

# DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

BUILDING PERMITS DIVISION

## PERMIT

Permit Number: 091240

Please Read Application And Notes, if Any, Attached

This is to certify that GRIBIZIS WILLIAM/TBD  
has permission to install a backup diesel generator w/ a 5' x 8' pad  
AT <sup>517</sup> ~~508~~ PRESUMPCOT ST CL 415 B006001

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statutes of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of buildings and structures, and of the application on file in this department.

Apply to Public Works for street line and grade if nature of work requires such information.

Notification of inspection must be given and written permission procured before this building or part thereof is placed or other work is used-in. 2 HOURLY NOTICE IS REQUIRED.

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

PERMITS DIVISION  
FEB 11 2010  
CITY OF PORTLAND

OTHER REQUIRED APPROVALS

Fire Dept. CAPT. R. Hutchins  
Health Dept. \_\_\_\_\_  
Appeal Board \_\_\_\_\_  
Other \_\_\_\_\_  
Department Name

*[Signature]*  
Director - Building & Inspection Services

**PENALTY FOR REMOVING THIS CARD**

**City of Portland, Maine - Building or Use Permit Application**

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

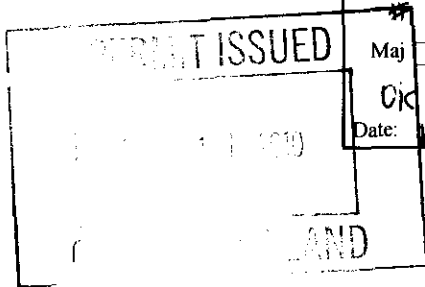
Permit No: 09-1240	Issue Date:	CBL: 415 B006001
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Location of Construction: 517 503 PRESUMPCOT ST	Owner Name: GRIBIZIS WILLIAM	Owner Address: 285 CLIFTON ST	Phone:
Business Name:	Contractor Name: TBD	Contractor Address:	Phone:
Lessee/Buyer's Name	Phone:	Permit Type: Generator	Zone: IM

Past Use: Telecommunications Tower	Proposed Use: Telecommunications Tower - install a backup diesel generator w/a 5' x 8' pad	Permit Fee: \$50.00	Cost of Work: \$2,500.00	CEO District: 4
Proposed Project Description: install a backup diesel generator w/a 5' x 8' pad		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied * See Conditions	INSPECTION: Use Group: <input checked="" type="checkbox"/> Type: IBC 2003	
		Signature:	Signature:	
		PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)		
		Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied		
		Signature: _____ Date: _____		

Permit Taken By: Ldobson	Date Applied For: 11/02/2009	<b>Zoning Approval</b>
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<p>1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</p> <p>2. Building permits do not include plumbing, septic or electrical work.</p> <p>3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..</p>	<p>Special Zone or Reviews</p> <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input checked="" type="checkbox"/> Site Plan Exemption # 09-0901 02050 Date: 12/11/09	<p>Zoning Appeal</p> <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date:	<p>Historic Preservation</p> <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date:
	<p>Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/></p> <p><i>OK w/conditions</i></p> <p><i>ABU</i></p>		



**CERTIFICATION**

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

**City of Portland, Maine - Building or Use Permit**

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 09-1240	Date Applied For: 11/02/2009	CBL: 415 B006001
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Location of Construction: 503 PRESUMPCOT ST	Owner Name: GRIBIZIS WILLIAM	Owner Address: 285 CLIFTON ST	Phone:
Business Name:	Contractor Name: TBD	Contractor Address:	Phone
Lessee/Buyer's Name	Phone:	Permit Type: Generator	

Proposed Use: Telecommunications Tower - install a backup diesel generator w/a 5' x 8' pad	Proposed Project Description: install a backup diesel generator w/a 5' x 8' pad
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<b>Dept:</b> Zoning	<b>Status:</b> Approved with Conditions	<b>Reviewer:</b> Ann Machado	<b>Approval Date:</b> 12/01/2009
<b>Note:</b> Section 14-252(a)(3) states the maximum permissible sound levels at 70 dBA between 7 AM & 10 PM and 55 dBA between 10 PM and 7 AM. Information shows at 23' it is 68 dBA and at the property line (64') the dBA is 51.32.			
1) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.			
<b>Dept:</b> Building	<b>Status:</b> Approved with Conditions	<b>Reviewer:</b> Tammy Munson	<b>Approval Date:</b> 02/05/2010
<b>Note:</b> put in hold basket - ok to issue once site plan exemption is granted.			
1) Separate permits are required for any electrical, plumbing, sprinkler, fire alarm or HVAC or exhaust systems. Separate plans may need to be submitted for approval as a part of this process.			
2) Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approval prior to work.			
<b>Dept:</b> Fire	<b>Status:</b> Approved with Conditions	<b>Reviewer:</b> Capt Keith Gautreau	<b>Approval Date:</b> 12/03/2009
<b>Note:</b>			
1) Install shall comply with all manufacture's specifications.			

<b>Comments:</b>
2/4/2010-amachado: Received approved siteplan exemption from planning. Put with permit.
11/3/2009-Ldobson: called black diamond will get site plan exemption to the office Lannie
11/6/2009-amachado: Spoke to someone at Black Diamond in the Gardiner office. He said that he would get me the information on the dBA level at the property lines. He will also email me an application for exemption from site plan.
12/1/2009-amachado: Received site plan exemption application and information on generator on 11/25/09. Gave site plan exemption to planning.
12/28/2009-tmm: in hold basket - ok to issue once site plan exemption is granted.

## BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY )

to schedule your inspections as agreed upon

Permits expire in 6 months, if the project is not started or ceases for 6 months.

The Owner or their designee is required to notify the inspections office for the following inspections and provide adequate notice. Notice must be called in 48-72 hours in advance in order to schedule an inspection:

By initializing at each inspection time, you are agreeing that you understand the inspection procedure and additional fees from a "Stop Work Order" and "Stop Work Order Release" will be incurred if the procedure is not followed as stated below.

A Pre-construction Meeting will take place upon receipt of your building permit.

- Footing/Building Location Inspection: Prior to pouring concrete or setting precast piers
- Re-Bar Schedule Inspection: Prior to pouring concrete
- Underground electrical or plumbing inspection prior to pouring concrete
- Final inspection required at completion of work.

Certificate of Occupancy is not required for certain projects. Your inspector can advise you if your project requires a Certificate of Occupancy. All projects DO require a final inspection.

**If any of the inspections do not occur, the project cannot go on to the next phase, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.**

**CERIFICATE OF OCCUPANICES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED.**

\_\_\_\_\_  
Signature of Applicant/Designee

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature of Inspections Official

\_\_\_\_\_  
Date



# General Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: <u>527 Presumpscot Rd. Portland, ME 04103</u>		
Total Square Footage of Proposed Structure/Area <u>40 Square Feet</u>	Square Footage of Lot <u>26,000 Sq. feet.</u>	Number of Stories <u>1</u>
Tax Assessor's Chart, Block & Lot Chart# Block# Lot#  <u>Tax Map 4115</u> <u>Block B</u> <u>Lot 6</u>	Applicant: <del>owner</del> , <u>Leasee</u> or <u>Buyer</u> Name <u>CHAD ROBERT C/O USCC</u> Address <u>PO Box 57</u> City, State & Zip <u>Portland, ME 04145</u>	Telephone:  <u>207-582-0056</u>
Lessee/DBA (If Applicable)	Owner (if different from Applicant) Name <u>USCC</u> Address <u>PO Box 31339</u> City, State & Zip <u>Chicago, IL 60631</u>	Cost Of Work: \$ <u>25000</u> C of O Fee: \$ _____ Total Fee: \$ <u>270</u>
Current legal use (i.e. single family) <u>TELECOMMUNICATIONS</u> Number of Residential Units <u>0</u> If vacant, what was the previous use? <u>N/A</u> Proposed Specific use: <u>TELECOMMUNICATIONS</u> Is property part of a subdivision? <u>No</u> If yes, please name _____ Project description: <u>USCC Proposed To Install A Backup Diesel Generator &amp; 5' x 8' Generator Foundation Pad.</u>		
Contractor's name: <u>TBD</u>		
Address: _____		
City, State & Zip _____		Telephone: _____
Who should we contact when the permit is ready: _____		Telephone: _____
Mailing address: _____		

MAIL

Please submit all of the information outlined on the applicable Checklist. Failure to do so will result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at [www.portlandmaine.gov](http://www.portlandmaine.gov), or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature: [Signature] Date: 10/23/09

This is not a permit; you may not commence ANY work until the permit is issued

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Dept. of Building Inspections  
City of Portland Maine

Schedule Inspection | Add | Find | Print Permit | Print C of O | Print Insp | Invoicing | Taxes Due | Close

Prmt | Text93 | 42730 | Constr Type | Num1 | 91240

Permit Nbr | 09-1240 | Location of Construction | 503 | PRESUMPCOT ST | Appl. Date | 11/02/2009  
 Status | Hold | Permit Type | Generator | Issue Date |  
 CBL | 415 B006001 | District Nbr | 4 | Estimated Cost | \$2,500.00 | Date Closed |

Comment Date	Comment	Add	Delete	Save	Print
12/28/2009	in hold basket - ok to issue once site plan exemption is granted.				
	Name   tmm   Follow Up Date     Completed   <input type="checkbox"/>				
12/01/2009	Received site plan exemption application and information on generator on 11/25/09. Gave site plan exemption to planning.				
	Name   amachado   Follow Up Date     Completed   <input type="checkbox"/>				
11/06/2009	Spoke to someone at Black Diamond in the Gardiner office. He said that he would get me the information on the dBA level at the property lines. He will also email me an application for exemption from site plan.				
	Name   amachado   Follow Up Date     Completed   <input type="checkbox"/>				
11/03/2009	called black diamond will get site plan exemption to the office Lannie				
	Name   Ldobson   Follow Up Date     Completed   <input type="checkbox"/>				

CreatedBy | Ldobson | CreateDate | 11/03/2009 | ModBy | tmm | ModDate | 12/28/2009  
 Time | 3:08 PM | Time | 9:48 AM

## **Ann Machado - Backup Generator for USCC**

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**From:** "Chad Hebert" <cjhebert@blckdiamond.net>  
**To:** <amachado@portlandmaine.gov>  
**Date:** 11/12/2009 8:42 AM  
**Subject:** Backup Generator for USCC

Good morning, I submitted a BP application last week and need to get you information on the desibal levels for the proposed Backup Generator going on Presumpscot Road in Portland. Im am still waiting for this information. I will also send in the Application for Exemption from Site Plan Review form with the generator information, hopefully it happens soon. If you have any questions/concerns please feel free to give me a call.

Thanks

Chad Hebert  
Black Diamond Consultants agent for USCC  
207-582-0056

**Ann Machado - BP information on USCC Diesel Generator**

**From:** "Chad Hebert" <cjhebert@blkdiamond.net>  
**To:** <amachado@portlandmaine.gov>  
**Date:** 11/25/2009 1:10 PM  
**Subject:** BP information on USCC Diesel Generator  
**CC:** "Pam Chambers" <PRChambers@BLCKDiamond.net>

Hello Ann, Sorry it took so long for me to get the information to you, but please find attached the generator specs and exemption form as well as a drawing showing decibal levels. This is for the USCC back up generator that the BP application is already submitted. Let me know if you need anything else.

Thanks

Chad Hebert  
207-582-0056

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**Dept. of Building Inspections  
City of Portland Maine**



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PAGE 02/02



Application for Exemption from Site Plan Review
Portland, Maine
Department of Planning and Urban Development, Planning Division and Planning Board
Dept. of Building Inspections
City of Portland Maine

PROJECT NAME: VSEC Generator Placement
PROJECT ADDRESS: 522 Presumpscot Rd. Portland, ME 04103 (503 Presumpscot)
PROJECT DESCRIPTION: (Please Attach Sketch/Plan of Proposal/Development)
VSEC Request to install a Diesel Generator + 2' x 8' concrete foundation pad.

CHART/BLOCK/LOT: 415 / B / 6

CONTACT INFORMATION:

OWNER/APPLICANT
Name: VSEC
Address: 82 Bux 21339
Whitman, ME 04621
Zip Code:
Work #:
Cell #: 207-636-6568
Fax #:
Home #:
E-mail:

CONSULTANT/AGENT
Name: Brian Herbert
Address: P22 Box 27
Portland, ME 04131
Zip Code:
Work #: 207-582-0056
Cell #: 203-847-5315
Fax #: 207-582-4098
Home #:
E-mail: bherbert@blackdiamond.com

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City of Portland Maine

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Criteria for Exemptions:
(See Section 14-523 (4) on page 2 of this application)

Table with 3 columns: Question, Applicant's Assessment (Y/yes, N/no, N/A), and Planning Division Use Only. Contains 10 questions regarding existing structures, new buildings, footprint, curbs, ADA, parking, traffic, stormwater, and utilities.

