

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

Please Read  
Application And  
Notes, If Any,  
Attached

**BUILDING INSPECTION**

Permit Number: 061550

**PERMIT**

This is to certify that PORTLAND HOUSING AUTHORITY /Cingular  
 has permission to Installation of generator  
 AT 19 EMERY ST 057 F001001

*Permit expired + abandoned 1/14/08*

provided that the person or persons performing or supervising the work in accepting this permit shall comply with all of the provisions of the Statutes of the State 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 when permission is procured before this building or part thereof is occupied or service is closed-in. 4 HOUR NOTICE REQUIRED.

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

**OTHER REQUIRED APPROVALS**

Fire Dept. *Craig Cross 11-26-06*

Health Dept. \_\_\_\_\_

Appeal Board \_\_\_\_\_

Other \_\_\_\_\_

Department Name

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: 06-1550	Issue Date:	CBL: 057 F001001
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Location of Construction: 19 EMERY ST <i>called 28th DAN FORTH</i>		Owner Name: PORTLAND HOUSING AUTHOR	Owner Address: 14 BAXTER BLVD	Phone:
Business Name:	Contractor Name: Cingular	Contractor Address: 580 Main Street Bolton	Phone: 9787900250	
Lessee/Buyer's Name	Phone:	Permit Type: Alterations - Commercial	Zone: <i>R-6</i>	
Past Use: Multi Residential - <i>150 D.4 Harbor Terrace</i>	Proposed Use: Multi Residential installation of generator	Permit Fee: \$500.00	Cost of Work: \$48,000.00	CEO District: 2
Proposed Project Description: Installation of generator <i>Emergency</i>		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: Type:	
		Signature: <i>Greg Cross</i>	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 abandoned  
Approved 1/14/08*

Permit Taken By: dmartin	Date Applied For: 10/19/2006	<b>Zoning Approval</b>		
<ol style="list-style-type: none"> <li>This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</li> <li>Building permits do not include plumbing, septic or electrical work.</li> <li>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..</li> </ol>		<b>Special Zone or Reviews</b> <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan  Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: <i>3/1/27/06</i>	<b>Zoning Appeal</b> <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:	<b>Historic Preservation</b> <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:

**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

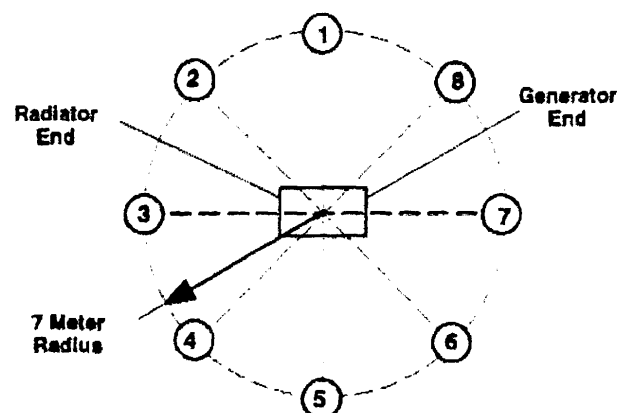
\_\_\_\_\_  
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE DATE PHONE

## Sound Enclosure Data

### Sound Data for Generator Sets Operating Inside a Sound Enclosure

#### Measurement Positions and Distances for Data

Microphone Positions: (1-8) as shown  
 Microphone Distance: 7 m (23 ft.)  
 (from center of enclosure)  
 Microphone Height: 1 m (3.28 ft.)  
 Data Measured in: dB(A), sound pressure  
 (Re: 20 $\mu$ Pa)



**Note:** Measurements taken with the generator set operating at full load.

#### Sound Data in dB(A)

Models	Hz	Microphone Positions							
		1	2	3	4	5	6	7	8
30RZG	60*	70	71	72	72	70	70	70	69
	50*	68	69	68	70	69	69	68	68
30RZGB	60*	70	71	72	72	70	70	70	69
35RZG	60	70	71	73	72	70	70	70	69
	50	68	69	68	70	69	69	68	68
45RZG	60	71	71	73	72	70	70	70	69
	50	69	69	69	70	69	71	68	68
50RZG	60	71	71	74	72	71	71	70	70
	50	69	69	69	70	68	71	70	69
50RZGB	60*	71	71	74	72	71	71	70	70
	50*	69	69	69	70	68	71	70	69
60RZG	60	72	72	74	73	72	71	72	71
	50	70	69	69	71	69	71	70	69
80RZG	60	74	75	79	76	74	75	74	74
	50	72	72	72	72	71	73	71	72
100RZG	60	74	75	79	78	74	75	74	74
	50	72	72	72	72	72	73	72	72
125RZG	60	75	75	78	76	76	77	77	77
	50	74	73	73	73	72	73	74	75

\* Estimated values

## Weather and Sound Enclosure Weights

Model	Alternator	Weather Enclosure				Sound Enclosure			
		Steel Housing		Aluminum Housing		Steel Housing		Aluminum Housing	
		Generator Set Weight (Wet) with Housing, kg (lb.)	Housing Only Weight, kg (lb.)	Generator Set Weight (Wet) with Housing, kg (lb.)	Housing Only Weight, kg (lb.)	Generator Set Weight (Wet) with Housing, kg (lb.)	Housing Only Weight, kg (lb.)	Generator Set Weight (Wet) with Housing, kg (lb.)	Housing Only Weight, kg (lb.)
30B	4P5W/4P5	816 (1795)		680 (1495)		875 (1925)		725 (1595)	
30B	4P7BW/4P7B	857 (1885)		720 (1585)		916 (2015)		766 (1685)	
30	all	841 (1850)		703 (1550)		900 (1980)		748 (1650)	
35	all	850 (1871)		714 (1571)		910 (2001)		758 (1671)	
45	4P7BW/4P7B	887 (1951)		749 (1651)		946 (2081)		794 (1751)	
45	4P8W/4P8/ 4Q10W/4Q10	903 (1986)	284 (625)	765 (1686)	147 (325)	962 (2116)	343 (755)	810 (1786)	193 (425)
50B	all	998 (2195)		860 (1895)		1057 (2325)		905 (1995)	
60	4P10Q/ 4P10	1041 (2290)		903 (1990)		1100 (2420)		948 (2090)	
60	4S7W/4S7/ 4V7W/4V7	1099 (2418)		961 (2118)		1158 (2548)		1006 (2218)	
80	all								
100	all	1407 (3095)	305 (670)	1259 (2775)	159 (350)	1466 (3225)	364 (800)	1315 (2900)	215 (475)
125	all	1441 (3170)		1293 (2850)		1500 (3300)		1349 (2975)	



# General Building Permit Application

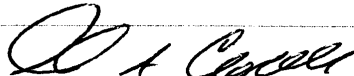
If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: <b>284 Danforth Street</b>		
Total Square Footage of Proposed Structure <b>250</b>	Square Footage of Lot	
Tax Assessor's Chart, Block & Lot Chart# <b>57</b> Block# <b>F</b> Lot# <b>1</b>	Owner: <b>PORTLAND HOUSING AUTHORITY</b>	Telephone: <b>207-773-4753</b>
Lessee/Buyer's Name (If Applicable)	Applicant name, address & telephone: <b>Cingular Wireless 580 Main Street Bolton, MA 01740</b>	Cost Of <b>48,000.00</b> Work: \$ _____ Fee: \$ <b>500.00</b> C of O Fee: \$ _____
Current Specific use: _____ If vacant, what was the previous use? _____ Proposed Specific use: <b>Emergency Back up power</b>		
Project description: <b>INSTALLATION OF A GENERATOR</b>		
Contractor's name, address & telephone: <b>Coastal Tower Services, 5 JOHN'S Way, Standish, Maine, 04084</b> Who should we contact when the permit is ready: <u>George Crouse</u> Mailing address: _____ Phone: <u>207-798-5540</u>  <b>Northern Pride Communications, Inc. 20 Center Park Road, Topsham, Maine, 04086</b>		

Please submit all of the information outlined in the Commercial Application 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 visit us on-line at [www.portlandmaine.gov](http://www.portlandmaine.gov), stop by the Building Inspections 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 of applicant: 

Date: 10/18/06

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

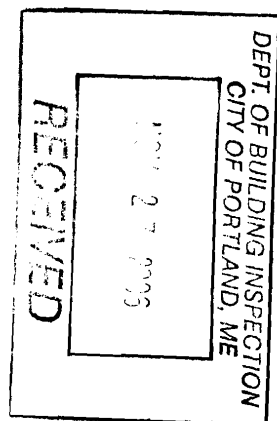
**From:** "George Crouse" <gcrouse@suscom-maine.net>  
**To:** <Mes@portlandmaine.gov>  
**Date:** 11/27/2006 10:08:26 AM  
**Subject:** 284 Danforth Street. Generator back-up

Marge,

Here is the revision we have been waiting for. Could we please get the ball rolling again for this permit. Let me Know if we need anything else.

Thank you for your help,

George Crouse  
President  
Northern Pride Communications, Inc  
20 Center Park Road  
Topsham, Maine 04086  
207-798-5540



Model: **80RZG**

# KOHLER POWER SYSTEMS

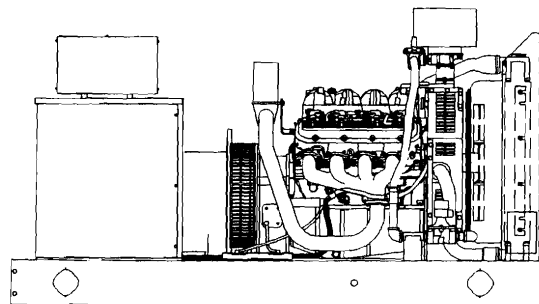
190-600 V

Gas

**9001**  
**POWER SYSTEMS**  
 NATIONALLY REGISTERED

## Ratings Range

		60 Hz	50 Hz
Standby:	kW	61-81	55-73
	kVA	61-101	55-87
Prime:	kW	56-75	51-66
	kVA	56-94	51-80



## Standard Features

- Kohler Co. provides one-source responsibility for the generating system and accessories.
- The generator set and its components are prototype-tested, factory-built, and production-tested.
- The 60 Hz generator set offers a UL 2200 listing.
- The generator set accepts rated load in one step.
- A one-year limited warranty covers all systems and components. Two-, five-, and ten-year extended warranties are also available.
- Alternator features:
  - The Fast-Response™ III wound field (WF) design alternator provides excellent voltage response and short-circuit capability using an auxiliary power brushless exciter.
  - The unique Fast-Response™ II excitation system delivers excellent voltage response and short circuit capability using a permanent magnet (PM)-excited alternator.
  - The brushless, rotating-field alternator has broadrange reconnectability.
- Other features:
  - A rugged industrial gas engine delivers rated power at 1800 rpm (60 Hz) and 1500 rpm (50 Hz).
  - Controllers are available for all applications. See controller features inside.
  - The electronic, isochronous governor incorporates an integrated drive-by-wire throttle body actuator delivering precise frequency regulation.

