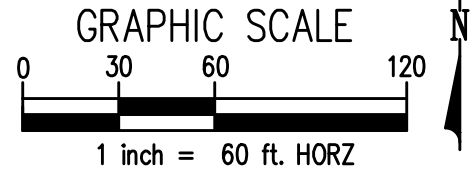
**WASHINGTON UNITED TERMINAL C5**

STATE: WA  
COUNTY: PIERCE  
CITY/PORT: PORT OF TACOMA  
LOCATION: WUT TERMINAL/BLAIR WATERWAY  
PURPOSE: EMERGENCY WARNING SYSTEM (OGT-7)

PROJECT NO: 069268  
SHEET: 5 OF: 12

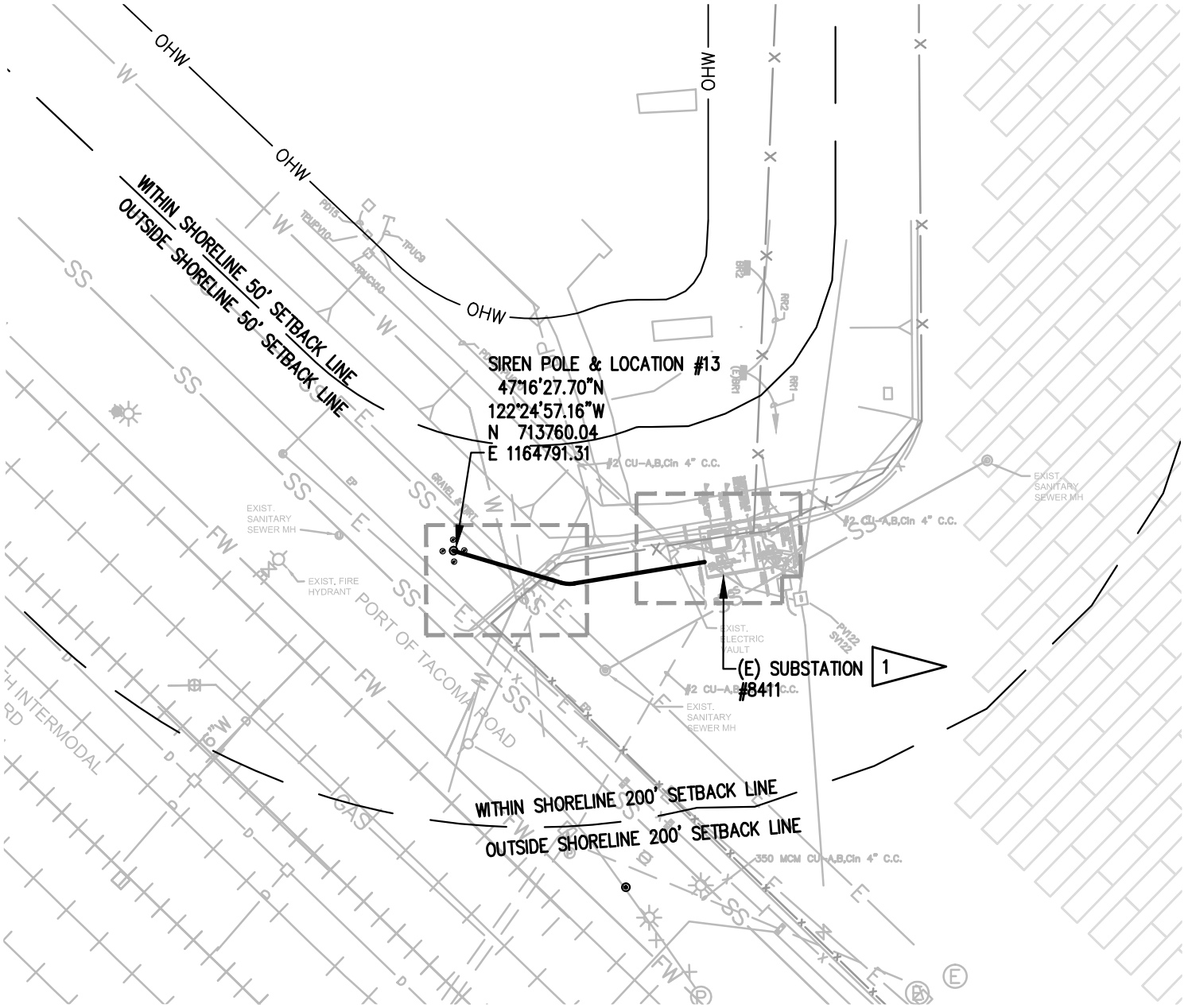
DATE: 04/07/11

# 069268 PORTWIDE EMERGENCY WARNING SYSTEM (OGT-7)



SECTION, TOWNSHIP, AND RANGE  
 QUARTER: SW  
 SECTION: 27  
 TOWNSHIP: 21N  
 RANGE: 3E

PORT PARCEL  
 27 = HUSKY TERMINAL



DATE OF PRINT: Apr 07, 2011 9:25:54am - BY: rebekaho - FILE LOCATION: I:\108-108014 Emergency Broadcast System\3.13 Drawings\SLP\_Location 13-23.dwg



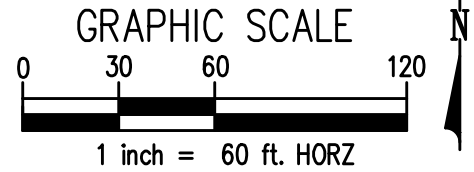
**PORT OF TACOMA**  
 P.O. BOX 1837 TACOMA, WA 98401  
 (253)383-5841

**NORTH INTERMODAL YARD C6**

STATE: WA  
 COUNTY: PIERCE  
 CITY/PORT: PORT OF TACOMA  
 LOCATION: NORTH INTERMODAL YARD  
 PURPOSE: EMERGENCY WARNING SYSTEM (OGT-7)