Planning Division Use Only
Exemption Granted X with condition Partial Exemption Exemption Denied
The applicant shall obtain all required building permits from Portland's Inspection Division prior to the start of work.
Planner's Signature Barbara Brinkley Date Dec 9, 2009

**Planning Barbara Barhydt**

December 9, 2009

The request for an exemption from site plan review of an emergency generator for the communication tower is granted with one condition of approval:

1. The applicant shall obtain all required building permits from Portland's Inspection Division prior to the start of any work.

- b. Impulse sounds are defined as sound events characterized by brief excursions of sound pressure, each with a duration of less than one (1) second.
2. *Measurement:* Sound levels shall be measured with a sound level meter with a frequency weighting network manufactured according to standards prescribed by the American National Standards Institute (ANSI) or its successor body. Measurements shall be made at all major lot lines of the site, at a height of at least four (4) feet above the ground surface. In measuring sound levels under this section, sounds with a continuous duration of less than sixty (60) seconds shall be measured by the maximum reading on a sound level meter set to the A weighted scale and the fast meter response (L maxfast). Sounds with a continuous duration of sixty (60) seconds or more shall be measured on the basis of the energy average sound level over a period of sixty (60) seconds (LEQ<sub>1</sub>).
3. *Maximum permissible sound levels:* The maximum permissible sound level of any continuous, regular or frequent source of sound produced by an activity shall be as follows:
  - a. Seventy (70) dBA between the hours of 7:00 a.m. and 10:00 p.m.
  - b. Fifty-five (55) dBA between the hours of 10:00 p.m. and 7:00 a.m., as measured at or within the boundaries of any residential zone.

In addition to the sound level standards established above, all uses located within this zone shall employ best practicable sound abatement techniques to prevent tonal sounds and impulse sounds or, if such tonal and impulse sounds cannot be prevented, to minimize the impact of such sounds in residential zones.

4. *Exemptions:*

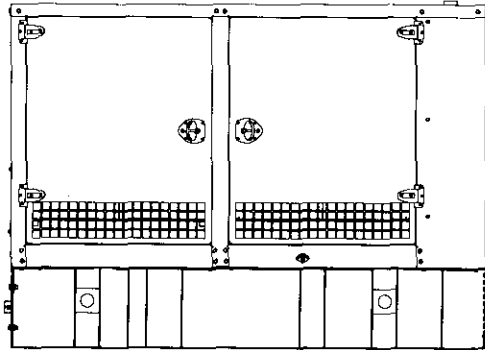
## Industrial Generator Set Accessories

# KOHLER POWER SYSTEMS

### Weather/Sound Enclosure and Subbase Fuel Tank Package

**ISO 9001**  
KOHLER  
POWER SYSTEMS  
NATIONALLY REGISTERED

Applicable to the following:  
**20-60REOZJC**  
**230-275REOZJE**



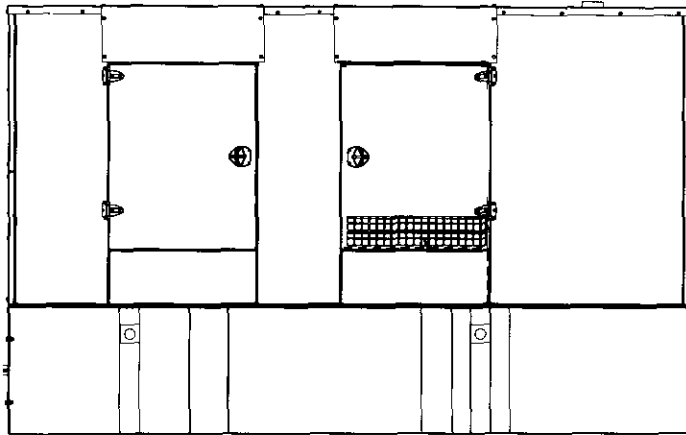
**20-60REOZJC**

### Weather Enclosure Standard Features

- Internal-mounted critical silencer and flexible exhaust connector.
- Lift base or tank-mounted, steel construction with hinged doors.
- Fade-, scratch-, and corrosion-resistant Kohler® cream beige powder-baked finish.
- Lockable, flush-mounted door latches.
- Vertical air inlet and outlet hoods with 90 degree angles to redirect air and reduce noise.
- High wind bracing, 241 kph (150 mph). Available with 20-60REOZJC models only.

### Sound Enclosure Standard Features

- Includes all of the weather enclosure features with the addition of acoustic insulation material.
- Lift base or tank-mounted, steel or aluminum construction with hinged doors. Aluminum enclosures are recommended for high humidity and/or high salt/coastal regions.
- Acoustic insulation that meets UL 94 HF1 flammability classification and repels moisture absorption.
- Sound attenuated enclosure that uses up to 25 mm (1 in.) of acoustic insulation, acoustic-lined air inlet hoods, and acoustic-lined air discharge hood.



**230-275REOZJE**

### Subbase Fuel Tank Features

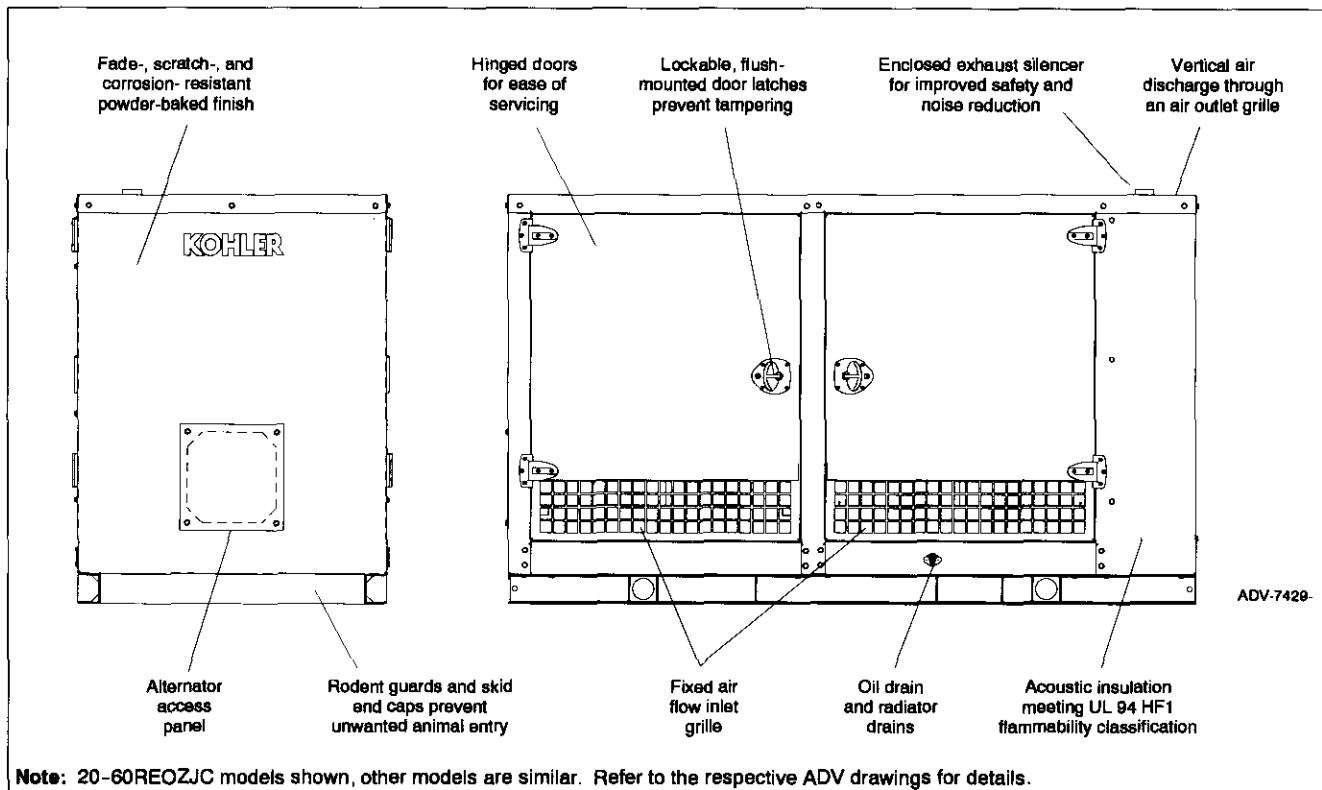
- The above-ground rectangular secondary containment tank mounts directly to the generator set, below the generator set skid (subbase).
- Both the inner and outer tanks have emergency relief vents.
- Flexible fuel lines are provided with subbase fuel tank selection.
- The secondary containment generator set base tank meets UL 142 tank requirements. The inner (primary) tank is sealed inside the outer (secondary) tank. The outer tank contains the fuel if the inner tank leaks or ruptures.

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NOV 25 2009

Dept. of Building Inspections  
City of Portland Maine

## Weather and Sound Enclosure



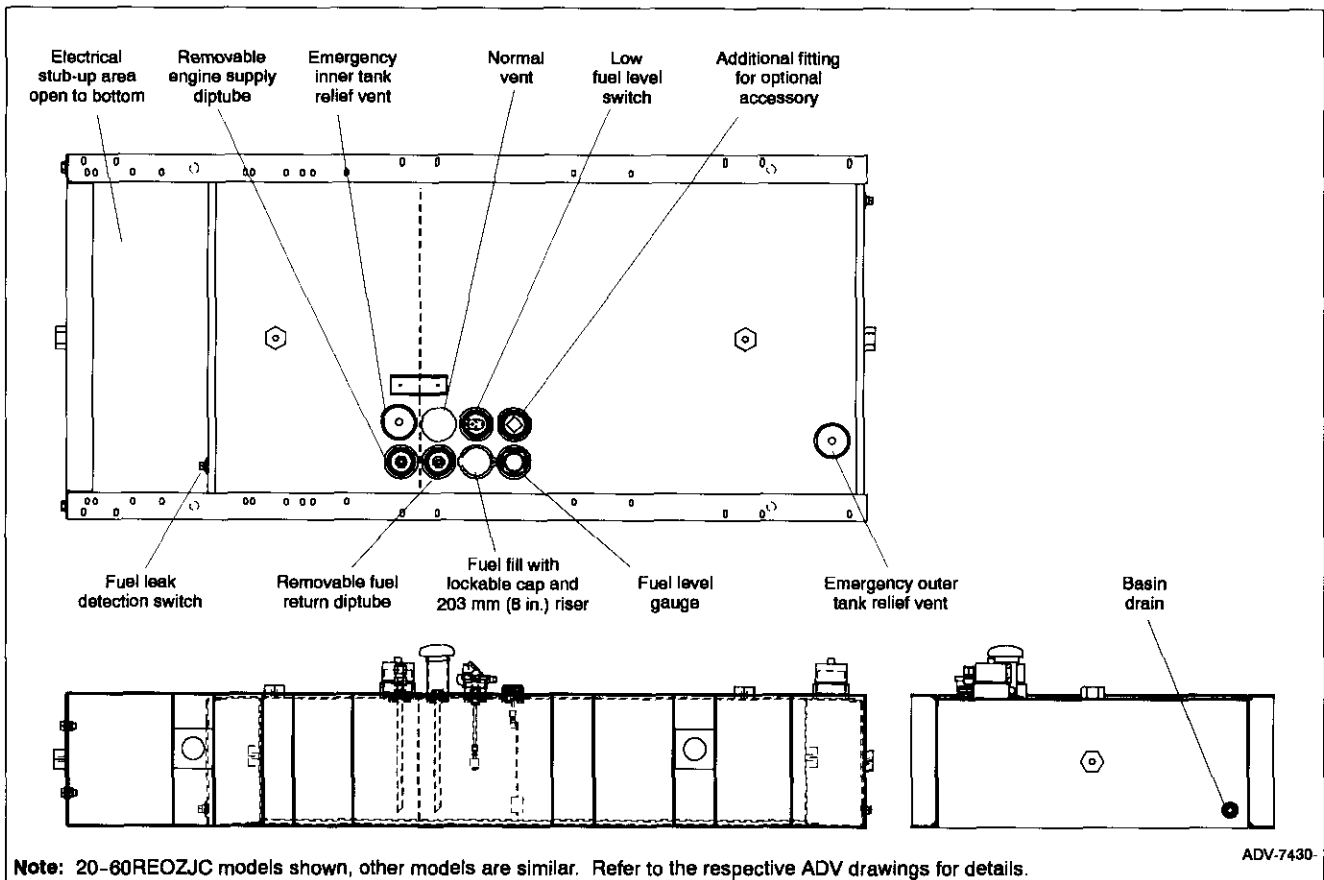
### Enclosure Features

- Available in steel (14 gauge) formed panel, solid construction. Preassembled package offering corrosion resistant, dent resilient structure mounting directly to lift base or fuel tank.
- Powder-baked paint. Superior finish, durability, and appearance.
- Internal critical exhaust silencer offering maximum component life and operator safety.
- Interchangeable modular panel construction. Allows complete serviceability or replacement without compromising enclosure design.
- Cooling/combustion air intake with a horizontal air inlet. Sized for maximum cooling airflow.
- Service access. Multi-personnel doors for easy access to generator set control and servicing of the fuel fill, fuel gauge, oil fill, and battery.
- Cooling air discharge. Weather protective design featuring a vertical air discharge outlet grille. Redirects cooling air up and above enclosure to reduce ambient noise.