## Generator Set Ratings

Alternator	Voltage	Ph	Hz	Natural Gas				LP Gas			
				130°C Rise		105°C Rise		130°C Rise		105°C Rise	
				Standby Rating	Prime Rating	Standby Rating	Prime Rating	Standby Rating	Prime Rating	Standby Rating	Prime Rating
				kW/kVA	Amps	kW/kVA	Amps	kW/kVA	Amps	kW/kVA	Amps
4S7W/4S7	120/208	3	60	80/100	278	73/91	253	80/100	278	73/91	253
	127/220	3	60	80/100	262	74/93	243	80/100	262	74/93	243
	120/240	3	60	80/100	241	72/90	217	80/100	241	72/90	217
	120/240	1	60	61/61	254	56/56	233	61/61	254	56/56	233
	139/240	3	60	81/101	244	75/94	226	81/101	244	75/94	226
	220/380	3	60	75/94	142	69/86	131	75/94	142	69/86	131
	277/480	3	60	81/101	122	75/94	113	81/101	122	75/94	113
	347/600	3	60	81/101	97	75/94	90	81/101	97	75/94	90
	110/190	3	50	66/82	249	60/75	228	70/87	264	64/80	243
	115/200	3	50	66/83	240	61/76	219	70/87	251	64/80	231
	120/208	3	50	66/83	230	61/76	211	70/87	241	64/80	222
	110/220	3	50	66/82	215	60/75	197	66/83	218	60/75	197
110/220	1	50	55/55	250	51/51	232	55/55	250	51/51	232	
220/380	3	50	66/82	125	60/75	114	70/87	132	64/80	122	
230/400	3	50	66/83	120	61/76	110	70/87	126	64/80	115	
240/416	3	50	66/83	115	61/76	105	70/87	121	64/80	111	
4V9W/4V9	120/240	1	60	80/80	333	71/71	296	80/80	333	73/73	304
	110/220	1	50	65/65	295	59/59	268	73/73	332	66/66	300

**RATINGS:** All three-phase units are rated at 0.8 power factor. All single-phase units are rated at 1.0 power factor. **Standby Ratings:** Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046/1, BS 5514, AS 2789, and DIN 6271. **Prime Power Ratings:** Prime power ratings apply to installations where utility power is unavailable or unreliable. At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO-8528/1, overload power in accordance with ISO-3046/1, BS 5514, AS 2789, and DIN 6271. For limited running time and base load ratings, consult the factory. Obtain the technical information bulletin (TIB-101) on ratings guidelines for the complete ratings definitions. The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever. **GENERAL GUIDELINES FOR DERATING:** Altitude: Derate 1.3% per 100 m (328 ft.) elevation above 200 m (656 ft.). Temperature: Derate 3.0% per 10°C (18°F) temperature above 25°C (77°F). For units having enclosures with enclosed silencers, add 10°C (18°F) to the ambient temperature. Dual fuel engines are optimized to run on the primary fuel (natural gas) and, as a result, the LPG ratings may not be attained. For dual fuel engines, use the natural gas ratings for both the primary and secondary fuels.

## Application Data

### Lubrication

Lubricating System	60 Hz	50 Hz
Type	Full Pressure	
Oil pan capacity, L (qt.)	7.6 (8.0)	
Oil pan capacity with filter, L (qt.)	8.0 (8.5)	
Oil filter: quantity, type	1, Cartridge	

### Cooling

Radiator System	60 Hz	50 Hz
Ambient temperature, °C (°F)	50 (122)	
Engine jacket water capacity, L (gal.)	10.0 (2.6)	
Radiator system capacity, including engine, L (gal.)	25.7 (6.8)	
Engine jacket water flow, Lpm (gpm)	125 (33)	102 (27)
Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.)	62 (3540)	54 (3080)
Water pump type	Centrifugal	
Fan diameter, including blades, mm (in.)	599 (23.6)	
Fan, kWm (HP)	6.7 (9.0)	3.7 (5.0)
Max. restriction of cooling air, intake and discharge side of radiator, kPa (in. H <sub>2</sub> O)	0.125 (0.5)	

Remote Radiator System†	60 Hz	50 Hz
Exhaust manifold type	Dry	
Connection sizes:		
Water inlet, ID hose, mm (in.)	44.45 (1.75)	
Water outlet, ID hose, mm (in.)	38.10 (1.50)	

Static head allowable above engine, kPa (ft. H<sub>2</sub>O) 4.32 (17.0)

† Contact your local distributor for cooling system options and specifications based on your specific requirements.

### Operation Requirements

Air Requirements	60 Hz	50 Hz
Radiator-cooled cooling air, m <sup>3</sup> /min. (scfm)‡	198 (7000)	153 (5400)
Cooling air required for generator set when equipped with city water cooling or remote radiator, based on 14°C (25°F) rise and ambient temperature of 29°C (85°F), m <sup>3</sup> /min. (cfm)	187 (6600)	162 (5720)
Combustion air, m <sup>3</sup> /min. (cfm)	5.7 (200)	4.3 (150)
Heat rejected to ambient air:		
Engine, kW (Btu/min.)	40 (2300)	32 (1820)
Alternator, kW (Btu/min.)	11.8 (670)	13.3 (755)

‡ Air density = 1.20 kg/m<sup>3</sup> (0.075 lbm/ft<sup>3</sup>)

Fuel Consumption§	60 Hz	50 Hz
Natural Gas, m <sup>3</sup> /hr. (cfh) at % load	Standby Rating	
100%	28.7(1012)	24.7 (873)
75%	23.5 (831)	19.3 (680)
50%	18.9 (667)	14.1 (498)
25%	12.4 (437)	9.5 (337)
0%	7.3 (257)	5.6 (198)

Natural Gas, m <sup>3</sup> /hr. (cfh) at % load	Prime Rating	
100%	26.8 (946)	22.7 (803)
75%	22.3 (786)	17.9 (631)
50%	17.7 (625)	13.3 (469)
25%	11.9 (420)	9.2 (324)
0%	7.3 (257)	5.6 (198)

LP Gas, m <sup>3</sup> /hr. (cfh) at % load	Standby Rating	
100%	12.0 (425)	9.1 (321)
75%	9.8 (345)	7.3 (257)
50%	7.4 (261)	5.6 (200)
25%	5.0 (177)	4.0 (142)
0%	2.9 (104)	2.2 (79)

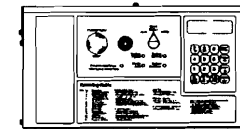
LP Gas, m <sup>3</sup> /hr. (cfh) at % load	Prime Rating	
100%	11.2 (396)	8.4 (298)
75%	9.1 (322)	6.8 (241)
50%	7.0 (246)	5.4 (189)
25%	4.8 (170)	3.9 (137)
0%	2.9 (104)	2.2 (79)

§ Fuel consumption is based on 1015 Btu/standard cu. ft. natural gas.

LP vapor conversion factors:

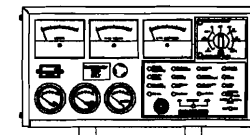
8.58 ft.<sup>3</sup> = 1 lb.  
0.535 m<sup>3</sup> = 1 kg.  
36.39 ft.<sup>3</sup> = 1 gal.

### Controllers



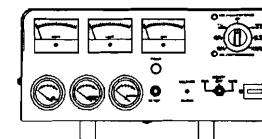
#### Decision-Maker™ 550 Controller

Audiovisual annunciation with NFPA 110 Level 1 capability. Programmable microprocessor logic and digital display features. Alternator safeguard circuit protection. 12- or 24-volt engine electrical system capability. Remote start, remote annunciation, and remote communication options. Refer to G6-46 for additional controller features and accessories.



#### Decision-Maker™ 3+, 16-Light Controller

Audiovisual annunciation with NFPA 110 Level 1 capability. Microprocessor logic, AC meters, and engine gauge features. 12- or 24-volt engine electrical system capability. Remote start, prime power, and remote annunciation options. Refer to G6-30 for additional controller features and accessories.



#### Decision-Maker™ 1 Controller

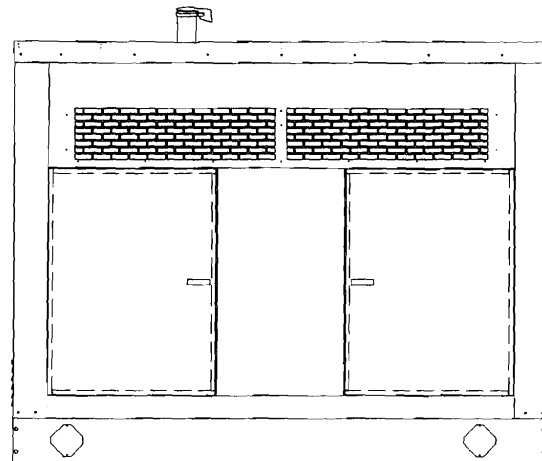
Single-light annunciation and basic controls with NFPA capability. Relay logic, AC meters, and engine gauge features. 12-volt engine electrical system capability only. Remote or automatic start options. Refer to G6-29 for additional controller features and accessories. **Note:** Not available with 600-volt alternator.

## Industrial Generator Set Accessories

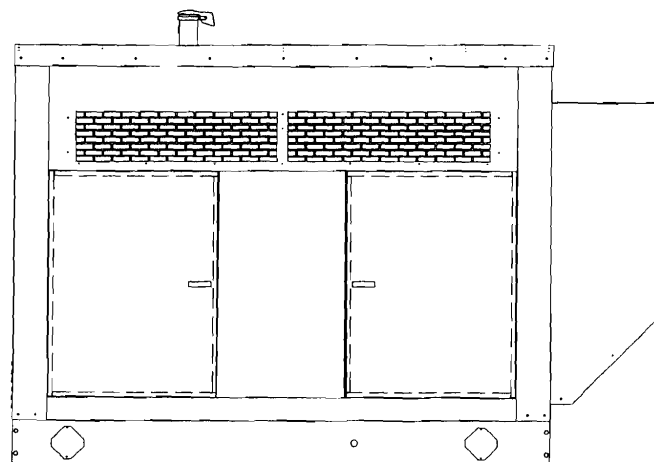
**KOHLER**.POWER SYSTEMS

**Weather and  
Sound Enclosures**

**ISO 9001**  
KOHLE  
POWER SYSTEMS  
NATIONALLY REGISTERED



**Weather Enclosure**



**Sound Enclosure**

### Applicable to the following:

**30-125RZG**

**30/50RZGB**

Kohler enclosures protect stationary generator sets from the elements, animal intrusion, and unwanted entry. The enclosure design allows ample air ensuring optimum generator set performance.

Kohler Co. prototype-tests the generator set inside the enclosure for performance. See the generator set specification sheet for generator set ratings and temperature and altitude derates.