PROJECT NO: 069268  
 SHEET: 6 OF: 12 DATE: 04/07/11

# 069268 PORTWIDE EMERGENCY WARNING SYSTEM (OGT-7)

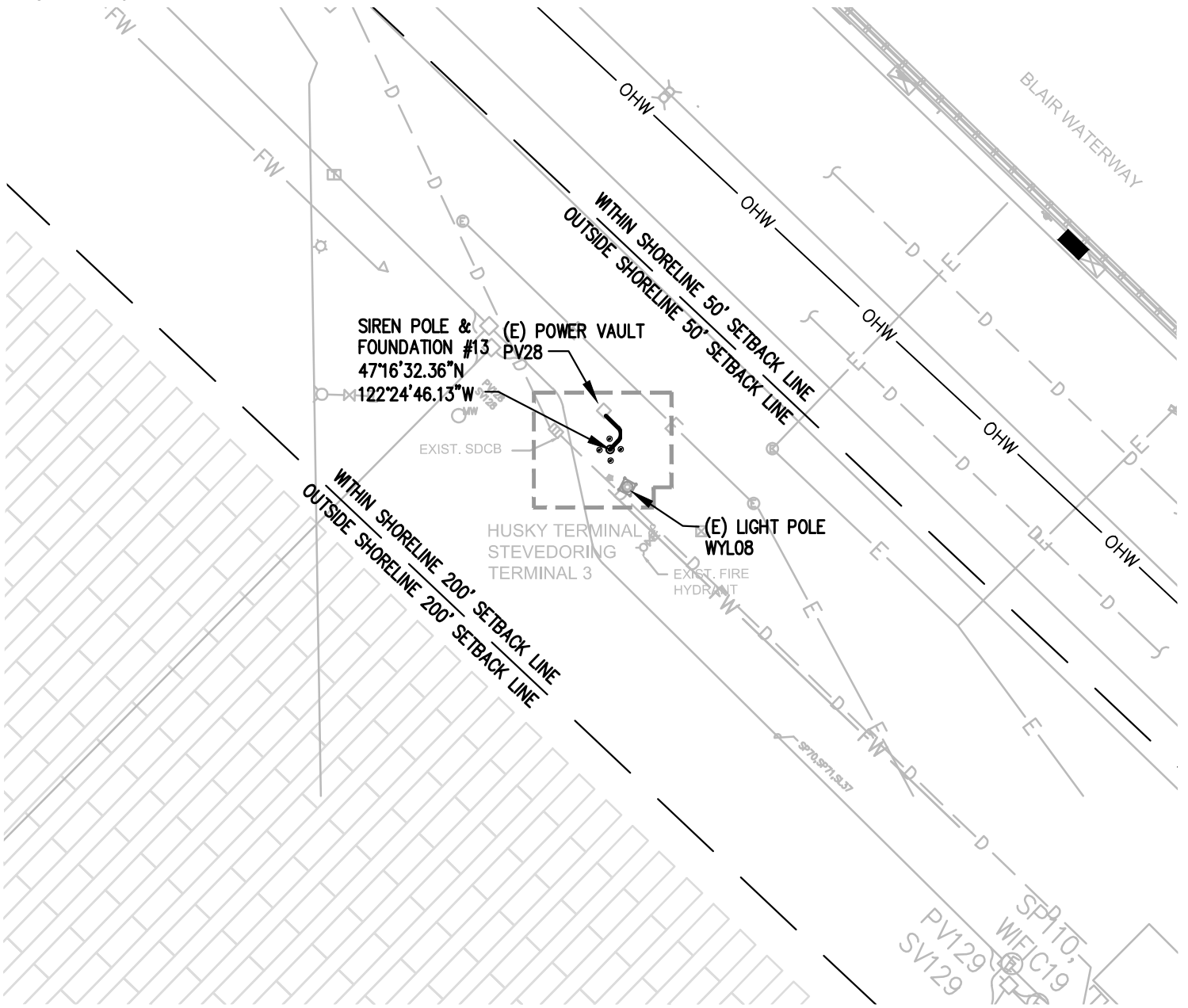


SECTION, TOWNSHIP, AND RANGE SW

QUARTER: SW  
SECTION: 27  
TOWNSHIP: 21N  
RANGE: 3E

PORT PARCEL

27 = HUSKY TERMINAL



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**PORT OF TACOMA**  
P.O. BOX 1837 TACOMA, WA 98401  
(253)383-5841

**HUSKY NORTH**

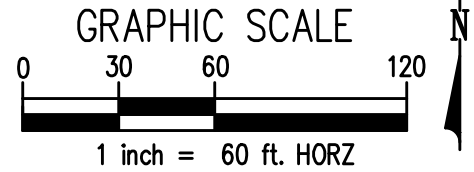
**C11**

STATE: WA  
COUNTY: PIERCE  
CITY/PORT: PORT OF TACOMA  
LOCATION: HUSKY TERMINAL & STEVEDORING TERMINAL 3  
PURPOSE: EMERGENCY WARNING SYSTEM (OGT-7)

PROJECT NO: 069268  
SHEET: 7 OF: 12  
DATE: 04/07/11



# 069268 PORTWIDE EMERGENCY WARNING SYSTEM (OGT-7)



**SECTION, TOWNSHIP, AND RANGE**

QUARTER: SW  
SECTION: 27  
TOWNSHIP: 21N  
RANGE: 3E

**PORT PARCEL**

27 = HUSKY TERMINAL



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**PORT OF TACOMA**  
P.O. BOX 1837 TACOMA, WA 98401  
(253)383-5841

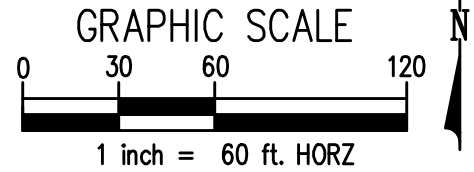
**HUSKY SOUTH**

**C12**

STATE: WA  
COUNTY: PIERCE  
CITY/PORT: PORT OF TACOMA  
LOCATION: HUSKY TERMINAL/BLAIR WATERWAY  
PURPOSE: EMERGENCY WARNING SYSTEM (OGT-7)