### Additional Sound Enclosure Features

- Available in steel (14 gauge) or aluminum 3.2 mm (0.125 in.) formed panel, solid construction.
- Attenuated design. Acoustic insulation UL 94 HF1 listed for flame resistance offering up to 25 mm (1 in.) mechanically restrained acoustic insulation.
- Cooling air discharge. The sound enclosures include acoustic insulation with urethane film.

## Subbase Fuel Tank



### Standard Subbase Fuel Tank Features

- **Extended operation.** Usable tank capacity offers full load standby operation of up to 48 hours.
- **UL listed.** Secondary containment generator set base tank meeting UL 142 requirements.
- **NFPA compliant.** Designed to comply with the installation standards of NFPA 30 and NFPA 37.
- **Integral external lift lugs.** Enables crane with spreader-bar lifting of the complete package (empty tank, mounted generator set, and enclosure) to ensure safety.
- **Emergency pressure relief vents.** Vents ensure adequate venting of the inner and outer tank under extreme pressure and/or emergency conditions.
- **Normal vent with cap.** Vent is raised above lockable fuel fill.
- **Low fuel level switch.** Annunciates a 50% low fuel level condition at generator set control.
- **Leak detection switch.** Annunciates a contained primary tank fuel leak condition at generator set control.
- **Electrical stub-up.**

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**State Code Subbase Fuel Tank Options  
(230-275REOZJE models only)**

**Bottom Clearance/Coating**

- I-beams, provides 106 mm (4.2 in.) of ground clearance

**Fuel In Basin Options**

- Fuel in basin switch, Florida Dept. of Environmental Protection (FDEP) approved

**Fuel Fill Options**

Fill pipe extension to within 152 mm (6 in.) of bottom of fuel tank.

- 18.9 L (5 gallon) spill containment with 95% shutoff
- 18.9 L (5 gallon) spill containment
- 18.9 L (5 gallon) spill containment fill to within 152 mm (6 in.) of bottom of fuel tank
- 26.5 L (7 gallon) spill containment, Florida Dept. of Environmental Protection (FDEP) approved
- 26.5 L (7 gallon) spill containment with 95% shutoff, Florida Dept. of Environmental Protection (FDEP) approved

**Fuel Supply Options**

- Fire safety valve (installed on fuel supply line)
- Ball valve (installed on fuel supply line)

**High Fuel Level Switch**

- High fuel level switch
- High fuel level switch, Florida Dept. of Environmental Protection (FDEP) approved

**Normal Vent Options**

- 3.7 m (12 ft.) above grade (without spill containment)
- 3.7 m (12 ft.) above grade (with spill containment)

**Tank Marking Options**

- Decal, Combustible Liquids - Keep Fire Away (qty. 2)
- Decal, NFPA 704 identification (qty. 2)
- Decal, tank number and safe fuel fill height (qty. 2)
- Decal, tank number and safe fuel fill height, NFPA 704 identification

## Enclosure and Subbase Fuel Tank Specifications (20-60REOZJC Models)

Fuel Tank Capacity, L (gal.)	Est. Fuel Supply Hours at 60 Hz w/Full Load	Enclosure and Subbase Fuel Tank					Fuel Tank Height, mm (in.)	Sound Enclosure, Sound Pressure at 7 m (23 ft.), dB(A)
		Max. Dimensions, mm (in.)			Weight, kg (lb.)			
		Length	Width	Height	With Steel Enclosure	With Aluminum Enclosure		
<b>20REOZJC</b>								
Lifting Base	0	2320 (91.3)	1077 (42.4)	1384 (54.6)	943 (2080)	830 (1830)	100 (4)	68
254 (67)	24			1513 (59.6)	1272 (2806)*	1159 (2556)*	229 (9)	
454 (100)	36			1614 (63.6)	1321 (2913)*	1208 (2663)*	330 (13)	
681 (150)	48			1767 (69.6)	1393 (3073)*	1280 (2823)*	483 (19)	
<b>30REOZJC</b>								
Lifting Base	0	2320 (91.3)	1077 (42.4)	1384 (54.6)	1007 (2220)	894 (1970)	100 (4)	68
254 (67)	24			1513 (59.6)	1336 (2946)*	1223 (2696)*	229 (9)	
454 (100)	36			1614 (63.6)	1385 (3053)*	1271 (2803)*	330 (13)	
681 (150)	48			1767 (69.6)	1457 (3213)*	1344 (2963)*	483 (19)	
<b>40REOZJC</b>								
Lifting Base	0	2320 (91.3)	1077 (42.4)	1384 (54.6)	966 (2130)	853 (1880)	100 (4)	68
454 (100)	24			1614 (63.6)	1344 (2963)*	1231 (2713)*	330 (13)	
681 (150)	36			1767 (69.6)	1416 (3123)*	1303 (2873)*	483 (19)	
909 (200)	48			1919 (75.6)	1489 (3283)*	1376 (3033)*	635 (25)	
<b>50REOZJC</b>								
Lifting Base	0	2320 (91.3)	1077 (42.4)	1384 (54.6)	1027 (2265)	914 (2015)	100 (4)	68
454 (100)	24			1614 (63.6)	1405 (3098)*	1292 (2848)*	330 (13)	
681 (150)	36			1767 (69.6)	1477 (3258)*	1364 (3008)*	483 (19)	
909 (200)	48			1919 (75.6)	1550 (3418)*	1437 (3168)*	635 (25)	
<b>60REOZJC</b>								
Lifting Base	0	2320 (91.3)	1077 (42.4)	1384 (54.6)	1164 (2566)	1051 (2316)	100 (4)	68
545 (120)	24			1665 (65.6)	1566 (3452)*	1452 (3202)*	381 (15)	
909 (200)	36			1919 (75.6)	1687 (3719)*	1574 (3469)*	635 (25)	
1091 (240)	48			2021 (79.6)	1736 (3826)*	1622 (3576)*	737 (29)	

**Note:** Refer to the respective ADV drawings for details.

\* Weight includes the generator set (wet), enclosure, silencer, and tank (no fuel).

The generator set weight represents using the largest alternator option.

The enclosure weight is with acoustic insulation added.



## Enclosure and Subbase Fuel Tank Specifications (230-275REOZJE Models)

Fuel Tank Capacity, L (gal.)	Est. Fuel Supply Hours at 60 Hz w/Full Load	Enclosure and Subbase Fuel Tank					Fuel Tank Height, mm (in.)	Sound Enclosure, Sound Pressure at 7 m (23 ft.), dB(A) with Full Load
		Max. Dimensions, mm (in.)			Weight, kg (lb.)			
		Length	Width	Height	With Steel Enclosure	With Aluminum Enclosure		
<b>230REOZJE</b>								
Lifting Base	0	4100 (161.4)	1300 (51.2)	1989 (78.4)	2654 (5850)	2540 (5600)	200 (8)	75
1786 (472)	29			2551(100.4)	3561 (7850)*	3447 (7600)*	762 (30)	
<b>230REOZJE with State Code Fuel Tank†</b>								
3573 (944)	59	5325 (209.7)	1300 (51.2)	2809(110.6)	4504 (9930)*	4391 (9680)*	1020 (40)	75
<b>250REOZJE</b>								
Lifting Base	0	4100 (161.4)	1300 (51.2)	1989 (78.4)	2699 (5950)	2585 (5700)	200 (8)	75
1786 (472)	27			2551(100.4)	3606 (7950)*	3493 (7700)*	762 (30)	
<b>250REOZJE with State Code Fuel Tank†</b>								
3573 (944)	54	5325 (209.7)	1300 (51.2)	2809(110.6)	4550 (10030)*	4436 (9780)*	1020 (40)	75
<b>275REOZJE</b>								
Lifting Base	0	4100 (161.4)	1300 (51.2)	1989 (78.4)	2835 (6250)	2722 (6000)	200 (8)	75
1786 (472)	24			2551(100.4)	3742 (8250)*	3629 (8000)*	762 (30)	
<b>275REOZJE with State Code Fuel Tank†</b>								
3573 (944)	48	5325 (209.7)	1300 (51.2)	2809(110.6)	4686 (10330)*	4572 (10080)*	1020 (40)	75

**Note:** Refer to the respective ADV drawings for details.

\* Weight includes the generator set (wet), enclosure, silencer, and tank (no fuel).

† State code fuel tank specifications (height and weight) include I-beam option.

The generator set weight represents using the largest alternator option.

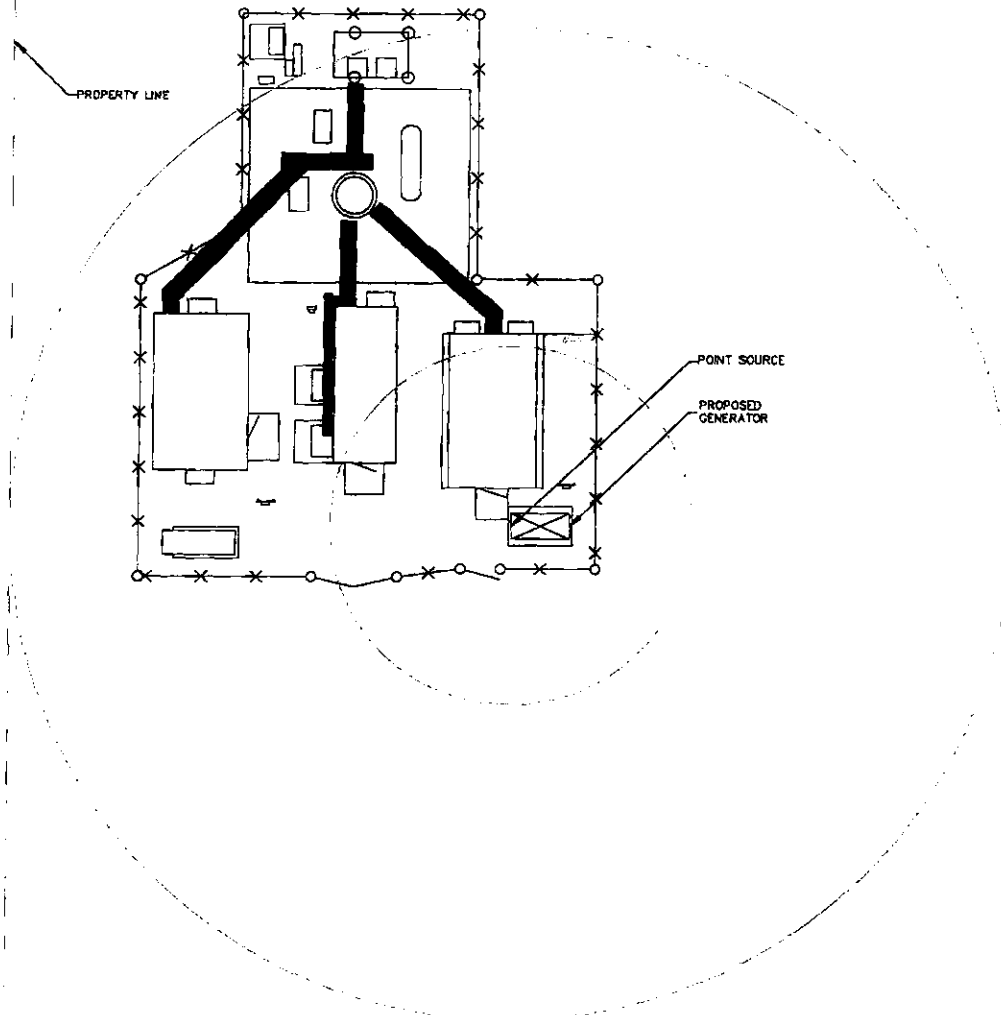
The enclosure weight is with acoustic insulation added.

**DISTRIBUTED BY:**

Availability is subject to change without notice. Kohler Co. reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever. Contact your local Kohler® generator set distributor for availability.