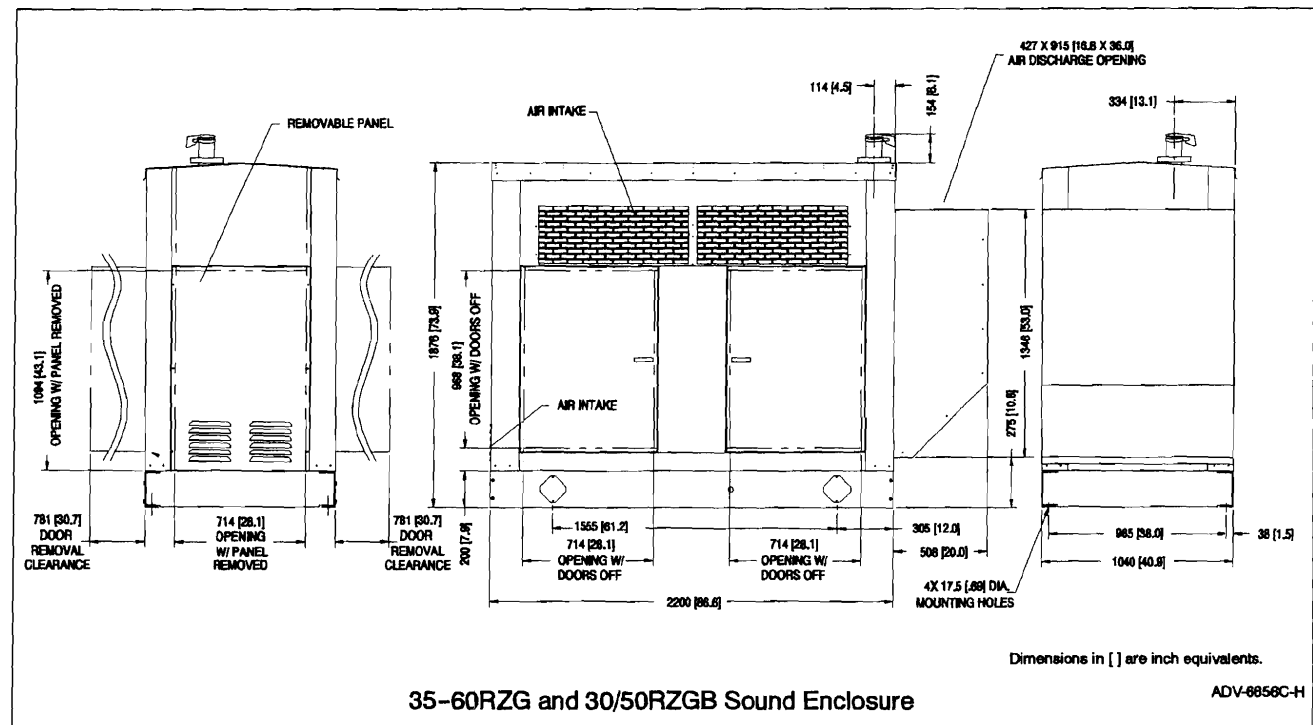
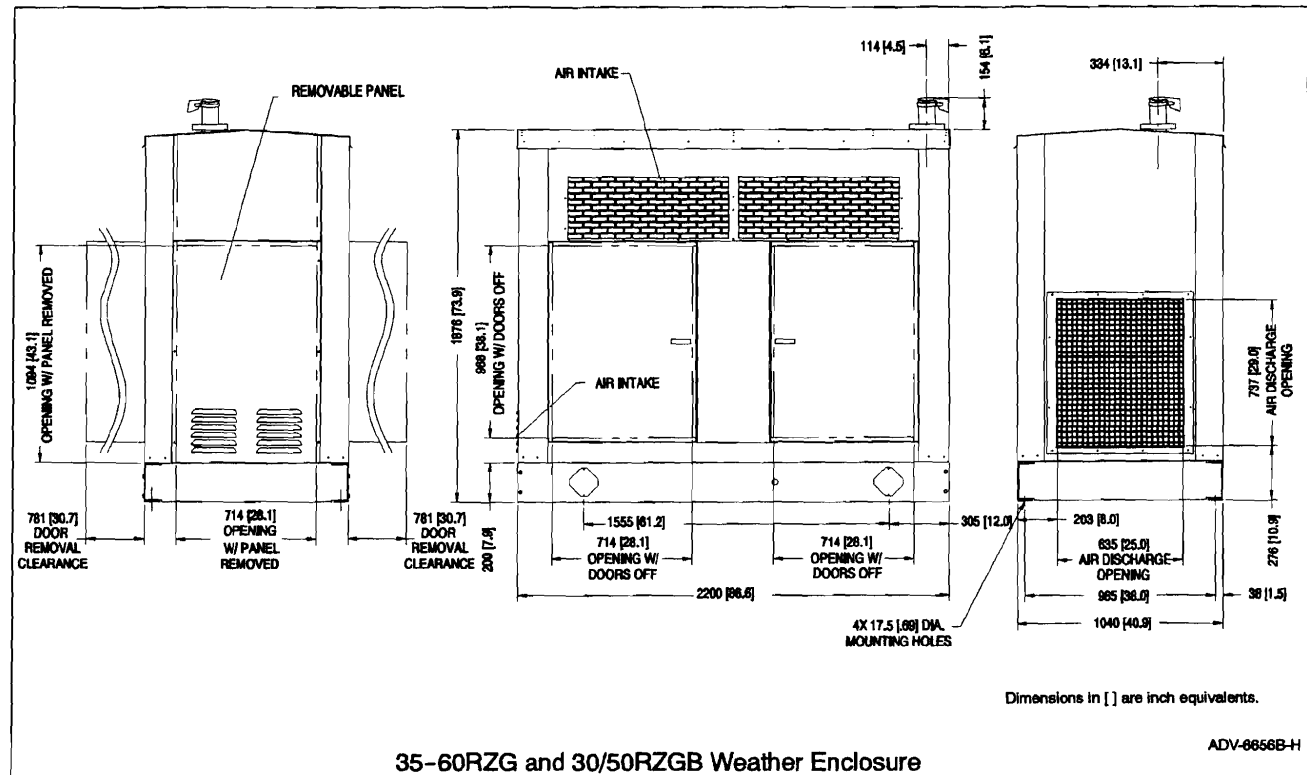
### Weather Enclosure Standard Features

- Enclosed insulated critical silencer with tailpipe and rain cap.
- Skid-mounted, fully corrosion-resistant material construction with hinged and removable doors.
- Fade-, scratch-, and corrosion-resistant Kohler® cream beige and black powder-baked finish.
  - Available steel construction enclosure.
  - Available aluminum construction enclosure.
- Hinged and removable doors.
- Lockable, flush-mounted door latches.
- Automatic door holders.
- Air inlet louvers and baffles to minimize rain and snow entry.
- Pitched enclosure roof to minimize water accumulation.

### Sound Enclosure Standard Features

- Includes all of the weather enclosure features.
- Vertical outlet hoods with 90° angles to redirect air and reduce noise.
- Acoustic insulation meeting UL 94 HF1 flammability classification.





This page contains a detailed description of the Parcel ID you selected. Press the **New Search** button at the bottom of the screen to submit a new query.

### Current Owner Information

**Card Number** 1 of 1  
**Parcel ID** 057 F001001  
**Location** 19 EMERY ST  
**Land Use** GOVERNMENTAL

**Owner Address** PORTLAND HOUSING AUTHORITY  
 14 BAXTER BLVD  
 PORTLAND ME 04101

**Book/Page**  
**Legal** 57-F-1 EMERY ST 19-47  
 DANFORTH ST 282-292  
 SALEM ST 107-131  
 ORANGE ST 8-12 96996SF

### Current Assessed Valuation

Land	Building	Total
\$749,700	\$4,766,600	\$5,516,300

### Building Information

Bldg #	Year Built	# Units	Bldg Sq. Ft.	Identical Units
1	1900	150	0	1

Total Acres	Total Buildings	Sq. Ft.	Structure Type	Building Name
2.227	0		APARTMENT - HIGH RISE	

### Exterior/Interior Information

Section	Levels	Size	Use
1	B1/B1	3080	MULTI-USE STORAGE
1	B2/B2	3080	MULTI-USE STORAGE
1	01/01	15575	APARTMENT
1	02/06	15575	APARTMENT
1	07/08	1500	APARTMENT

Height	Walls	Heating	A/C
8		HW/STEAM	NONE
9		HW/STEAM	NONE
10	BRICK/STONE	HW/STEAM	NONE
10	BRICK/STONE	HW/STEAM	NONE
10	BRICK/STONE	HW/STEAM	NONE
		NONE	NONE
		NONE	NONE
		NONE	NONE

### Building Other Features

Line	Structure Type	Identical Units
------	----------------	-----------------

### Yard Improvements

Year Built	Structure Type	Length or Sq. Ft.	# Units
1972	ASPHALT PARKING	23360	1



**PROJECT INFORMATION**

SCOPE OF WORK: UNMANNED TELECOMMUNICATIONS FACILITY MODIFICATIONS  
 SITE ADDRESS: 284 DANFORTH STREET  
 PORTLAND, ME  
 JURISDICTION: CITY OF PORTLAND  
 CURRENT USE: TELECOMMUNICATIONS FACILITY  
 PROPOSED USE: TELECOMMUNICATIONS FACILITY  
 NOC#: 888-915-5600  
 ZONING: R8  
 TAX MAP #, LOT # MAP 51, BLOCK F, LOT 1



**SITE NUMBER: ME5048**  
**SITE NAME: HARBOR TERRACE**

**DRAWING INDEX**

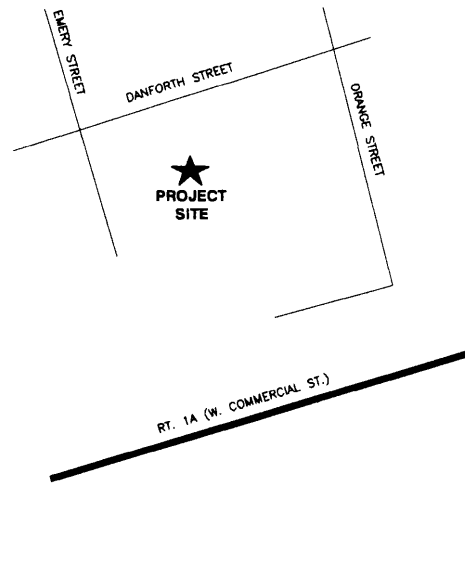
**REV**

**T-1 TITLE SHEET**  
**C-1 SITE PLAN**  
**A-1 EQUIPMENT PLAN**  
**A-2 DETAILS**  
**E-1 ONE-LINE DIAGRAM**

**2**  
**2**  
**2**  
**2**  
**2**

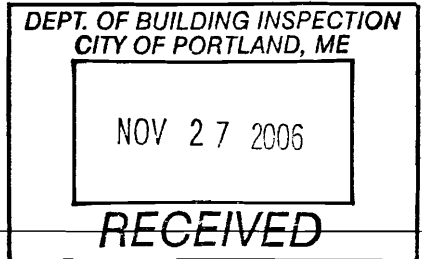
**VICINITY MAP**

FROM BOLTON: TAKE I-495 N VIA THE RAMP ON THE LEFT TOWARD LOWELL. I-495 N BECOMES I-95 N. MERGE ONTO I-295 N VIA EXIT 44 TOWARD SOUTH PORTLAND/DOWNTOWN PORTLAND. TAKE THE US-1 N EXIT- EXIT 4- TOWARD PORTLAND/WATERFRONT. STAY STRAIGHT TO GO ONTO US-1 N / BLUE STAR MEMORIAL HWY. TURN SLIGHT RIGHT ONTO DANFORTH ST.