PROJECT NO: 069268  
SHEET: 8 OF: 12  
DATE: 04/07/11

# 098018 PORTWIDE EMERGENCY WARNING SYSTEM (OGT-7)

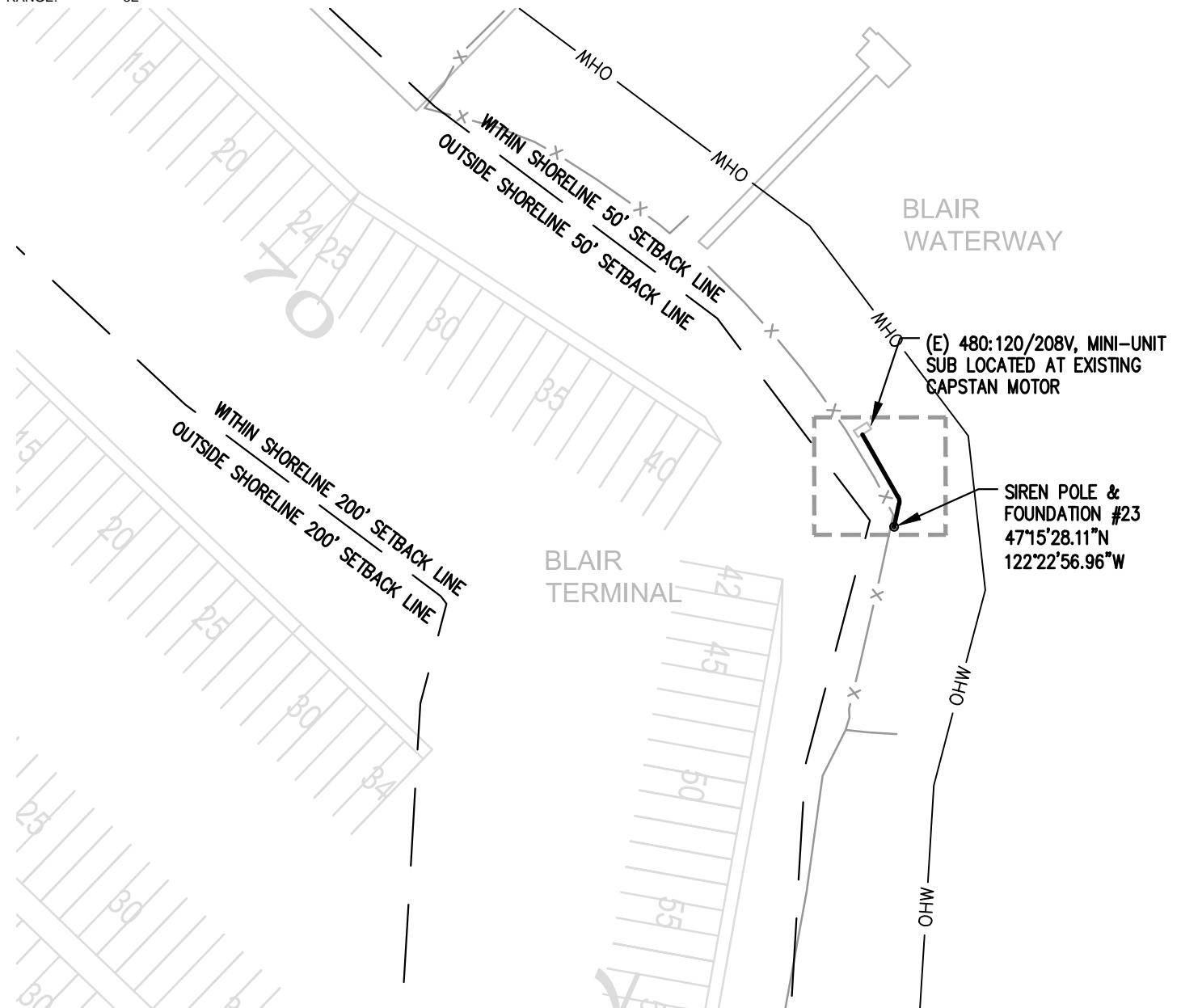


**SECTION, TOWNSHIP, AND RANGE**

QUARTER: SE  
SECTION: 35  
TOWNSHIP: 21N  
RANGE: 3E

**PORT PARCEL**

24 = BLAIR TERMINAL



DATE OF PRINT: Apr 07, 2011 9:27:45am - BY: rebekaho - FILE LOCATION: I:\108-108014 Emergency Broadcast System\3.13 Drawings\SLP\_Location 13-23.dwg



**PORT OF TACOMA**

P.O. BOX 1837 TACOMA, WA 98401  
(253)383-5841

**BLAIR TERMINAL**

**C15**

STATE: WA  
COUNTY: PIERCE  
CITY/PORT: PORT OF TACOMA  
LOCATION: BLAIR TERMINAL/BLAIR WATERWAY  
PURPOSE: EMERGENCY WARNING SYSTEM (OGT-7)