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PROPERTY OWNER  
WILLIAM  
GRIBZIS





LEGEND		
	88 dBA	23'
	51.32 dBA	84'

FIGURE 1: dBA TO FEET RATIO DIAGRAM  
TELECOMMUNICATIONS FACILITY  
PRESUMPCOT STREET  
PORTLAND, MAINE



PRESUMPCOT STREET

N. 00°27'21" W  
19.59' 31.10'

NOW OR FORMERLY  
**GRIEZIS  
WILLIAM**  
CCRD 8880-121

EXISTING ACCESS  
CCRD 24735-177

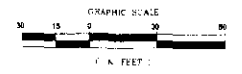
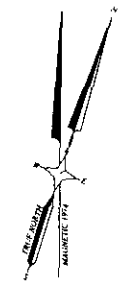
EXISTING LEASE AREA  
CCRD 24735-177

EXISTING TOWER  
N 43° 21' 55.55"  
W 70° 15' 30.78"

NOW OR FORMERLY  
**GRIEZIS  
WILLIAM**  
CCRD 25407-332

NOW OR FORMERLY  
**CANADIAN NATIONAL  
RAILROAD**

NOW OR FORMERLY  
**REAL ESTATE HOLDINGS, LLC.**  
CCRD 25903-27



LINE TABLE		
LINE	LENGTH	BEARING
L1	39.46	S 61°36'17" E
L2	16.70	S 05°57'09" E
L3	28.39	S 61°36'17" E
L4	31.23	S 29°34'26" W
L5	37.02	N 60°53'07" W
L6	16.19	S 28°23'43" W
L7	38.02	N 61°36'17" W
L8	17.46	N 30°24'36" E
L9	8.12	N 12°37'49" E
L10	35.47	N 28°23'39" E
L11	17.00	S 28°23'43" W
L12	13.23	N 28°23'33" E

**NOTES:**

1. Site Name: North Portland
2. Site Number: 853337
3. Site Address: 287 Presumpcot Street, Portland, ME 04103
4. Owner: AT&T Wireless
5. Applicant: U.S. Cellular and Black Diamond Consultants, Inc. 152 Bow 17, 3, 2 Upper Street, Gardiner, Maine 04845, 207-582-2026
6. Title Reference: Map A, Page 9-0
7. Deed Reference: Book 25407, Page 122
8. Vertical Datum: National Geodetic Service Datum of 1988, Mean Sea Level
9. Center of Swinging Tower: Latitude is 43° 41' 16.33" (NAD 83) Longitude is 70° 5' 30.78" (NAD 83)
10. Questions: Magnetic North: 974

**SURVEYOR'S NOTES:**

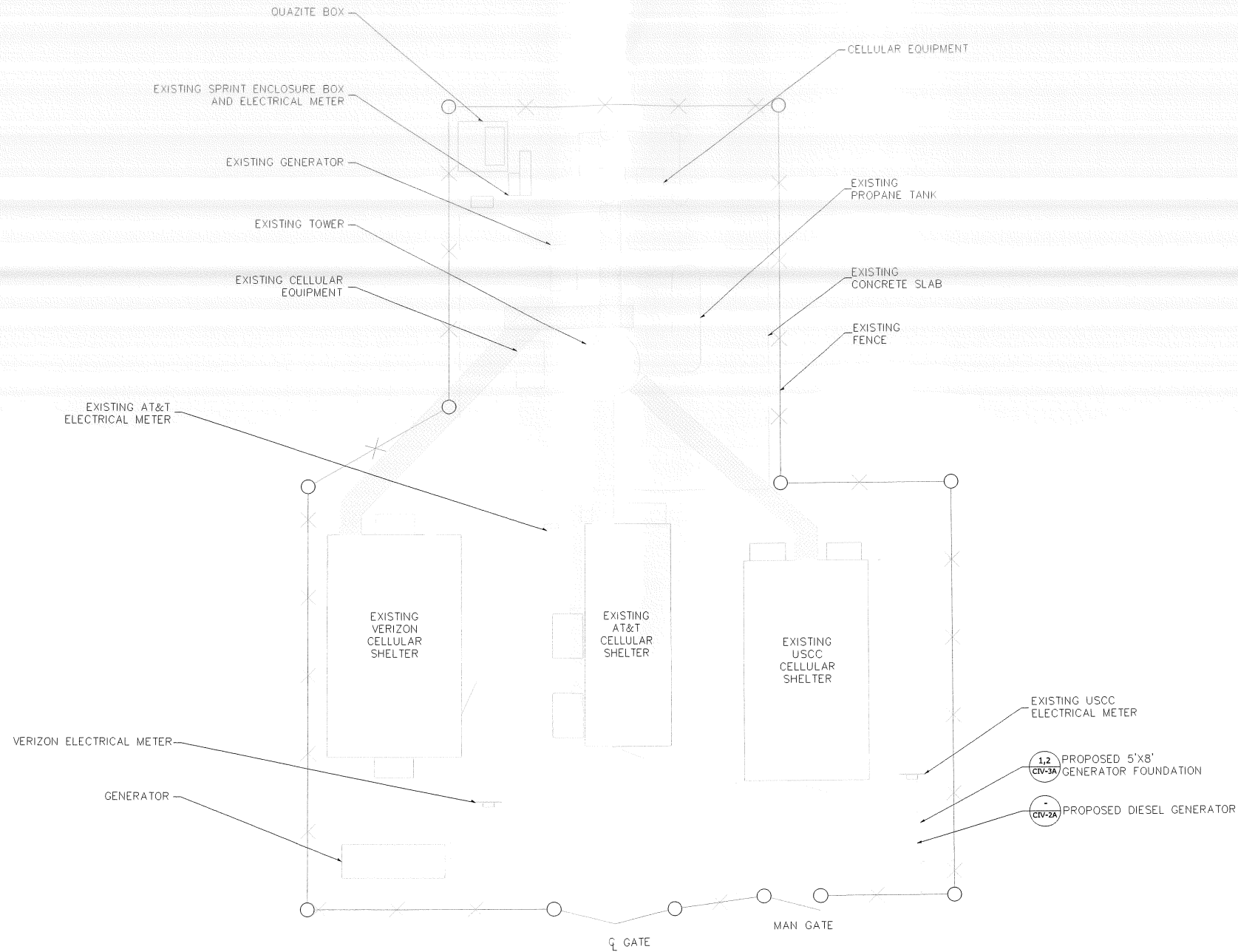
This is not a Standard Boundary Survey as no sea research was performed per client request. Boundaries shown on this plan have been compiled from tax maps and face deeds and are adjacent property lines.

All bearings are Magnetic North, derived from a compass reading.

\_\_\_\_\_  
Forward M. Lawrence PLS 2-89 DATE



PLOT PLAN  
U.S. Cellular  
**BLACK DIAMOND  
CONSULTANTS INC**

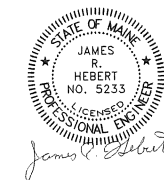


NOTES:

1. AS BUILT SITE INFORMATION COMPILED ON 01 JUNE 2009.
2. CONTRACTOR SHALL VERIFY EXISTING BURIED UTILITIES PRIOR TO EXCAVATION. CONTRACTOR SHALL COORDINATE CONDUIT ROUTING WITH LOCAL UTILITY COMPANIES AND USCC PROJECT MANAGER OR DESIGNEE. UTILITY CONDUIT SHALL BE FIELD ROUTED IN A MANNER TO AVOID TRENCHING IN AREAS OF EXISTING BURIED UTILITIES. CONTRACTOR SHALL PROVIDE LOCATION OF CONDUIT INSTALLATION TO USCC PROJECT MANAGER OR DESIGNEE. DIG SAFE UNDERGROUND SERVICE ALERT: 1-888-DIG-SAFE (1-888-344-7233).
3. ALL FIELD MEASUREMENTS OF EXISTING STRUCTURE/COMPONENTS ARE APPROXIMATE.
4. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VERIFY CONDUCTOR SIZE FROM LOCAL UTILITY TO EXISTING METER BANK. CONTRACTOR SHALL VALIDATE ADEQUATE CAPACITY AVAILABLE AT METER BANK PRIOR TO ADDING NEW LOADS.
5. 3 FEET OF CLEARANCE AROUND A GENERATOR IS REQUIRED FOR WORKING SPACE.

COMPOUND LAYOUT PLAN

SCALE: NTS



COMPOUND LAYOUT PLAN  
PROPOSED GENERATOR LOCATION  
U.S. Cellular



DRAWING NUMBER CIV-1A-1

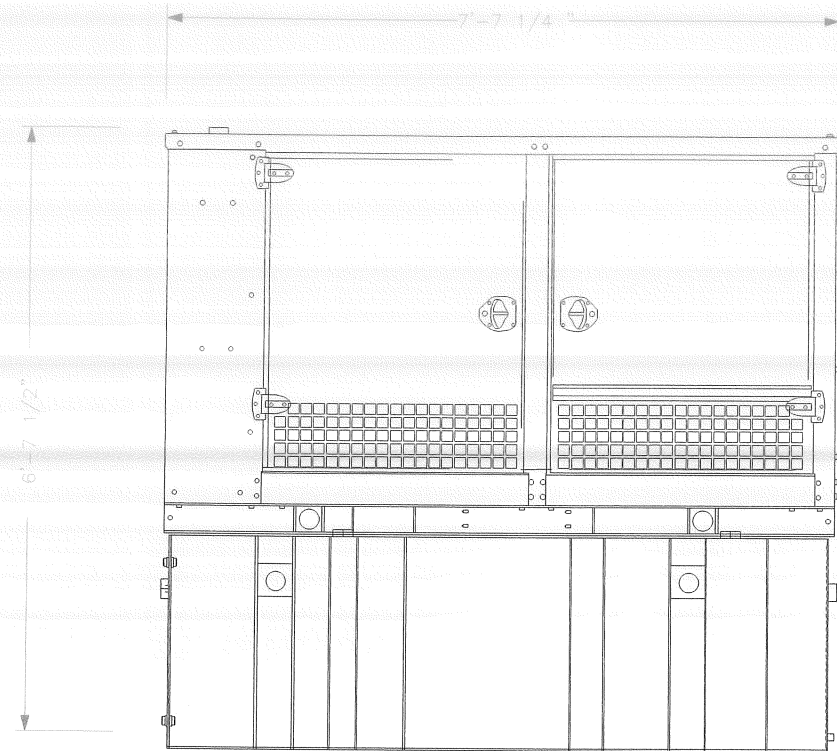
BDC: P/DRAFTING/BDC/USCC-121/CIV-1A-1

Classification: UNCLASSIFIED  
Quality Category: NON-Q  
SITE NAME: NORTH PORTLAND  
SITE NUMBER: 853337

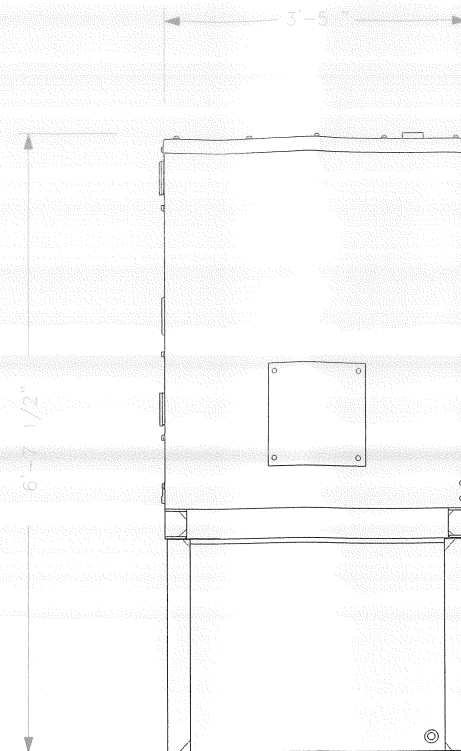
REV	DATE	BY	CHK'D	REV'D	APP'D	REV	DATE	BY	CHK'D	REV'D	APP'D
1	10-30-09	MJT	AMC	JRM	RFH	0	09-02-09	MJT	AMC	JRM	RFH

REVISION NOTES: CHANGED DIESEL GENERATOR LOCATION  
REVISION NOTES: ORIGINAL ISSUE

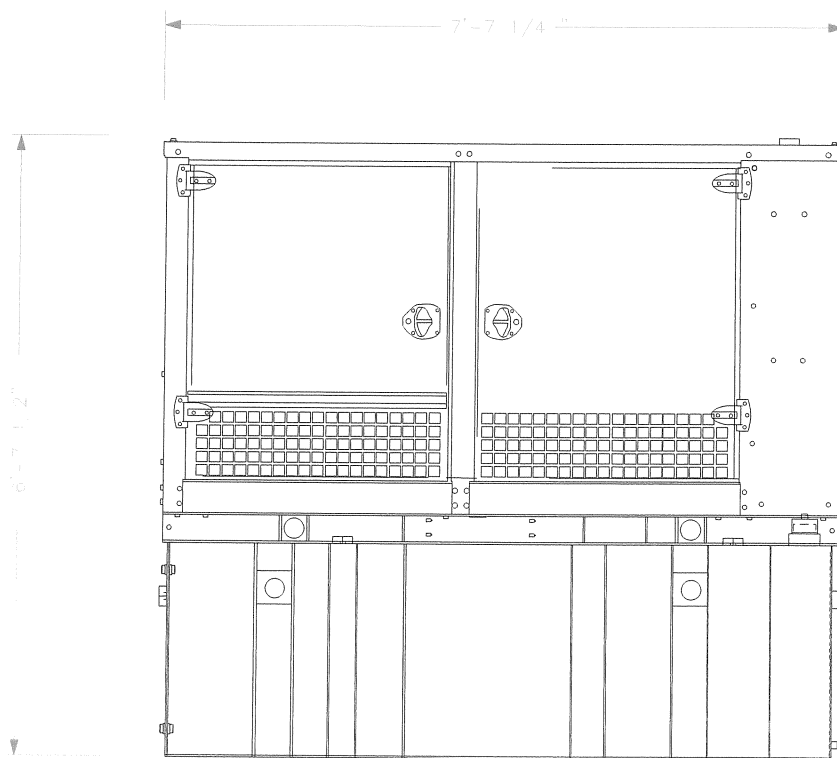
BDC PROJECT(S)	BDC PROPOSAL(S)
USCC-121	N/A
BDC JOB ORDER(S)	CLIENT DATA
09-024	SITE NAME: NORTH PORTLAND SITE NUMBER: 853337