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3. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE CINGULAR WIRELESS REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



3 WORKING DAYS



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3 WINDSOR ST  
 HAVERHILL, MA 01830  
**Hudson**  
 Design Group, LLC  
 TEL: (617)-549-3913  
 FAX: (978)-336-5586

**SITE NUMBER: ME5048**  
**SITE NAME: HARBOR TERRACE**  
 284 DANFORTH STREET  
 PORTLAND, ME

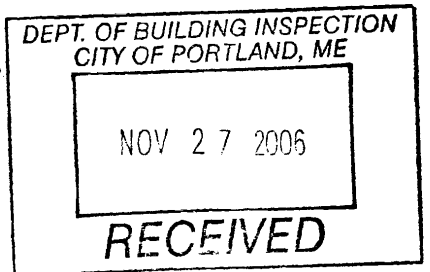
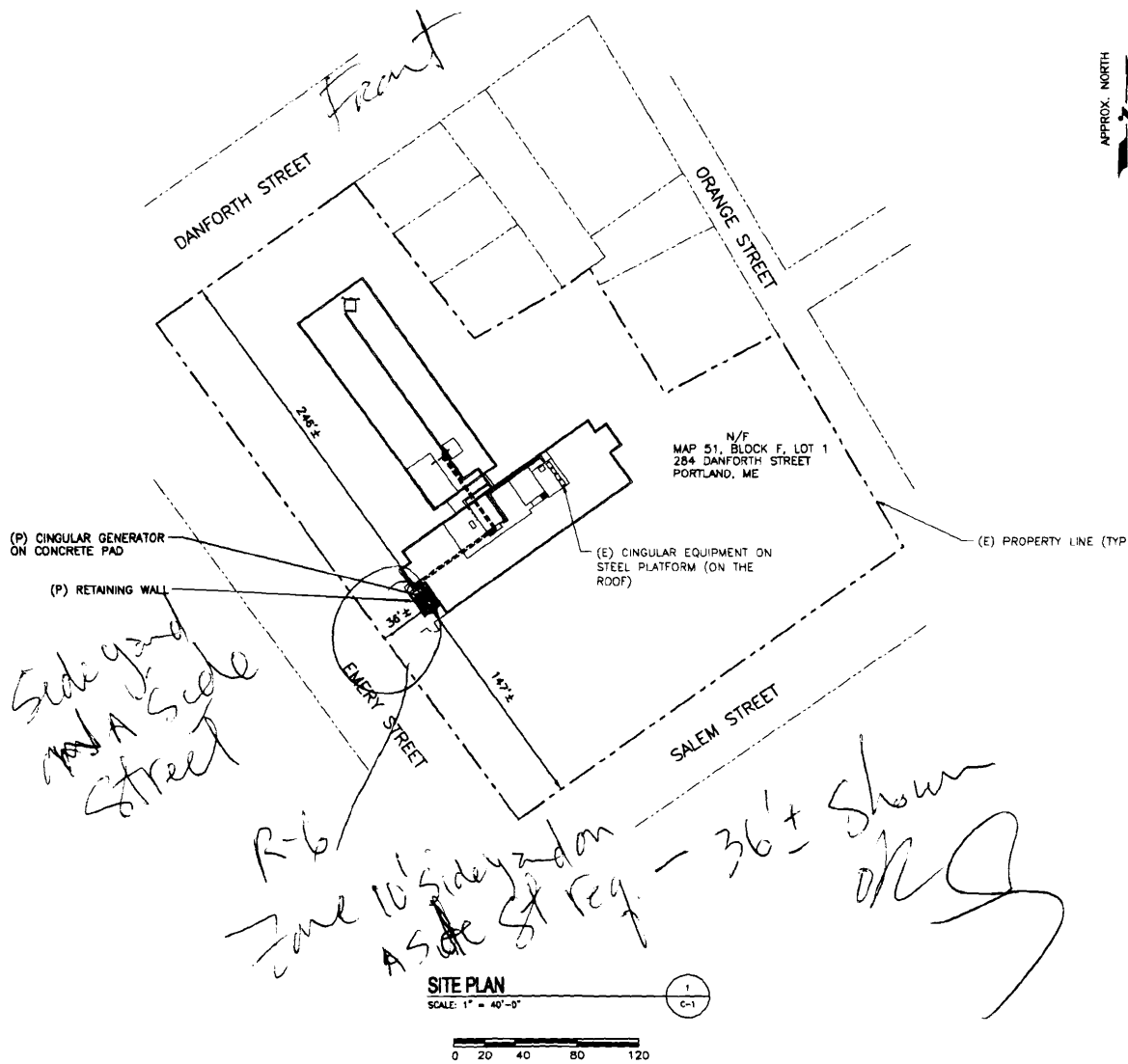


580 MAIN STREET  
 BOLTON, MA 01740

NO.	DATE	REVISIONS	BY	CHK
2	11/22/06	MISC. REVISIONS	AT	DPH
1	08/04/06	FINAL CONSTRUCTION	RH	DPH
0	06/28/06	ISSUED FOR CONSTRUCTION	AT	DPH

SCALE: NOT SHOWN	DESIGNED BY: AT	DRAWN BY: AT	SIGNATURE OF WITNESS: DANIEL P. HAMM NO. 10384	CINGULAR WIRELESS
				TITLE SHEET ERICSSON UMTS (INDOOR)
				DRAWING NUMBER: T-1
				REV: 2



**SOURCE:**

SITE PLAN, PREPARED BY SEMKO TECHNICS, INC.  
FOR CINGULAR WIRELESS, TITLED: "HARBOR TERRACE ROOFTOP",  
REV. D, DATED: 6-25-06.

**SITE SPECIFIC NOTES:**

1. SITE SURVEY HAS NOT BEEN CONDUCTED BY HUDSON DESIGN GROUP, LLC FOR THIS PROJECT. ALL SETBACKS SHOWN ON THIS PLAN IS BASED ON ABOVE REFERENCED DRAWINGS.
2. SETBACKS DIMENSIONS TAKEN FROM THE PROPOSED GENERATOR LOCATION.

**ZONING SUMMARY TABLE**

ZONING DISTRICT: R6			
ASSESSORS MAP: 51 BLOCK F LOT 1			
PROPOSED USE: WIRELESS COMMUNICATION FACILITY			
DIMENSION:	REQUIRED	MINIMUM	PROVIDED
LOT AREA	N/A	N/A	N/A
LOT FRONTAGE	40 FT	N/A	N/A
FRONT YARD SETBACK*	10 FT	246 FT	
SIDE YARD SETBACK*	15 FT	36 FT	
REAR YARD SETBACK*	20 FT	147 FT	
MAXIMUM STRUCTURE HEIGHT	45 FT	N/A	

\* DIMENSIONS MEASURED FROM GENERATOR TO NEAREST LOT LINE.

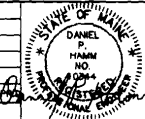
**Hudson Design Group, LLC**  
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HAVERHILL, MA 01830  
TEL: (617)-549-3913  
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284 DANFORTH STREET  
PORTLAND, ME

**cingular WIRELESS**  
580 MAIN STREET  
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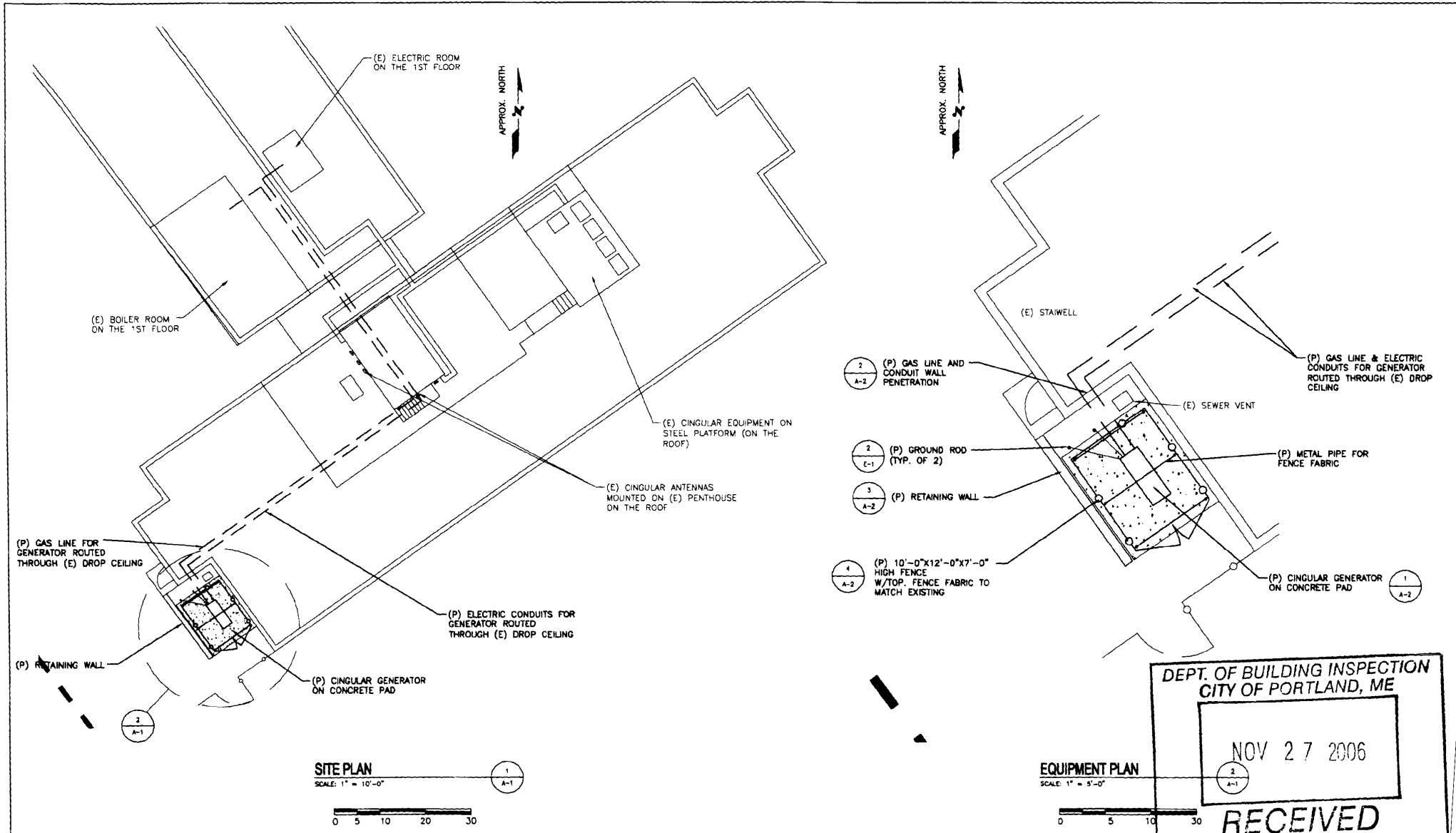
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**CINGULAR WIRELESS**