PROJECT NO: 069268  
SHEET: 9 OF: 12

DATE: 04/07/11

# 069268 PORTWIDE EMERGENCY WARNING SYSTEM (OGT-7)

## NOTES:

### GENERAL

- FOR POLE AND ELECTRICAL COMPONENTS SEE ELECTRICAL DRAWINGS.
- FOR WELD DETAIL AT SPIRAL ENDS SEE 2/\_\_\_ .
- MINIMUM COMPRESSIVE CONCRETE STRENGTH AT 28 DAYS = 4,000 PSI.

### IBC 2009 - EARTHQUAKE DESIGN DATA

- BASIC SEISMIC FORCE RESISTING SYSTEM (NONBUILDING STRUCTURE)  
TELECOMMUNICATION TOWER STEEL POLE
- DESIGN BASE SHEAR (V):  $V_x = V_y = 1.9$  KIP
- SEISMIC RESPONSE COEFFICIENT  $C_{sx} = C_{sy} = 0.547$
- RESPONSE MODIFICATION FACTORS:

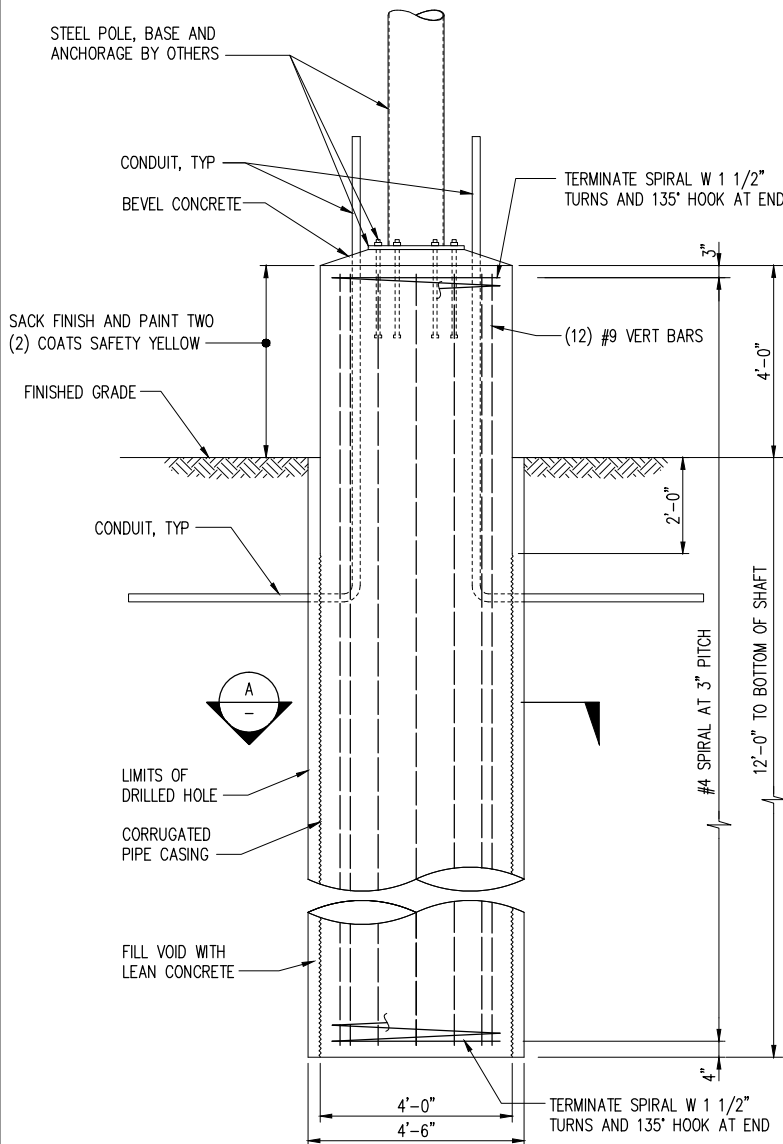
$$R = 1.5 \text{ (ASCE 7 TABLE 15.4-2)}$$