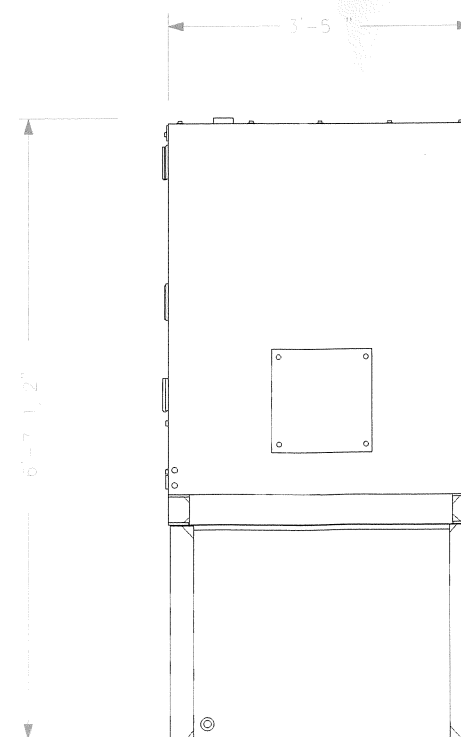
**EXTERIOR ELEVATION "A"**  
SCALE: NTS



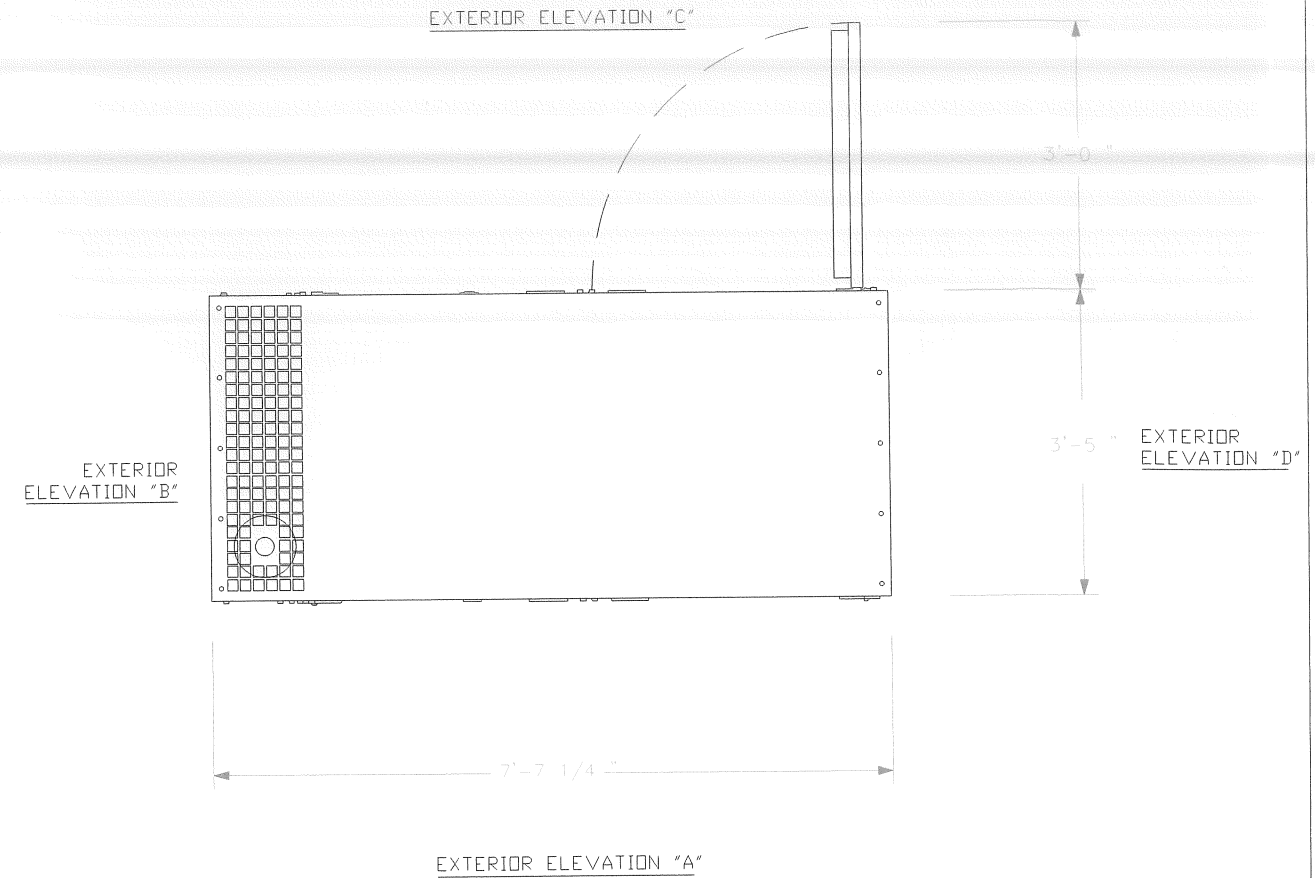
**EXTERIOR ELEVATION "B"**  
SCALE: NTS



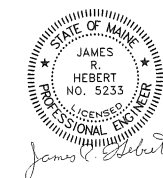
**EXTERIOR ELEVATION "C"**  
SCALE: NTS



**EXTERIOR ELEVATION "D"**  
SCALE: NTS



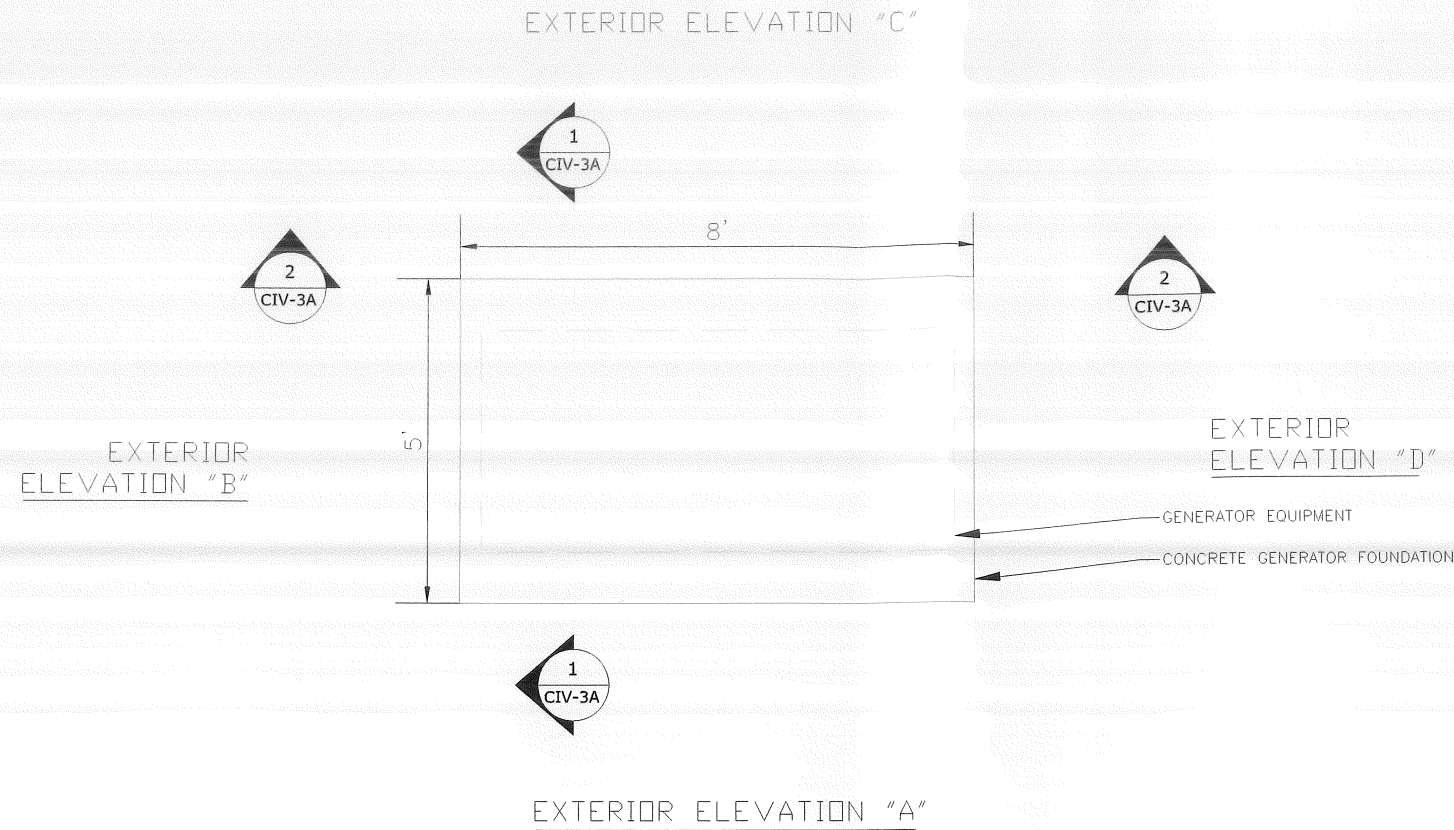
NOTES:  
1. REFERENCE KOHLER DRAWINGS FOR COMPLETE INSTALLATION AND BILL OF MATERIAL INFORMATION.



DIESEL GENERATOR  
EQUIPMENT ELEVATIONS  
U.S.Cellular

**BLACK DIAMOND  
CONSULTANTS INC**

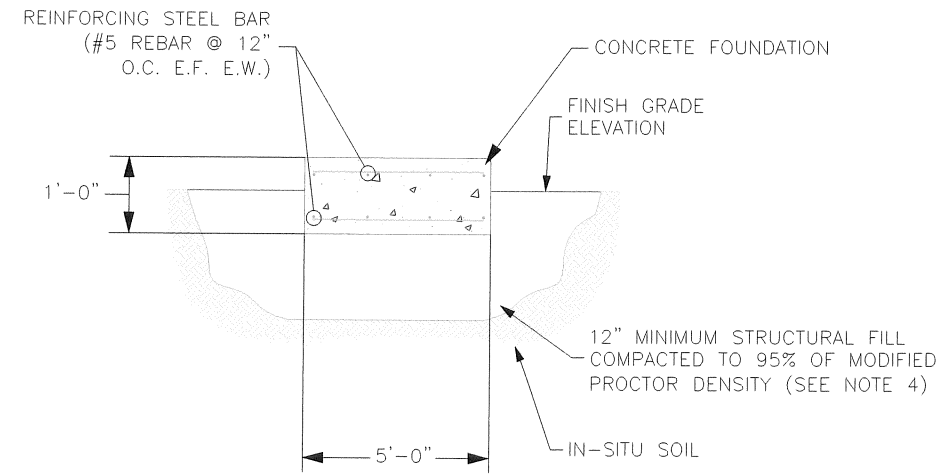
REV	DATE	BY	CHK'D	REV'D	APP'D	BDC PROJECT(S)	BDC PROPOSAL(S)
0	8-02-09	MJT	AMC	JRH	RFH	USCC-121	N/A
REVISION NOTES ORIGINAL ISSUE						BDC JOB ORDER(S)	CLIENT DATA
						09-024	SITE NAME: NORTH PORTLAND SITE NUMBER: 853337



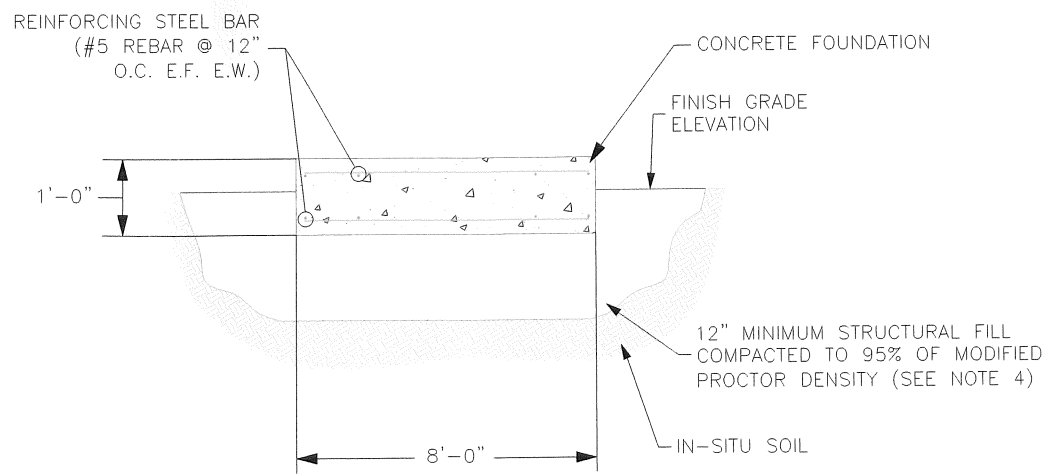
**CONCRETE GENERATOR FOUNDATION PLAN VIEW**  
SCALE: NTS