SITE PLAN

PROJECT NUMBER	DRAWING NUMBER	REV
ME5048	C-1	2



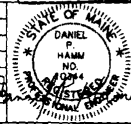

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SCALE: NOT SHOWN    DESIGNED BY: AT    DRAWN BY: AT



**CINGULAR WIRELESS**  
 EQUIPMENT PLAN  
 DRAWING NUMBER: ME5048    A-1

## GENERAL

- ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER IN WRITING.
- DO NOT CHANGE SIZE NOR SPACING OF STRUCTURAL ELEMENTS.
- DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
- BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, AT A MINIMUM.
- DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUND DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE BEGINNING WORK.
- INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE APPROVAL.
- EACH CONTRACTOR SHALL COOPERATE WITH THE OWNER'S REPRESENTATIVE, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
- CONTRACTOR TO FOLLOW STATE, LOCAL AND NATIONAL CODES AS APPLICABLE.

## CONCRETE NOTES

- DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING APPLICABLE CODES: ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"; ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE";
- MIX DESIGN SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO PLACING CONCRETE.
- CONCRETE SHALL BE NORMAL WEIGHT, 5% AIR ENTRAINED (±1.5%) WITH A MAXIMUM 4" SLUMP. CONCRETE SAMPLES SHALL BE TAKEN FROM EACH CONCRETE BATCH. THREE SAMPLES SHALL BE PREPARED ONE FOR A 7-DAY TEST HAVING A MIN. COMPRESSIVE STRENGTH 2,400 PSI, ONE FOR A 28-DAY TEST HAVING A MIN. COMPRESSIVE STRENGTH OF 3,000 PSI, AND ONE SPARE.
- MAXIMUM AGGREGATE SIZE SHALL BE 1".
- THE FOLLOWING MATERIALS SHALL BE USED:
 

PORTLAND CEMENT:	ASTM C 150, TYPE I
REINFORCEMENT:	ASTM A 815, GRADE 60
NORMAL WEIGHT AGGREGATE:	NO. 55
WATER:	DRINKABLE
ADMITTURES:	NON-CHLORIDE CONTAINING
- REINFORCING DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 318.
- REINFORCING STEEL SHALL CONFORM TO ASTM A 815, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
 

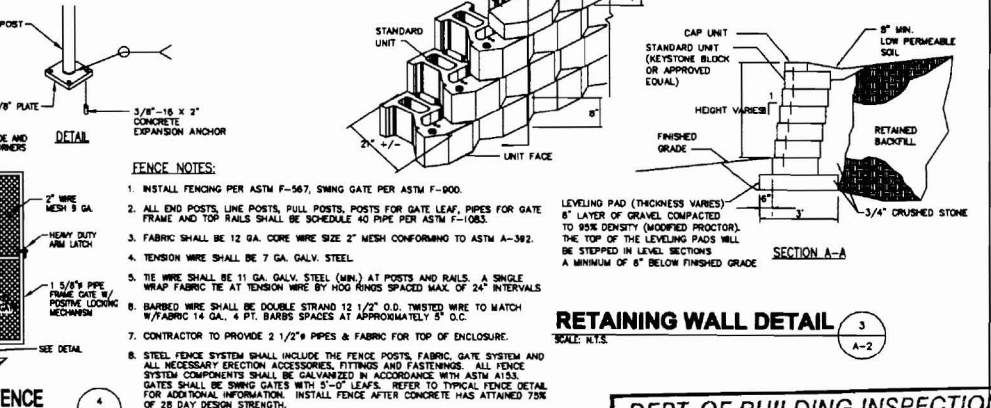
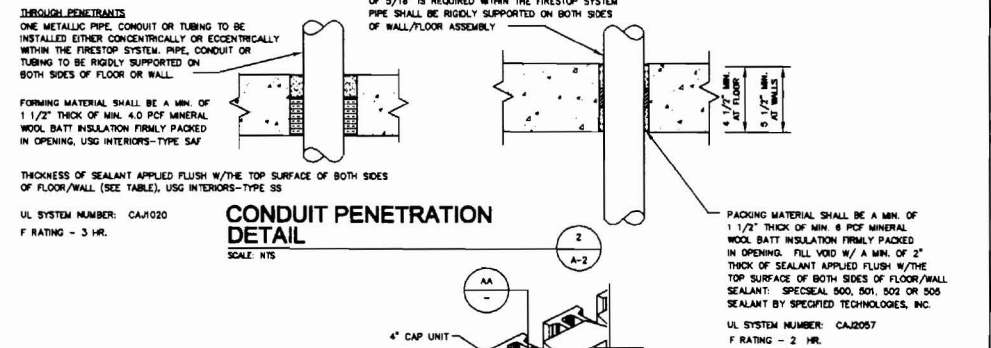
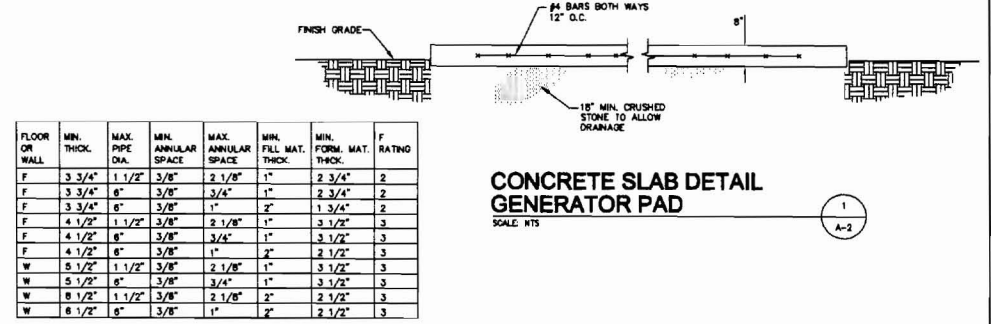
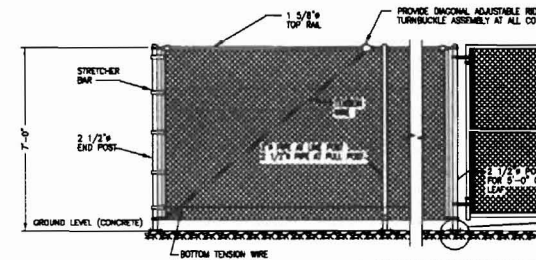
CONCRETE CAST AGAINST EARTH.....	3 IN.
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 AND LARGER.....	2 IN.
#6 AND SMALLER & WWF.....	1 1/2 IN.
CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:	
SLAB AND WALL.....	3/4 IN.
BEAMS AND COLUMNS.....	1 1/2 IN.
- A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
- INSTALLATION OF CONCRETE ANCHORS, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE.
- CURING COMPOUNDS SHALL CONFORM TO ASTM C-309.
- ADMITTURES SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED IN ACI-301.
- DO NOT WELD OR TACKLE REINFORCING STEEL.
- ALL DOWELS, ANCHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, GROUNDING AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT.
- LOCATE ADDITIONAL CONSTRUCTION JOINTS REQUIRED TO FACILITATE CONSTRUCTION AS ACCEPTABLE TO ENGINEER. PLACE REINFORCEMENT CONTINUOUSLY THROUGH JOINT.
- REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.
- PLACE CONCRETE IN A UNIFORM MANNER TO PREVENT THE FORMATION OF COLD JOINTS AND OTHER PLANES OF WEAKNESS. VIBRATE THE CONCRETE TO FULLY EMBED REINFORCING. DO NOT USE VIBRATORS TO TRANSPORT CONCRETE THROUGH CHUTES OR FORMWORK.
- DO NOT PLACE CONCRETE IN WATER, ICE, OR ON FROZEN GROUND.
- DO NOT ALLOW CONCRETE SUBBASE TO FREEZE DURING CONCRETE CURING AND SETTING PERIOD, OR FOR A MINIMUM OF 14 DAYS AFTER PLACEMENT.

- FOR COLD-WEATHER AND HOT-WEATHER CONCRETE PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS. IN EITHER CASE, MATERIALS CONTAINING CHLORIDE, CALCIUM, SALTS, ETC. SHALL NOT BE USED. PROTECT FRESH CONCRETE FROM WEATHER FOR 7 DAYS MINIMUM.
- UNLESS INDICATED OTHERWISE ON THE DRAWINGS, REINFORCEMENT SPLICES SHALL MEET CLASS B TENSION LAP REQUIREMENTS IN ACCORDANCE WITH ALL PROVISIONS OF ACI 318 LATEST EDITION, UNLESS NOTED OTHERWISE.
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## EXCAVATIONS/ FOUNDATION

- FOUNDATION EXCAVATION SHALL BE HAND-TRIMMED TO REMOVE LOOSE MATERIALS.
- DO NOT PLACE FOOTINGS IN WATER OR ON FROZEN GROUND.
- SOIL BEARING SURFACES, PREVIOUSLY ACCEPTED BY GEOTECHNICAL ENGINEER, WHICH ARE ALLOWED TO BECOME SATURATED, FROZEN OR DISTURBED SHALL BE REWORKED TO SATISFACTION OF GEOTECHNICAL ENGINEER.
- DO NOT ALLOW GROUND BENEATH FOOTINGS TO FREEZE.
- ALL STRUCTURAL BACKFILL AND SUBBASE UNDER SLABS SHALL BE SELECT STRUCTURAL FILL MEETING THE GRADATION AND SOUNDNESS REQUIREMENTS IN ACCORDANCE WITH THE FOLLOWING CRITERIA:
  - GRADATION. THE MATERIAL SHALL HAVE THE FOLLOWING GRADATION:
 