$$\rho = 1.0 \text{ REDUNDANCY FACTOR (ASCE 7 12.3.4.1)}$$

- ANALYSIS PROCEDURE USED:  
EQUIVALENT LATERAL LOAD PROCEDURE

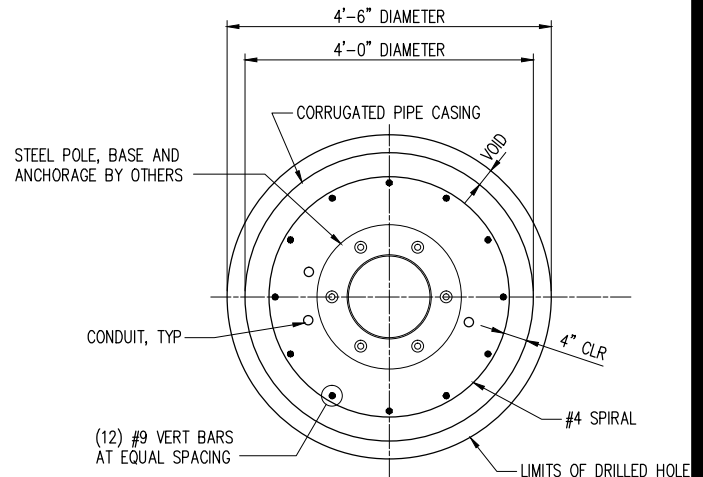
### IBC 2009 - WIND DESIGN DATA SEE NOTES BELOW:

- DESIGN WIND PRESSURE  $p = 0.00256 \times K_z \times K_{zt} \times K_d \times V^2 \times I$  (PSF) (ACSE 7 Eq. 6-15)  
= 20 psf
- REACTIONS DUE TO WIND LOAD AT THE BASE OF THE POLE BASED ON A DESIGN WIND SPEED OF 85 MPH.  $R_w = 3.8k$



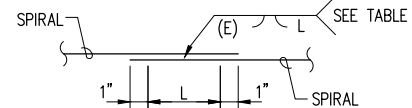
**ELEVATION - SIREN POLE FOUNDATION**

SCALE: 1"=4'-0"



**SECTION**

SCALE: 1"=3'-0"



SPIRAL REINFORCEMENT WELD TABLE		
SPIRAL WIRE OR BAR SIZE	WELD THROAT (E) (INCHES)	WELD LENGTH "L" (INCHES)
#4	5/32"	5"

**WELD DETAIL**

SCALE: NONE



DATE OF PRINT: Apr 07, 2011 9:21:07am - BY: rebekaho - FILE LOCATION: C:\Users\REBEKA-1.KPF\AppData\Local\Temp\AcPublish\_7848\SLP\_Details.dwg