- NOTES:
- CONCRETE
    - ALL CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED IN ACCORDANCE WITH THE LATEST CODES AND SPECIFICATIONS OF THE AMERICAN CONCRETE INSTITUTE (ACI 318) "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE."
    - CONCRETE SHALL HAVE A SPECIFIED COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
  - REINFORCING STEEL
    - REINFORCING STEEL SHALL BE DEFORMED BILLET STEEL CONFORMING TO ASTM A615 GRADE 60.
    - REINFORCING STEEL SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH ACI 315-92, "DETAILS AND DETAILING CONCRETE REINFORCEMENT."
  - CONCRETE PROTECTION FOR REINFORCEMENT A MINIMUM CLEAR DISTANCE BETWEEN FACE OF CONCRETE AND REINFORCING STEEL SHALL BE:
    - WHERE CONCRETE IS PLACED AGAINST EARTH: 3 INCHES.
    - WHERE CONCRETE SURFACES, AFTER FORM REMOVAL, ARE EXPOSED TO WEATHER:
      - #5 BARS OR SMALLER: 1 1/2 INCHES.
      - #6 BARS OR LARGER: 2 INCHES.
    - WHERE CONCRETE SURFACES ARE NOT EXPOSED TO WEATHER OR GROUND:
      - FOR SLABS AND WALLS: #11 BARS OR SMALLER: 1 INCH.
      - FOR BEAMS, GIRDERS, AND COLUMNS: 1 1/2 INCHES.
  - SUBGRADE BELOW THE SLAB-ON-GRADE SHALL CONSIST OF MINIMUM 12" LIFTS AND COMPACTED TO 95% OF MODIFIED PROCTOR DENSITY WITH THE FOLLOWING CHARACTERISTICS. FILL SHOULD BE FREE FROM VEGETABLE MATTER, LUMPS OR BALLS OF CLAY AND OTHER DELETERIOUS SUBSTANCES.

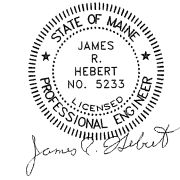
SIEVE SIZE	PERCENT FINER
3"	90-100
1/4"	25-70
NO. 40	0-30
NO.200	0-5



**1 TYPICAL GENERATOR FOUNDATION DETAIL**  
SCALE: NTS



**2 TYPICAL GENERATOR FOUNDATION DETAIL**  
SCALE: NTS



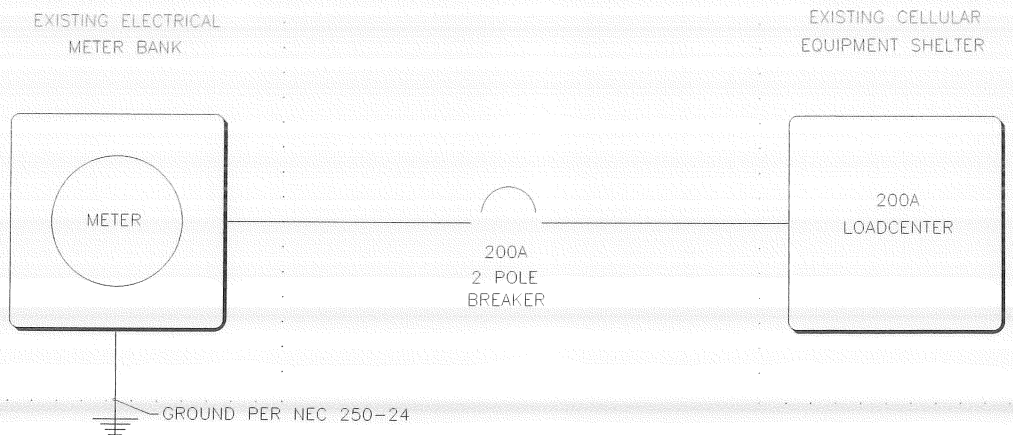
**GENERATOR FOUNDATION DETAILS**

U.S. Cellular

**BLACK DIAMOND CONSULTANTS INC**

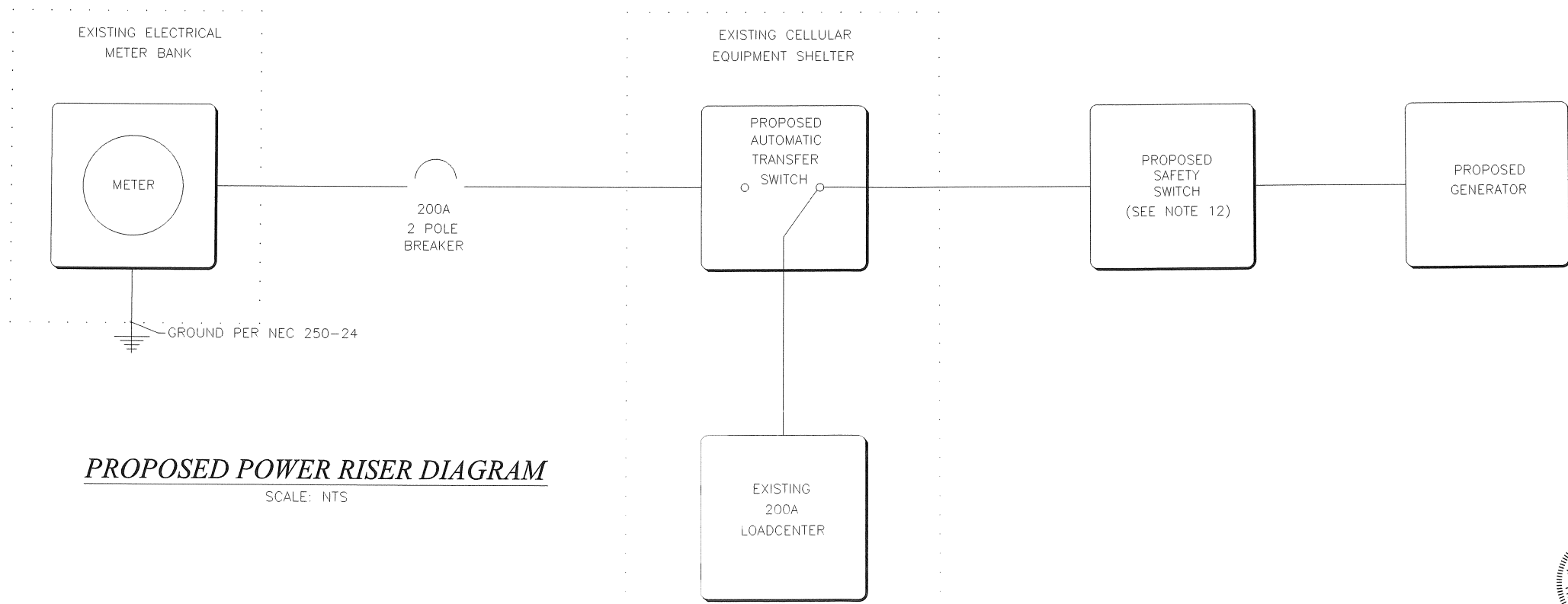
BDC PROJECT(S) USCC-121		BDC PROPOSAL(S) H/A	
BDC JOB ORDER(S) 09-024		CLIENT DATA SITE NAME: NORTH PORTLAND SITE NUMBER: 853337	





**EXISTING POWER RISER DIAGRAM**

SCALE: NTS

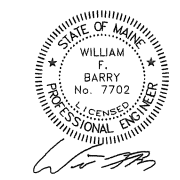


**PROPOSED POWER RISER DIAGRAM**

SCALE: NTS

**NOTES:**

1. CONTRACTOR SHALL INSTALL ALL CONDUITS AND WIRES AS SHOWN AS CONTINUOUS COPPER CONDUCTOR RUNS UNLESS OTHERWISE NOTED.
2. CONDUIT AND PULL STRINGS SHALL BE INSTALLED BY CONTRACTOR.
3. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST NATIONAL ELECTRIC CODE, ALL LOCAL & STATE CODES, LAWS AND ORDINANCES.
4. POWER SERVICE REQUIREMENTS SHALL BE COMMERCIAL 120/240 VAC NOMINAL, SINGLE PHASE & 3 WIRE WITH 200 AMP RATING.
5. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONDUIT ROUTING WITH LOCAL UTILITY COMPANIES AND USCC PROJECT MANAGER/DESIGNEE.
6. UTILITY SERVICES SHOWN ARE PROPOSED, THE ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT TELEPHONE AND ELECTRICAL SERVICE CONNECTION POINTS, ROUTING, AND ASSOCIATED REQUIREMENTS WITH UTILITY COMPANIES.
7. ALL CONDUITS ROUTED BELOW GRADE SHALL UTILIZE RIGID GALVANIZED ELBOWS.
8. EXPANSION JOINTS SHALL BE USED AT TRANSITION BETWEEN ABOVE GRADE AND BELOW GRADE CONDUITS.
9. ALL METAL CONDUIT BUSHINGS SHALL BE PROVIDED WITH GROUNDING BUSHINGS.
10. GENERAL CONTRACTOR SHALL PROVIDE ALL DIRECT BURIED CONDUITS WITH PLASTIC WARNING TAPE IDENTIFYING CONTENTS. TAPE COLORS SHALL BE ORANGE FOR TELEPHONE AND RED FOR ELECTRICAL.
11. CONTRACTOR SHALL VERIFY EXISTING BURIED UTILITIES PRIOR TO CONSTRUCTION. (DIG SAFE UNDERGROUND SERVICE ALERT: 1-888-DIG-SAFE; 1-888-344-7233).
12. PROPOSED SAFETY SWITCH SHALL BE 200A 240VAC, SINGLE THROW, HEAVY DUTY, NEMA 3R ENCLOSURE.