SEIVE SIZE	PERCENT PASSING BY WEIGHT
4 INCH	100
NO. 40	0 TO 70
NO. 200	0 TO 40
  - MATERIALS SHALL BE SUBSTANTIALLY FREE OF SHALE OR OTHER SOFT, POOR DURABILITY PARTICLES. IF TESTING IS ELECTED BY OWNER, MATERIAL WITH A MACHESLUM SULFATE SOUNDNESS LOSS EXCEEDING 30% WILL BE REJECTED.
- COMPACT TO 95% STANDARD PROCTOR DENSITY PER ASTM D-998.
- SUBGRADE BELOW SLABS ON GRADE SHALL BE REVIEWED AND ACCEPTED BY GEOTECHNICAL ENGINEER (OR PROJECT MANAGER) BEFORE CONCRETE SLAB PLACEMENT.
- ALL LOOSE AND/OR ORGANIC MATERIAL SHALL BE REMOVED PRIOR TO PREPARATION OF THE AREA FOR PLACEMENT OF STRUCTURAL BACKFILL. OVERALL PLAN AREA OF WORK SHALL EXTEND 3'-0" MINIMUM BEYOND THE FINAL DIMENSIONS.
- SCARIFY THE EXISTING SOILS TO A DEPTH OF 6" AND RE-COMPACT USING A PLATE TAMPER. ANY SOFT AREAS SHALL BE OVEREXCAVATED 12" AND BACKFILLED WITH MATERIALS AND COMPACTION REQUIREMENTS SHOWN ON THE DRAWINGS.
- PLACEMENT AND COMPACTION OF STRUCTURAL BACKFILL AND SUBBASE SHALL BE DONE IN 8' LIFTS. EXCAVATE FOR THE FOOTING EDGE AS SHOWN ON THE DRAWINGS.
- CONTRACTOR TO GRADE SITE LEVEL WITH EXISTING, TWO FEET BEYOND PROPOSED EQUIPMENT PAD FOOTPRINT, THEN TAPER TO EXISTING GRADE IF REQUIRED AT A MAXIMUM OF 3:1 SLOPE.



3 WINDSOR ST  
HAVERHILL, MA 01830  
**Hudson**  
Design Group, Inc.  
TEL: (617)-549-3913  
FAX: (978)-336-5586

**SITE NUMBER: MES048**  
**SITE NAME: HARBOR TERRACE**  
284 DANFORTH STREET  
PORTLAND, ME

**cingular**  
WIRELESS  
580 MAIN STREET  
BOLTON, MA 01740

NO.	DATE	REVISIONS	BY	CHK
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0	08/28/06	ISSUED FOR CONSTRUCTION	AT	DPH

SCALE: NOT SHOWN DESIGNED BY: AT DRAWN BY: AT

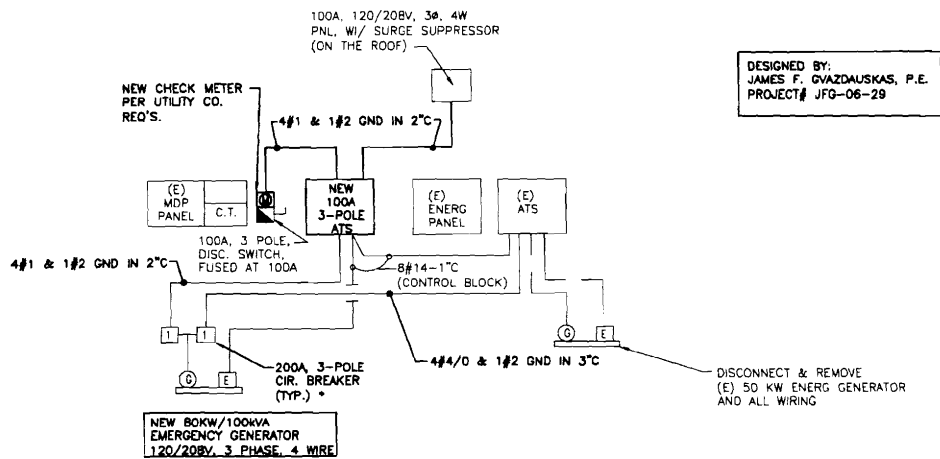


**DEPT. OF BUILDING INSPECTION**  
**CITY OF PORTLAND, ME**  
**CINGULAR WIRELESS**

DETAILS  
NOV 27 2006

JOB NUMBER: MES048 DRAWING NUMBER: A-2 REV: 2

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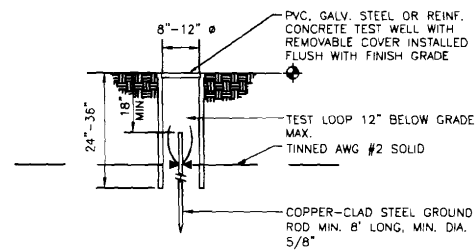


\* FURNISH & INSTALL CIRCUIT  
BREAKERS AT  
NEW GENERATOR

**ONE-LINE DIAGRAM**

SCALE: NTS

1  
E-1



**GROUND ROD TEST WELL**

SCALE: NTS

2  
E-1

DEPT. OF BUILDING INSPECTION  
CITY OF PORTLAND, ME

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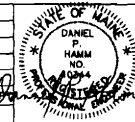
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CINGULAR WIRELESS

ONE-LINE DIAGRAM

PROJECT NUMBER	DRAWING NUMBER	REV
ME5048	E-1	2





## APPLICATION FOR EXEMPTION FROM SITE PLAN REVIEW

Harbor Terrace / William Pride  
Applicant COMMUNICATIONS, INC

11/27/06  
Application Date

20 Center Park Rd - Topsham  
Applicant's Mailing Address

Project Name/Description

George C. Moore - 798-5540  
Consultant/Agent/Phone Number

1284 Dan Gully / 19 Family  
Address of Proposed Site

CBL: 057-F-001

Description of Proposed Development:

large hall An emergency room for ADA  
ground for emergency power back up

Please Attach Sketch/Plan of Proposal/Development

Criteria for Exemptions:

See Section 14-523 (4) on back side of form

- a) Within Existing Structures; No New Buildings, Demolitions or Additions
- b) Footprint Increase Less Than 500 Sq. Ft.
- c) No New Curb Cuts, Driveways, Parking Areas
- d) Curbs and Sidewalks in Sound Condition/Comply with ADA
- e) No Additional Parking/ No Traffic Increase
- f) No Stormwater Problems
- g) Sufficient Property Screening
- h) Adequate Utilities

Applicant's Assessment  
(Yes, No, N/A)

Planning Office  
Use Only

X

X

X

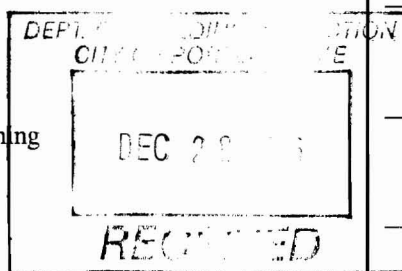
X

X

X

No

X



Planning Division Use Only

**PROJECT INFORMATION**

SCOPE OF WORK: UNMANNED TELECOMMUNICATIONS FACILITY MODIFICATIONS  
 SITE ADDRESS: 284 DANFORTH STREET  
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 NOC#: 886-915-5600  
 ZONING: R6  
 TAX MAP #, LOT # MAP 51, BLOCK F, LOT 1



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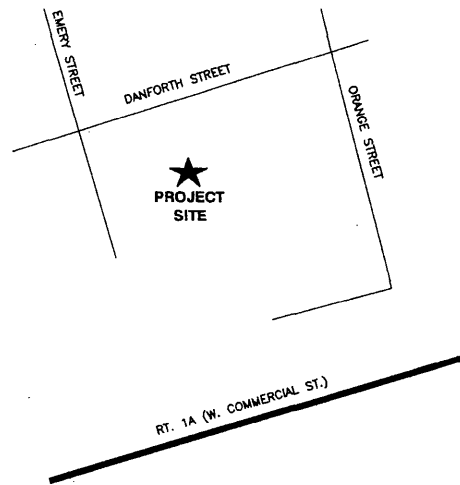
**DRAWING INDEX**

**REV**

T-1	TITLE SHEET	2
C-1	SITE PLAN	2
A-1	EQUIPMENT PLAN	2
A-2	DETAILS	2
E-1	ONE-LINE DIAGRAM	2

**VICINITY MAP**

FROM BOLTON: TAKE I-495 N VIA THE RAMP ON THE LEFT TOWARD LOWELL. I-495 N BECOMES I-95 N. MERGE ONTO I-295 N VIA EXIT 44 TOWARD SOUTH PORTLAND/DOWNTOWN PORTLAND. TAKE THE US-1 N EXIT - EXIT 4- TOWARD PORTLAND/WATERFRONT. STAY STRAIGHT TO GO ONTO US-1 N / BLUE STAR MEMORIAL HWY. TURN SLIGHT RIGHT ONTO DANFORTH ST.



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DEPT. OF BUILDING INSPECTION  
 CITY OF PORTLAND, ME

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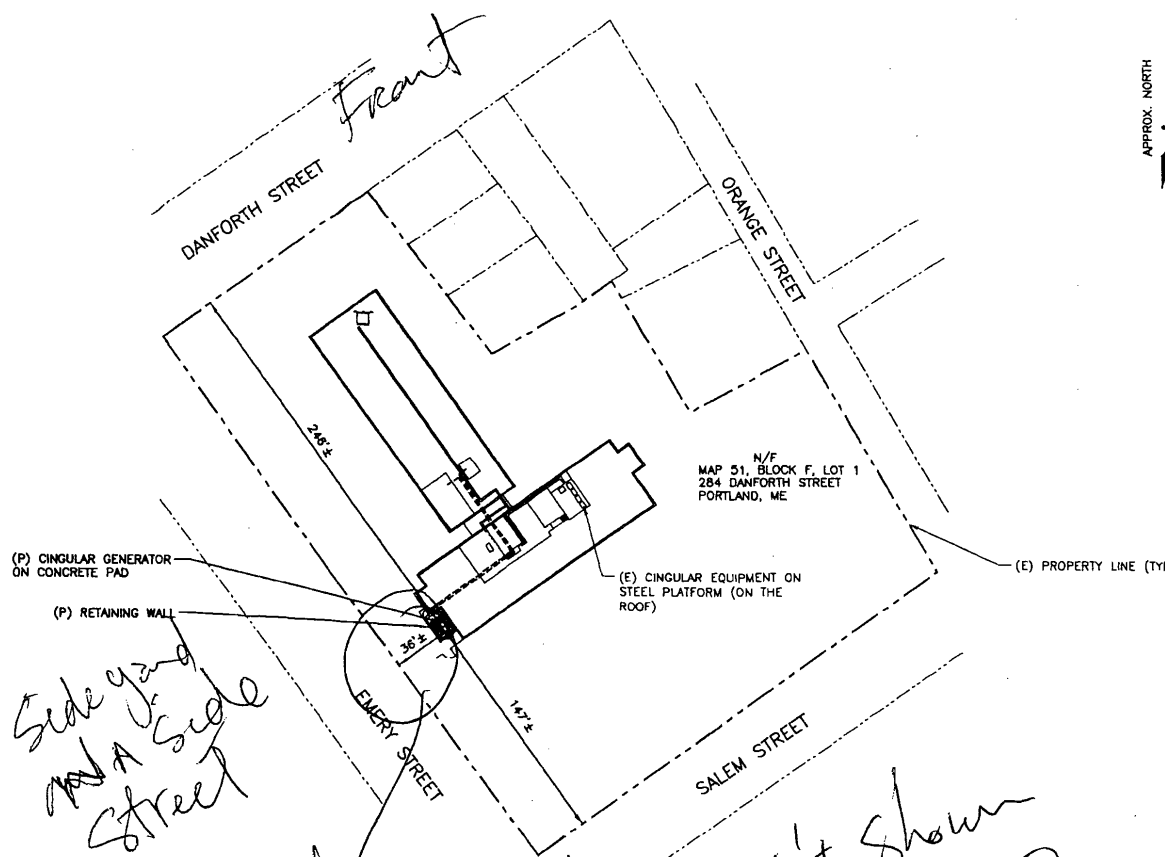
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 284 DANFORTH STREET  
 PORTLAND, ME