**PORT OF TACOMA**

P.O. BOX 1837 TACOMA, WA 98401  
(253)383-5841

## DETAILS

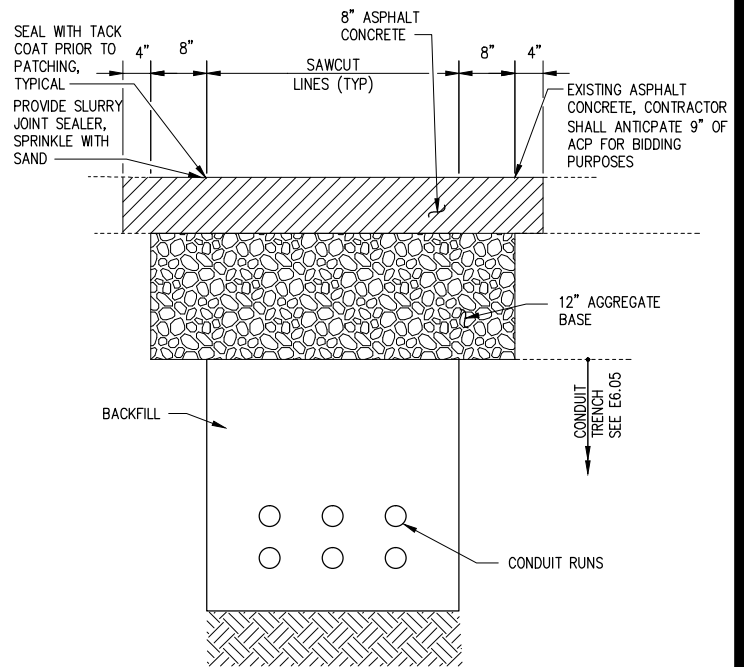
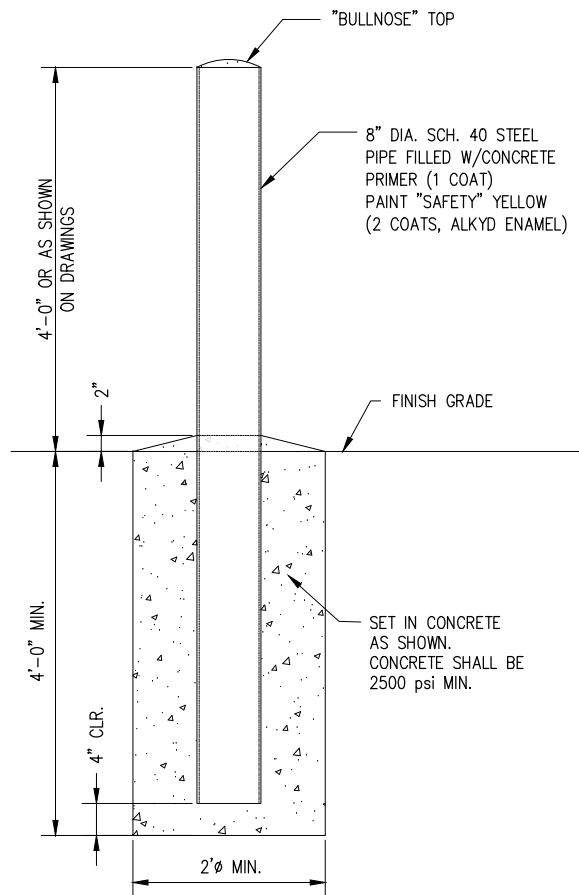
D1

STATE: WA  
COUNTY: PIERCE  
CITY/PORT: PORT OF TACOMA  
LOCATION: ALL LOCATIONS  
PURPOSE: EMERGENCY WARNING SYSTEM (OGT-7)

PROJECT NO: 069268  
SHEET: 10 OF: 12

DATE: 04/07/11

# 069268 PORTWIDE EMERGENCY WARNING SYSTEM (OGT-7)



## BOLLARD PROTECTION DETAIL

SCALE: 1" = 2'-0"