**ELECTRICAL DETAILS**

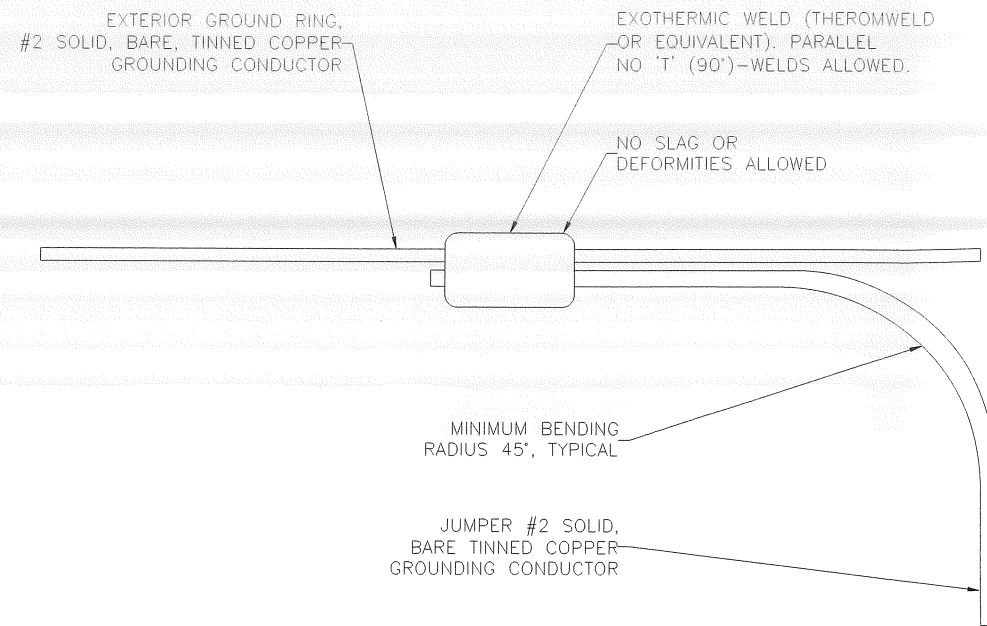


DRAWING NUMBER ELE-1A-1

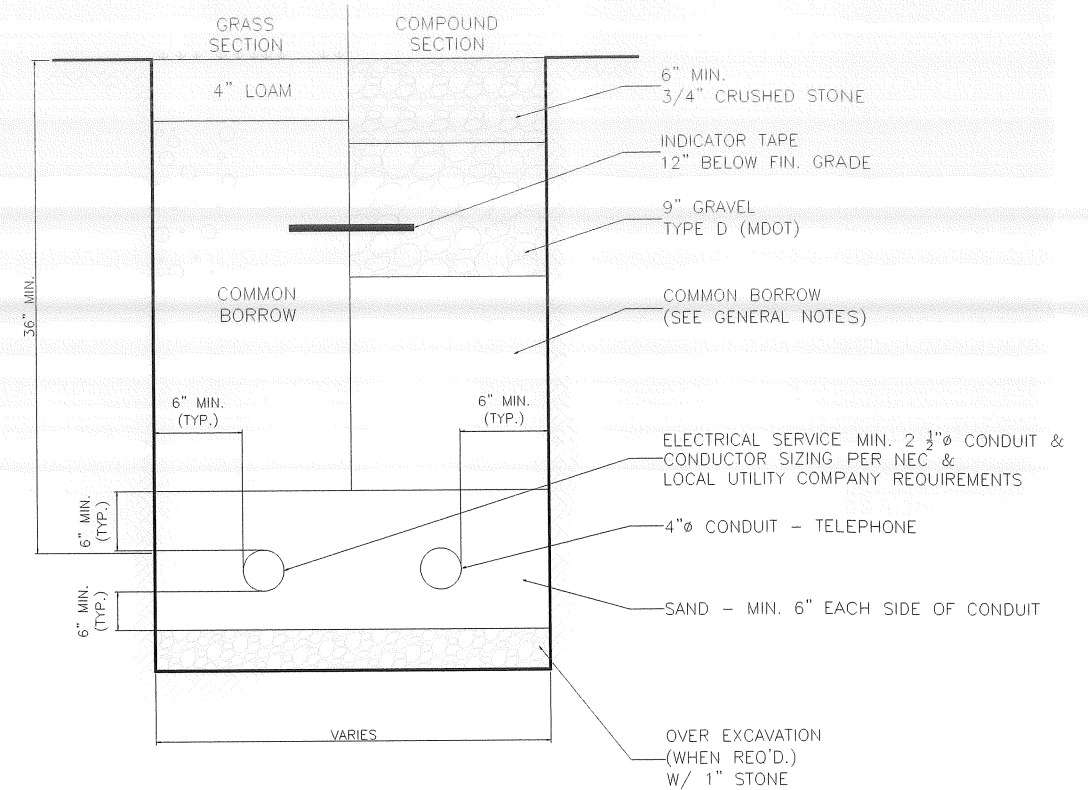
BDC: P/DRAFTING/BDC/USCC-121/ELE-1A-1

BDC PROJECT(S)		BDC PROPOSAL(S)	
USCC-121		N/A	
BDC JOB ORDER(S)		CLIENT DATA	
REVISION NOTES POWER RISER DIAGRAM CHANGE 09-024		SITE NAME: NORTH PORTLAND SITE NUMBER: 853337	





**TYPICAL GROUNDING CONNECTION**  
SCALE: NTS



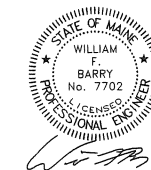
**TYPICAL ELECTRICAL/TELEPHONE TRENCH SECTION**  
SCALE: NTS

**NOTES:**

- GROUNDING INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS. ALL DETAILS ARE SHOWN DIAGRAMATICALLY.
- ALL GROUND WIRE SHALL BE BARE #2 AWG SOLID TINNED COPPER WIRE UNLESS OTHERWISE NOTED.
- ALL GROUND WIRES SHALL PROVIDE A STRAIGHT, DOWNWARD PATH TO GROUND WITH GRADUAL BENDS AS REQUIRED. GROUND WIRES SHALL NOT BE LOOPED OR SHARPLY BENT.
- ELECTRICAL CONTRACTOR SHALL COORDINATE CONNECTIONS TO EXISTING GROUND RINGS WITH USCC PROJECT MANAGER OR DESIGNEE, IF APPLICABLE.
- EACH EQUIPMENT CABINET SHALL BE CONNECTED TO THE MASTER ISOLATION GROUND BAR (MIGB) WITH #2 AWG INSULATED STRANDED COPPER WIRE. EQUIPMENT CABINETS SHALL EACH HAVE (2) CONNECTIONS UNLESS OTHERWISE NOTED. GROUNDING INSTALLATION SHALL BE IN ACCORDANCE WITH THE USCC EQUIPMENT SITE SPECIFICATION GUIDELINES.
- ALL UNDERGROUND CONNECTIONS AND/OR GROUND RODS SHALL BE CADWELDED AND INSPECTED BY USCC PROJECT MANAGER/DESIGNEE PRIOR TO BACKFILLING.
- ALL GROUND LEADS SHALL BE ATTACHED TO GROUND BARS USING TWO HOLE LUGS. CORROSION INHIBITING CONDUCTIVE COMPOUND SHALL BE APPLIED BETWEEN THE LUG AND GROUND BAR.
- ALL EXPOSED #2 CONDUCTOR SHALL BE PLACED IN NON-METALLIC FLEX TUBING WITH THE EXPOSED OPEN ENDS SEALED.
- ALL CADWELD CONNECTIONS TO GALVANIZED MATERIAL SHALL BE PROPERLY PREPARED TO ASSURE A SATISFACTORY CADWELD. THE CADWELD CONNECTION SHALL BE COATED WITH A COLD GALVANIZING SPRAY TO PREVENT CORROSION.

**NOTES:**

- CONTRACTOR SHALL COMPLY WITH OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION REGULATIONS PERTAINING TO THE EXCAVATION OF ALL TRENCHES. CONTRACTOR SHALL ALLOW FOR PAYMENT OF ADDITIONAL EXCAVATION, TRENCH BOXES, AND BACKFILL WITH REGARD TO COMPLYING WITH ALL OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION STANDARDS.
- ALL COMMON BORROW AND GRAVEL AREAS TO BE COMPACTED TO 95% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557 "MODIFIED PROCTOR DENSITY". PLACE IN 9" TO 12" LIFTS.



**GROUNDING AND TRENCH DETAILS**



DRAWING NUMBER  
ELE-2A-0

BDC: P/DRAFTING/BDC/USCC-121/ELE-2A-0

BDC PROJECT(S)		BDC PROPOSAL(S)	
USCC-121		N/A	
BDC JOB ORDER(S)		CLIENT DATA	
09-024		SITE NAME: NORTH PORTLAND SITE NUMBER: 853337	
REV	DATE	BY	CHK'D
0	8-02-09	MJT	AMC
REVISION NOTES		ORIGINAL	ISSUE

TO PROTECT CONSTRUCTION SITE AREAS AND ADJACENT SENSITIVE LAND AND WATERS OF THE STATE, THE FOLLOWING EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED AND MAINTAINED. THESE MEASURES HAVE BEEN ESTABLISHED TO CONFORM TO STATE OF MAINE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMP).

THIS EROSION/STABILIZATION PLAN IS A MINIMUM THAT THE CONTRACTOR MUST DO. GIVEN SITE AND WEATHER CONDITIONS, ADDITIONAL MEASURES MAY BE NEEDED.

**SOIL DISTURBANCE:** THE CONTRACTOR SHALL LIMIT THE EXTENT OF SOIL EXPOSED DURING CONSTRUCTION TO THE MINIMUM POSSIBLE. EXPOSED AREAS SHALL BE TEMPORARILY OR PERMANENTLY STABILIZED AS SOON AS POSSIBLE BUT NO LATER THAN 15 DAYS AFTER INITIAL DISTURBANCE OF THE SOIL AND WITHIN 7 DAYS OF FINAL GRADING.

**ROAD DITCHES, INLET & OUTLET PROTECTION FOR CULVERTS:** EXPOSED AREAS FOR ROAD DITCHING SHALL BE TEMPORARILY OR PERMANENTLY STABILIZED AS SOON AS POSSIBLE BUT NO LATER THAN 7 DAYS AFTER INITIAL DISTURBANCE OF THE SOIL. INLET AND OUTLET PROTECTION FOR CULVERTS SHALL BE TEMPORARILY OR PERMANENTLY STABILIZED AS SOON AS POSSIBLE BUT NO LATER THAN 24 HOURS OF INSTALLING EACH CULVERT, FIELD INLET, OR STORM DRAIN OUTFALL.

**SILT FENCING AND/OR HAY BALES:** INSTALL SILT FENCES AND/OR HAY BALES AROUND SITE EXPOSED AREAS AS SHOWN ON THE SITE PLAN AND FOR ANY ADDITIONAL AREAS DETERMINED TO BE SUBJECT TO SEDIMENT EROSION AS A RESULT OF SITE CONDITIONS. SILT FENCING AND/OR HAY BALES WILL REMAIN IN PLACE UNTIL EXPOSED AREAS HAVE ACQUIRED STABILIZATION. INSTALL THE SILT FENCING AND/OR HAY BALES IN ACCORDANCE WITH DETAILS PROVIDED BY THE SITE PLAN.

**STOCKPILING, HAUL ROADS, BORROW AREAS:** THE CONTRACTOR SHALL VERIFY THAT STOCKPILING, HAUL ROAD, AND BORROW AREAS SHALL NOT BE LOCATED IN WETLANDS OR AREAS OF CONCENTRATED FLOWS. SILT FENCES, MULCHING, AND OTHER EROSION CONTROL MEASURES SHALL BE PROVIDED TO PROVIDE SEDIMENTATION CONTROL TO THESE AREAS.

**DUST CONTROL:** THE EXPOSED SOIL SURFACE SHOULD BE MOISTENED PERIODICALLY WITH ADEQUATE WATER TO CONTROL DUST.

**SITE EROSION/STABILIZATION MAINTENANCE:** THE CONTRACTOR SHALL INSPECT THE AREAS ROUTINELY AND ESPECIALLY AFTER RAIN EVENTS AND SHALL REPAIR THE SEDIMENTATION CONTROLS, AS NECESSARY. THE CONTRACTOR SHALL MAINTAIN THE TEMPORARY AND PERMANENT SITE EROSION AND STABILIZATION CONTROLS UNTIL FINAL ACCEPTANCE OF THE WORK. MAINTENANCE SHALL INCLUDE PROVIDING PROTECTION AGAINST SITE TRAFFIC AND REPAIRING DAMAGES TO CONTROLS RESULTING FROM RAIN, WIND, OR OTHER EVENTS. DAMAGED AREAS SHALL BE REPAIRED TO RE-ESTABLISH SOIL CONDITIONS AND GRADES AND SHALL INCLUDE RE-ESTABLISHING THE TEMPORARY OR PERMANENT FERTILIZING, LIMING, SEEDING, MULCHING CONDITIONS OBTAINED PRIOR TO THE DAMAGES.

**TEMPORARY MEASURES FOR EROSION CONTROL**

THESE TEMPORARY MEASURES WILL PROTECT THE AREA UNTIL MORE PERMANENT SITE STABILIZATION MEASURES ARE ESTABLISHED. THE FOLLOWING MEASURES SHALL BE USED FOR TEMPORARY SITE STABILIZATION: REFER TO MAINE EROSION AND SEDIMENT CONTROL BMP A-1 & A-2 FOR ADDITIONAL INFORMATION ON TEMPORARY MEASURES FOR EROSION CONTROL.

**TEMPORARY SEEDING:** GRADE AND PREPARE AREA AS NEEDED TO PROVIDE FOR SEEDING. APPLY 10-10-10 FERTILIZER AT THE RATE OF 13.8#/1000FT<sup>2</sup>. APPLY LIMESTONE AT THE RATE OF 138#/1000FT<sup>2</sup>. APPLY WINTER RYE AT THE RATE OF 2 1/2 #/1000FT<sup>2</sup>. NOTE - SEEDING RATE MUST BE INCREASED BY 10% WHEN HYDRO-SEEDING. AFTER SEEDING, APPLY TEMPORARY HAY OR STRAW MULCHING AS FOLLOWS:

**TEMPORARY MULCHING:** APPLY HAY OR STRAW MULCHING OVER THE EXPOSED AREA AT THE RATE OF 2 BALES/1000FT<sup>2</sup> TO COVER 75 TO 90% OF THE GROUND SURFACE. SECURE MULCH BY TRACKING, NETTING, OR PEG AND TWINE, AS NECESSARY, TO PREVENT LOSS OF COVER OVER EXPOSED AREA.

**PERMANENT MEASURES FOR EROSION CONTROL**

FOR DISTURBED AREAS WITH SLOPES GREATER THAN 2:1, EROSION CONTROLS AND AREA STABILIZATION SHALL BE PROVIDED AS SHOWN BY THE SITE PLAN.

**PERMANENT SEEDING:** PROVIDE PERMANENT SEEDING AS EACH CONSTRUCTION AREA IS BROUGHT TO FINISH GRADE. PREPARE AREA AS NEEDED TO PROVIDE FOR SEEDING. APPLY 10-20-20 FERTILIZER AT THE RATE OF 18.4#/1000FT<sup>2</sup>. APPLY LIMESTONE AT THE RATE OF 138#/1000FT<sup>2</sup>. APPLY A MIXTURE OF KENTUCKY BLUEGRASS (45%), CREEPING RED FESCUE (45%), AND PERENNIAL RYEGRASS (10%) AT THE RATE OF 1#/1000FT<sup>2</sup>. NOTE - SEEDING RATE MUST BE INCREASED BY 10% WHEN HYDRO-SEEDING. AFTER SEEDING, APPLY TEMPORARY HAY OR STRAW MULCHING AS FOLLOWS:

**TEMPORARY MULCHING:** APPLY HAY OR STRAW MULCHING OVER THE EXPOSED AREA AT THE RATE OF 2 BALES/1000FT<sup>2</sup> TO COVER 75 TO 90% OF THE GROUND SURFACE. SECURE MULCH BY TRACKING, NETTING, OR PEG AND TWINE, AS NECESSARY, TO PREVENT LOSS OF COVER OVER EXPOSED AREA.