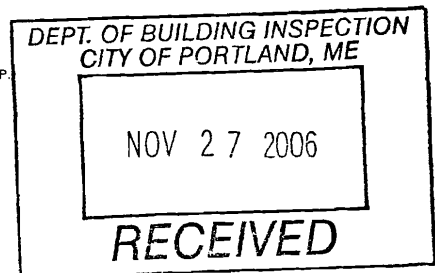
NO.		DATE	REVISIONS	BY	CHK	DATE	NO. OF SHEETS	DRAWING NUMBER	REV
2	11/22/06		MISC. REVISIONS	AT	DPH				
1	08/04/06		FINAL CONSTRUCTION	RH	DPH				
0	08/28/06		ISSUED FOR CONSTRUCTION	AT	DPH				
SCALE:		DESIGNED BY:		DRAWN BY:		PROJECT NUMBER:		DRAWING NUMBER	
NOT SHOWN		AT		AT		ME5048		T-1	
								2	

CINGULAR WIRELESS

TITLE SHEET  
 ERICSSON UMTS (INDOOR)



APPROX. NORTH



**SOURCE:**

SITE PLAN, PREPARED BY SEINGO TECHNIKS, INC. FOR CINGULAR WIRELESS, TITLED: "HARBOR TERRACE ROOFTOP", REV. 0, DATED: 4-25-06.

**SITE SPECIFIC NOTES:**

1. SITE SURVEY HAS NOT BEEN CONDUCTED BY HUDSON DESIGN GROUP, LLC FOR THIS PROJECT. ALL SETBACKS SHOWN ON THIS PLAN IS BASED ON ABOVE REFERENCED DRAWINGS.
2. SETBACKS DIMENSIONS TAKEN FROM THE PROPOSED GENERATOR LOCATION.

**SITE PLAN**

SCALE: 1" = 40'-0"



**ZONING SUMMARY TABLE**

ZONING DISTRICT: R8		ASSESSORS MAP: 51 BLOCK F LOT 1	
PROPOSED USE: WIRELESS COMMUNICATION FACILITY			
DIMENSION:	REQUIRED MINIMUM	PROVIDED	
LOT AREA	N/A	N/A	
LOT FRONTAGE	40 FT	N/A	
FRONT YARD SETBACK*	10 FT	346 FT	
SIDE YARD SETBACK*	15 FT	36 FT	
REAR YARD SETBACK*	20 FT	147 FT	
MAXIMUM STRUCTURE HEIGHT	45 FT	N/A	

\* DIMENSIONS MEASURED FROM GENERATOR TO NEAREST LOT LINE.



3 WINDSOR ST  
HAVERHILL, MA 01830  
**Hudson**  
Design Group, LLC  
TEL: (617)-549-3913  
FAX: (978)-336-5586

**SITE NUMBER: ME5048**  
**SITE NAME: HARBOR TERRACE**  
284 DANFORTH STREET  
PORTLAND, ME



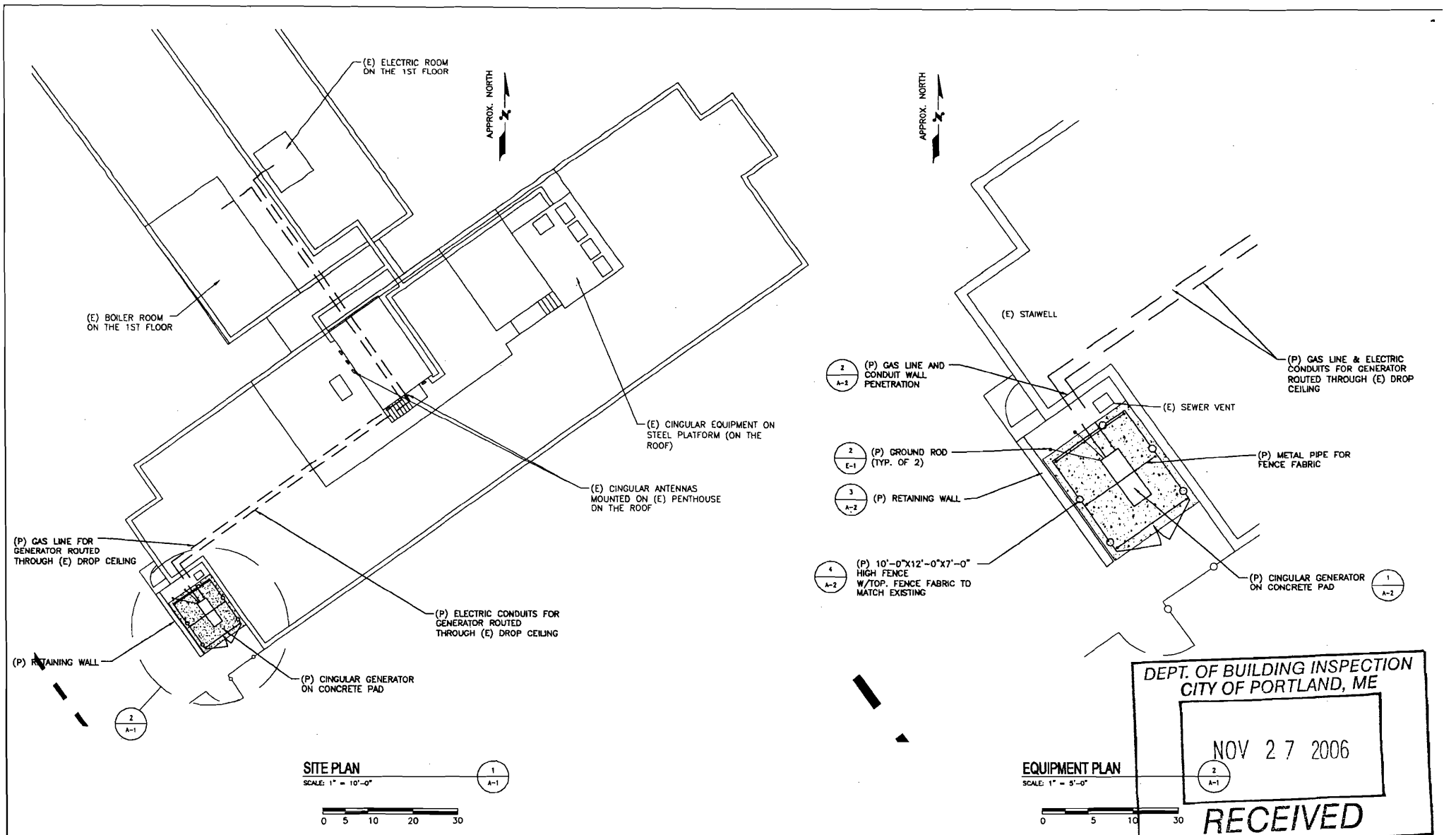
580 MAIN STREET  
BOLTON, MA 01740

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1	06/20/06	FINAL CONSTRUCTION	RH	DPH	
0	08/28/06	ISSUED FOR CONSTRUCTION	AT	DPH	

SCALE: NOT SHOWN    DESIGNED BY: AT    DRAWN BY: AT

STATE OF MAINE  
DANIEL P. HAHAM  
NO. 0084  
PLANNING COMMISSIONER

PROJECT NUMBER	DRAWING NUMBER	REV
ME5048	C-1	2



3 WINDSOR ST  
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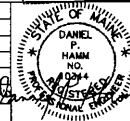
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NO.	DATE	REVISIONS	BY	CHK

SCALE: NOT SHOWN    DESIGNED BY: AT    DRAWN BY: AT



**CINGULAR WIRELESS**

EQUIPMENT PLAN

PROJECT NUMBER: ME5048    DRAWING NUMBER: A-1

## GENERAL

- ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER IN WRITING.
- DO NOT CHANGE SIZE NOR SPACING OF STRUCTURAL ELEMENTS.
- DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
- BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, AT A MINIMUM.
- DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUND DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE BEGINNING WORK.
- INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE APPROVAL.
- EACH CONTRACTOR SHALL COOPERATE WITH THE OWNER'S REPRESENTATIVE, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
- CONTRACTOR TO FOLLOW STATE, LOCAL AND NATIONAL CODES AS APPLICABLE.