## CONDUIT TRENCH/PAVEMENT REPAIR DETAIL

SCALE: NTS



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### DETAILS

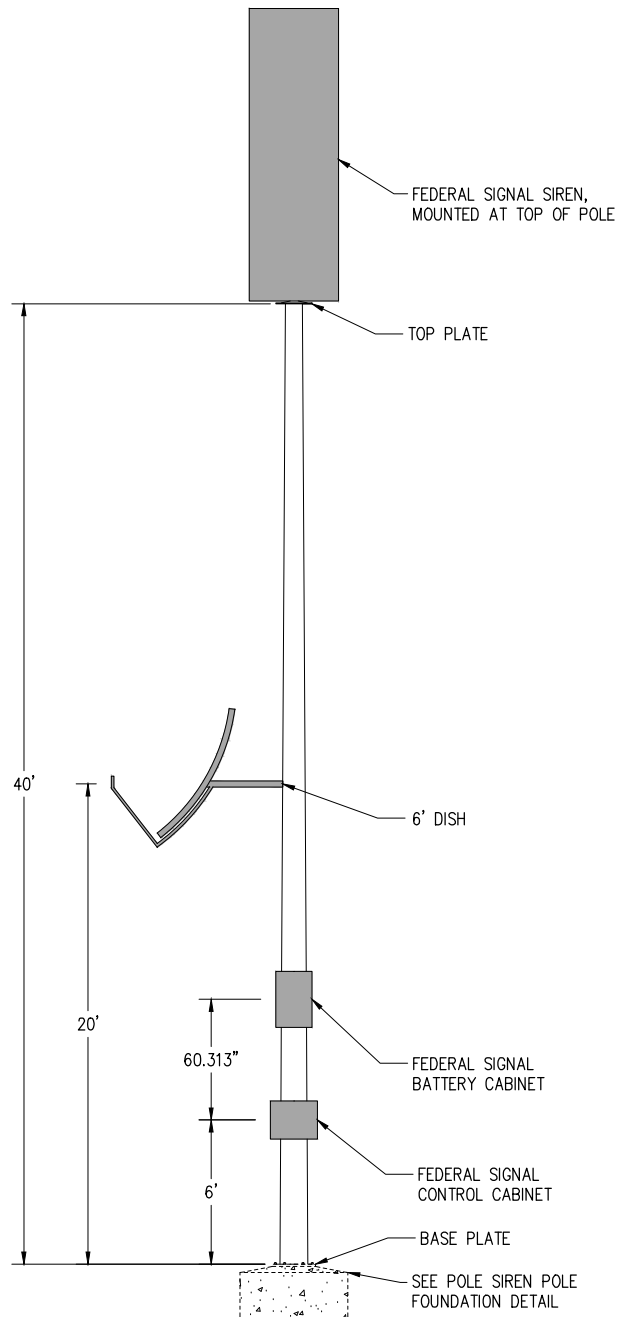
D2

STATE: WA  
 COUNTY: PIERCE  
 CITY/PORT: PORT OF TACOMA  
 LOCATION: ALL LOCATIONS  
 PURPOSE: EMERGENCY WARNING SYSTEM (OGT-7)

PROJECT NO: 069268  
 SHEET: 11 OF: 12

DATE: 04/07/11

# 069268 PORTWIDE EMERGENCY WARNING SYSTEM (OGT-7)



## SIREN POLE EQUIPMENT DETAIL

SCALE: NTS



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**PORT OF TACOMA**

P.O. BOX 1837 TACOMA, WA 98401  
(253)383-5841

### DETAILS

D3

STATE: WA  
 COUNTY: PIERCE  
 CITY/PORT: PORT OF TACOMA  
 LOCATION: ALL LOCATIONS  
 PURPOSE: EMERGENCY WARNING SYSTEM (OGT-7)

PROJECT NO: 069268

SHEET: 12 OF 12

DATE: 04/07/11