**OVERWINTER CONSTRUCTION AND STABILIZATION**

IF THE CONSTRUCTION SITE IS NOT STABILIZED BY NOVEMBER 15 THEN THE SITE NEEDS TO BE PROTECTED WITH OVER-WINTER STABILIZATION. THE WINTER CONSTRUCTION PERIOD IS FROM NOVEMBER 1 THROUGH APRIL 15. IF CONSTRUCTION IS CONDUCTED DURING THE WINTER CONSTRUCTION PERIOD, LIMIT CONSTRUCTION EXPOSED AREAS TO ONLY THOSE AREAS REQUIRED FOR TELECOMMUNICATIONS FACILITY INSTALLATION, SUCH AS, ACCESS GRAVEL ROAD CONSTRUCTION, INSTALLATION OF UTILITIES, AND INSTALLATION OF TOWER, SHELTER, AND EQUIPMENT. FINAL SITE GRADING, PERMANENT MEASURES FOR EROSION CONTROL, CONSTRUCTION AND STABILIZATION OF DITCHES AND CHANNELS SHALL BE PROVIDED AFTER WINTER CONSTRUCTION PERIOD. REFER TO MAINE EROSION AND SEDIMENT CONTROL BMP A-3 FOR ADDITIONAL INFORMATION ON OVER-WINTER CONSTRUCTION AND STABILIZATION.

**SEDIMENT BARRIERS:** DURING FROZEN CONDITION, SEDIMENT BARRIERS MAY CONSIST OF EROSION CONTROL MIX BERMS OR ANY OTHER RECOGNIZED SEDIMENT BARRIERS IF FROZEN SOIL PREVENTS THE PROPER INSTALLATION OF HAY BALES OR SILT FENCES.

**MULCHING:** HAY AND STRAW MULCH SHALL BE APPLIED AT A RATE THAT IS TWICE THE NORMAL NON-WINTER PERIOD ACCEPTED RATE AND SHALL BE PROPERLY ANCHORED. EROSION CONTROL MIX, IF USED, MUST BE APPLIED WITH A MINIMUM 4 INCH THICKNESS. ANY SNOW WILL BE REMOVED DOWN TO ONE INCH DEPTH OR LESS PRIOR TO MULCHING APPLICATION. STOCKPILES OF SOIL WILL BE SIMILARLY MULCHED.

**OVER-WINTER STABILIZATION OF DITCHES AND CHANNELS:** ALL DITCHES AND CHANNELS MUST BE CONSTRUCTED AND STABILIZED BY NOVEMBER 15.

**CONSTRUCTION SCHEDULE**

(IN FOLLOWING SEQUENCE, COORDINATE WITH OTHER CONSTRUCTION ACTIVITIES, MAINTAIN CONTINUOUSLY)

1. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE.
2. INSTALL SILT FENCE, PROJECT WIDE.
3. REMOVE AND STOCKPILE LOAM, PLACE SILT FENCE AT TOE.
4. SITE BLASTING AND PRIMARY EARTHWORK.
5. INSTALL DRAINAGE SYSTEM IMPROVEMENTS.
6. INSTALL DRAINAGE SYSTEM EROSION CONTROL MEASURES.
7. PROVIDE PRIMARY SLOPE STABILIZATION AND MULCHING OR TEMPORARY SEEDING.
8. FINAL SITE GRADING, PERMANENT SLOPE PROTECTION, PERMANENT SEEDING.
9. AFTER SITE IS STABILIZED AND COMPLETE, REMOVE TEMPORARY EROSION CONTROL MEASURES.

**GENERAL NOTES:**

**AGGREGATE FOR GRAVEL BASE:**

AGGREGATE FOR GRAVEL BASE SHALL BE SCREENED OR CRUSHED GRAVEL OF HARD DURABLE PARTICLES FREE FROM VEGETABLE MATTER, LUMPS OR BALLS OF CLAY AND OTHER DELETERIOUS SUBSTANCES. THE GRADATION OF THE PART THAT PASSES A 3 INCH SIEVE SHALL MEET THE GRADING REQUIREMENTS OF THE FOLLOWING TABLE:

SIEVE DESIGNATION	PERCENTAGE BY WEIGHT PASSING SQUARE MESH SIEVES	
	TYPE A AGGREGATE	TYPE D AGGREGATE
1/2 INCH	45-70	---
1/4 INCH	30-55	25-70
No. 40	0-20	0-30
No. 200	0-5	0-5

TYPE "A" AGGREGATE SHALL NOT CONTAIN PARTICLES WHICH WILL NOT PASS THE 2 INCH SQUARE MESH SIEVE.

TYPE "D" AGGREGATE SHALL NOT CONTAIN PARTICLES WHICH WILL NOT PASS THE 6 INCH SQUARE MESH SIEVE.

EACH LAYER AS APPLIED SHALL BE ROLLED WITH A 20 TON ROLLER. THE MATERIAL AS SPREAD SHALL BE WELL MIXED WITH NO POCKETS OF EITHER FINE OR COARSE MATERIAL. OVER SIZED STONES SHALL BE REMOVED FROM THE AGGREGATE.

EACH LAYER OF AGGREGATE SHALL BE PLACED OVER THE FULL WIDTH OF THE SECTION. AGGREGATE BASE AND SUB-BASE COURSES MAY BE PLACED UPON FROZEN SURFACES WHEN SUCH SURFACES HAVE BEEN PROPERLY CONSTRUCTED.

THE SURFACE OF EACH LAYER SHALL BE MAINTAINED DURING COMPACTION OPERATIONS IN SUCH A MANNER THAT A UNIFORM TEXTURE IS PRODUCED AND THE AGGREGATE IS FIRMLY KEYS. THE MOISTURE CONTENT OF THE MATERIAL SHALL BE MAINTAINED AT THE PROPER PERCENT TO ATTAIN THE REQUIRED COMPACTION AND STABILITY. COMPACTION OF EACH LAYER SHALL BE CONTINUED UNTIL DENSITY OF NOT LESS THAN 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557 "MODIFIED PROCTOR DENSITY" HAS BEEN ACHIEVED FOR THE FULL WIDTH AND DEPTH OF EACH LAYER AS APPLIED.

THE SURFACE TOLERANCE OF EACH BASE COURSE AS APPLIED SHALL BE 3/8 INCHES ABOVE OR BELOW THE REQUIRED TEMPLATE LINES.

**AGGREGATE FOR SUB-BASE:**

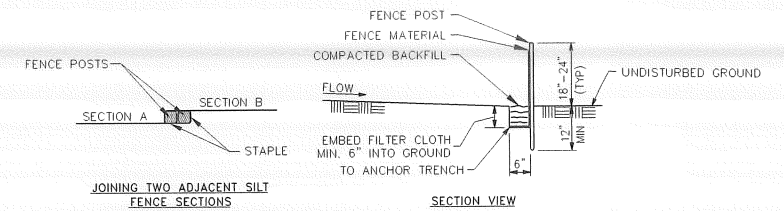
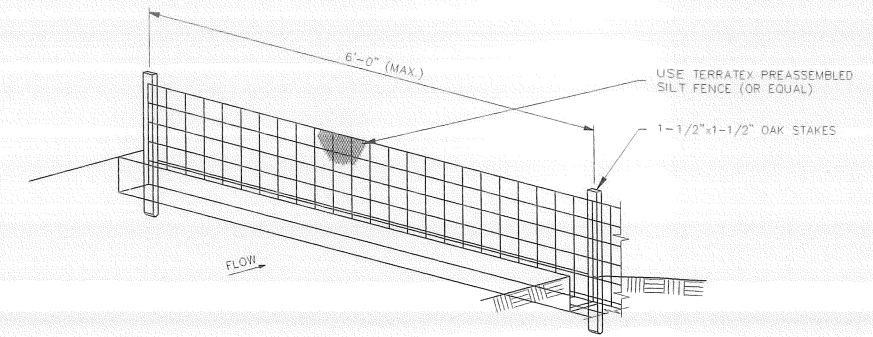
AGGREGATE FOR SUB-BASE SHALL BE TYPE "D" (MDOT). IT SHALL BE FREE FROM VEGETABLE MATTER, LUMPS OR BALLS OF CLAY AND OTHER DELETERIOUS SUBSTANCES.

**COMMON BORROW:**

COMMON BORROW SHALL CONSIST OF EARTH, SUITABLE FOR EMBANKMENT CONSTRUCTION. IT SHALL BE FREE FROM FROZEN MATERIAL, PERISHABLE RUBBISH, PEAT AND OTHER UNSUITABLE MATERIAL.

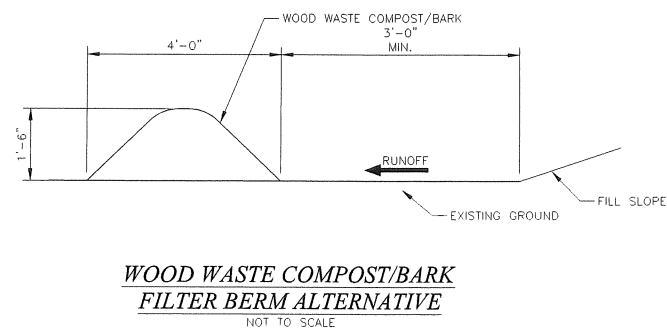
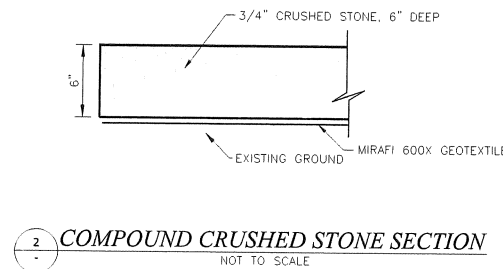
THE MOISTURE CONTENT SHALL BE SUFFICIENT TO PROVIDE THE REQUIRED COMPACTION AND STABLE EMBANKMENT. IN NO CASE SHALL THE MOISTURE CONTENT EXCEED 4 PERCENT ABOVE OPTIMUM.

ALL COMMON BORROW AND GRAVEL AREAS TO BE COMPACTED TO 95% OF ITS MAX. DRY DENSITY AS DETERMINED BY ASTM D-1557 "MODIFIED PROCTOR DENSITY". PLACE IN 9" TO 12" LIFTS.



**NOTES:**  
SILT FENCE AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.  
SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL IS NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.  
SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.  
THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

1 SILT FENCE DETAIL  
NOT TO SCALE



**WOOD WASTE COMPOST/BARK FILTER BERMS**

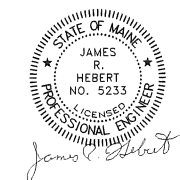
THE FILTER BERM SHALL CONSIST OF A WOOD WASTE COMPOST/BARK MULCH MIX OR RECYCLED COMPOSTED BARK FLUME GRIT AND FRAGMENTED WOOD GENERATED FROM WATER-FLUME LOG HANDLING SYSTEMS. COMPOSTED MIXES CAN BE USED UPON APPROVAL OF THE OFFICE OF ENVIRONMENTAL SERVICES LANDSCAPE UNIT.

THE MIX SHALL CONFORM TO THE FOLLOWING STANDARDS:

- A. MOISTURE CONTENT - 30-60%
- B. pH - 5.0-8.0
- C. SCREEN SIZE - 100% LESS THAN 3", MAXIMUM 70% LESS THAN 1".
- D. NO LESS THAN 40% ORGANIC MATERIAL (DRY WEIGHT) BY LOSS OF IGNITION
- E. NO STONES LARGER THAN 2" IN DIAMETER

THE COMPOSTED BERM SHALL BE PLACED, UNCOMPACTED, ALONG A RELATIVELY LEVEL CONTOUR

NOTE:  
WOOD WASTE COMPOST/BARK FILTER BERMS MAY BE USED IN COMBINATION WITH SILT FENCE TO IMPROVE SEDIMENT REMOVAL AND PREVENT CLOGGING OF THE WOOD WASTE COMPOST/BARK BERM BY LARGER SEDIMENT PARTICLES (SILT FENCE PLACED TO FILTER RUNOFF BEFORE WOOD WASTE COMPOST/BARK)



ENVIRONMENTAL AND CIVIL DETAILS

U.S.Cellular

**BLACK DIAMOND CONSULTANTS INC**

DRAWING NUMBER: ENV-1A-0  
BDC: P/DRAFTING/BDC/USCC-121/ENV-1A-0

BDC PROJECT(S)		BDC PROPOSAL(S)	
USCC-121		N/A	
BDC JOB ORDER(S)		CLIENT DATA	
09-024		SITE NAME: NORTH PORTLAND SITE NUMBER: 853337	