## CONCRETE NOTES

- DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING APPLICABLE CODES: ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"; ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
- MIX DESIGN SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO PLACING CONCRETE.
- CONCRETE SHALL BE NORMAL WEIGHT, SIX AIR ENTRAINED (41.0%) WITH A MAXIMUM 4" SLUMP. CONCRETE SAMPLES SHALL BE TAKEN FROM EACH CONCRETE BATCH. THREE SAMPLES SHALL BE PREPARED ONE FOR A 7-DAY TEST HAVING A MIN. COMPRESSIVE STRENGTH 2,400 PSI, ONE FOR A 28-DAY TEST HAVING A MIN. COMPRESSIVE STRENGTH OF 3,000 PSI, AND ONE SPARE.
- MAXIMUM AGGREGATE SIZE SHALL BE 1".
- THE FOLLOWING MATERIALS SHALL BE USED:
 

PORTLAND CEMENT:	ASTM C 150, TYPE I
REINFORCEMENT:	ASTM A 615, GRADE 60
NORMAL WEIGHT AGGREGATE:	ASTM C 33
WATER:	DRINKABLE
ADMixTURES:	NON-CHLORIDE CONTAINING
- REINFORCING DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 318.
- REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
 

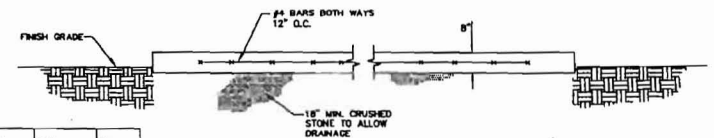
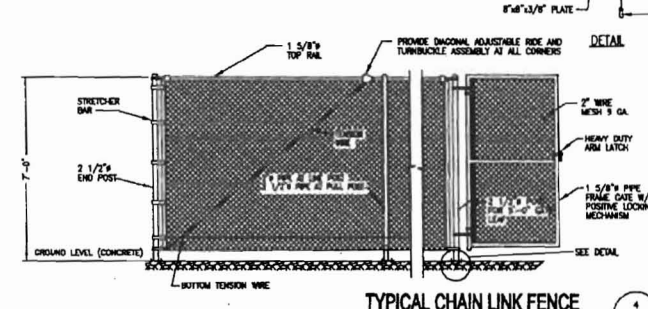
CONCRETE CAST AGAINST EARTH.....	3 IN.
CONCRETE EXPOSED TO EARTH OR WEATHER:	
AS AND LARGER.....	2 IN.
AS AND SMALLER & W/F.....	1 1/2 IN.
CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:	
SLAB AND WALL.....	3/4 IN.
BEAMS AND COLUMNS.....	1 1/2 IN.
- A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
- INSTALLATION OF CONCRETE ANCHOR SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHICH DRILLING HOLES IN CONCRETE.
- CURING COMPOUNDS SHALL CONFORM TO ASTM C-309.
- ADMixTURES SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED IN ACI-301.
- DO NOT WELD OR TACKWELD REINFORCING STEEL.
- ALL DOWELS, ANCHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, GROUNDING AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT.
- LOCATE ADDITIONAL CONSTRUCTION JOINTS REQUIRED TO FACILITATE CONSTRUCTION AS ACCEPTABLE TO ENGINEER. PLACE REINFORCEMENT CONTINUOUSLY THROUGH JOINT.
- REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.
- PLACE CONCRETE IN A UNIFORM MANNER TO PREVENT THE FORMATION OF COLD JOINTS AND OTHER PLANES OF WEAKNESS. VIBRATE THE CONCRETE TO FULLY CURBED REINFORCING. DO NOT USE VIBRATORS TO TRANSPORT CONCRETE THROUGH CHUTES OR FORMWORK.
- DO NOT PLACE CONCRETE IN WATER, ICE, OR ON FROZEN GROUND.
- DO NOT ALLOW CONCRETE SUBBASE TO FREEZE DURING CONCRETE CURING AND SETTING PERIOD, OR FOR A MINIMUM OF 14 DAYS AFTER PLACEMENT.

- FOR COLD-WEATHER AND HOT-WEATHER CONCRETE PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS. IN EITHER CASE, MATERIALS CONTAINING CHLORIDE, CALCIUM, SALTS, ETC. SHALL NOT BE USED. PROTECT FRESH CONCRETE FROM WEATHER FOR 7 DAYS MINIMUM.
- UNLESS INDICATED OTHERWISE ON THE DRAWINGS, REINFORCEMENT SPLICES SHALL MEET CLASS B, TENSION LAP REQUIREMENTS IN ACCORDANCE WITH ALL PROVISIONS OF ACI 318 LATEST EDITION, UNLESS NOTED OTHERWISE.
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## EXCAVATIONS / FOUNDATION

- FOUNDATION EXCAVATION SHALL BE HAND-TRIMMED TO REMOVE LOOSE MATERIALS.
- DO NOT PLACE FOOTINGS IN WATER OR ON FROZEN GROUND.
- SOIL BEARING SURFACES, PREVIOUSLY ACCEPTED BY GEOTECHNICAL ENGINEER, WHICH ARE ALLOWED TO BECOME SATURATED, FROZEN OR DISTURBED SHALL BE REWORKED TO SATISFACTION OF GEOTECHNICAL ENGINEER.
- DO NOT ALLOW GROUND BENEATH FOOTINGS TO FREEZE.
- ALL STRUCTURAL BACKFILL AND SUBBASE UNDER SLABS SHALL BE SELECT STRUCTURAL FILL MEETING THE GRADATION AND SOUNDNESS REQUIREMENTS IN ACCORDANCE WITH THE FOLLOWING CRITERIA:
  - GRADATION: THE MATERIAL SHALL HAVE THE FOLLOWING GRADATION:
 

SEIVE SIZE	PERCENT PASSING BY WEIGHT
4 INCH	100
NO. 40	0 TO 70
NO. 200	0 TO 40
  - MATERIALS SHALL BE SUBSTANTIALLY FREE OF SHALE OR OTHER SOFT, POOR DURABILITY PARTICLES. IF TESTING IS SELECTED BY OWNER, MATERIAL WITH A MAGNESIUM SULFATE SOUNDNESS LOSS EXCEEDING 30% WILL BE REJECTED.
- COMPACT TO 95% STANDARD PROCTOR DENSITY PER ASTM D-698.
- SUBGRADE BELOW SLABS ON GRADE SHALL BE REVEALED AND ACCEPTED BY GEOTECHNICAL ENGINEER (OR PROJECT MANAGER) BEFORE CONCRETE SLAB PLACEMENT.
- ALL LOOSE AND/OR ORGANIC MATERIAL SHALL BE REMOVED PRIOR TO PREPARATION OF THE AREA FOR PLACEMENT OF STRUCTURAL BACKFILL. OVERALL PLAN AREA OF WORK SHALL EXTEND 3'-0" MINIMUM BEYOND THE FINAL DIMENSIONS.
- SCAFFRY THE EXISTING SOILS TO A DEPTH OF 6" AND RE-COMPACT USING A PLATE TAMPER. ANY SOFT AREAS SHALL BE OVEREXCAVATED 12" AND BACKFILLED WITH MATERIALS AND COMPACTION REQUIREMENTS SHOWN ON THE DRAWINGS.
- PLACEMENT AND COMPACTION OF STRUCTURAL BACKFILL AND SUBBASE SHALL BE DONE IN 8" LIFTS. EXCAVATE FOR THE FOOTING EDGE AS SHOWN ON THE DRAWINGS.
- CONTRACTOR TO GRADE SITE LEVEL WITH EXISTING, TWO FEET BEYOND PROPOSED EQUIPMENT PAD FOOTPRINT, THEN TAPER TO EXISTING GRADE IF REQUIRED AT A MAXIMUM OF 3:1 SLOPE.



FLOOR OR WALL	MIN. THICK.	MAX. PIPE DIA.	MIN. ANNULAR SPACE	MAX. ANNULAR SPACE	MIN. FILL MAT. THICK.	MIN. FLOOR MAT. THICK.	F RATING
F	3 3/4"	1 1/2"	3/8"	2 1/8"	1"	2 3/4"	2
F	3 3/4"	8"	3/8"	3/4"	1"	2 3/4"	2
F	3 3/4"	8"	3/8"	1"	2"	1 3/4"	2
F	4 1/2"	1 1/2"	3/8"	2 1/8"	1"	3 1/2"	3
F	4 1/2"	8"	3/8"	3/4"	1"	3 1/2"	3
F	4 1/2"	8"	3/8"	1"	2"	2 1/2"	3
W	6 1/2"	1 1/2"	3/8"	2 1/8"	1"	3 1/2"	3
W	5 1/2"	8"	3/8"	3/4"	1"	3 1/2"	3
W	6 1/2"	1 1/2"	3/8"	2 1/8"	2"	2 1/2"	3
W	8 1/2"	8"	3/8"	1"	2"	2 1/2"	3

## THROUGH PENETRANTS

ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. PIPES, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL.

FORMING MATERIAL SHALL BE A MIN. OF 1 1/2" THICK OF MIN. 4.0 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED IN OPENING, USG INTERIORS-TYPE 5AF

THICKNESS OF SEALANT APPLIED FLUSH W/THE TOP SURFACE OF BOTH SIDES OF FLOOR/WALL (SEE TABLE), USG INTERIORS-TYPE 55

UL SYSTEM NUMBER: CA1020

F RATING - 3 HR.

## CONDUIT PENETRATION DETAIL

SCALE: NTS

A-2

AA

4" CAP UNIT

STANDARD UNIT

UNIT FACE

2"

2"

2"

2"

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2"

## FENCE NOTES:

- INSTALL FENCING PER ASTM F-567, SWING GATE PER ASTM F-900.
- ALL END POSTS, LINE POSTS, PULL POSTS, POSTS FOR GATE LEAF, PIPES FOR GATE FRAME AND TOP RAILS SHALL BE SCHEDULE 40 PIPE PER ASTM F-1083.
- FABRIC SHALL BE 12 GA. CORE WIRE SIZE 2" MESH CONFORMING TO ASTM A-392.
- TENSION WIRE SHALL BE 7 GA. GALV. STEEL.
- TE WIRE SHALL BE 11 GA. GALV. STEEL (MIN.) AT POSTS AND RAILS. A SINGLE WRAP FABRIC TIE AT TENSION WIRE BY HOO RINGS SPACED MAX. OF 24" INTERVALS.
- BARRED WIRE SHALL BE DOUBLE STRAND 12 1/2" O.D. TWISTED WIRE TO MATCH W/FABRIC 14 GA., 4 PT. BARBS SPACES AT APPROXIMATELY 5" O.C.
- CONTRACTOR TO PROVIDE 2 1/2" PIPES & FABRIC FOR TOP OF ENCLOSURE.
- STEEL FENCE SYSTEM SHALL INCLUDE THE FENCE POSTS, FABRIC, GATE SYSTEM AND ALL NECESSARY ERECTION ACCESSORIES, FITTINGS AND FASTENINGS. ALL FENCE SYSTEM COMPONENTS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153. GATES SHALL BE SWING GATES WITH 5'-0" LEAF. REFER TO TYPICAL FENCE DETAIL FOR ADDITIONAL INFORMATION. INSTALL FENCE AFTER CONCRETE HAS ATTAINED 75% OF 28 DAY DESIGN STRENGTH.

## RETAINING WALL DETAIL

SCALE: NTS

A-2

AA

4"

4"

4"

4"

4"

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4"

4"

4"

4"

4"

4"

4"

4"

4"

4"

4"

4"

4"

4"

DEPT. OF BUILDING INSPECTIC  
CITY OF PORTLAND, ME

CINGULAR WIRELESS

DETAILS

NOV 27 2006

MES048

A-2

RECEIVED

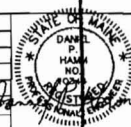
3 WINDSOR ST  
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**Hudson**  
Design Group  
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FAX: (978)-336-5586

SITE NUMBER: MES048  
SITE NAME: HARBOR TERRACE  
284 DANFORTH STREET  
PORTLAND, ME

**cingular**  
WIRELESS  
580 MAIN STREET  
BOLTON, MA 01740

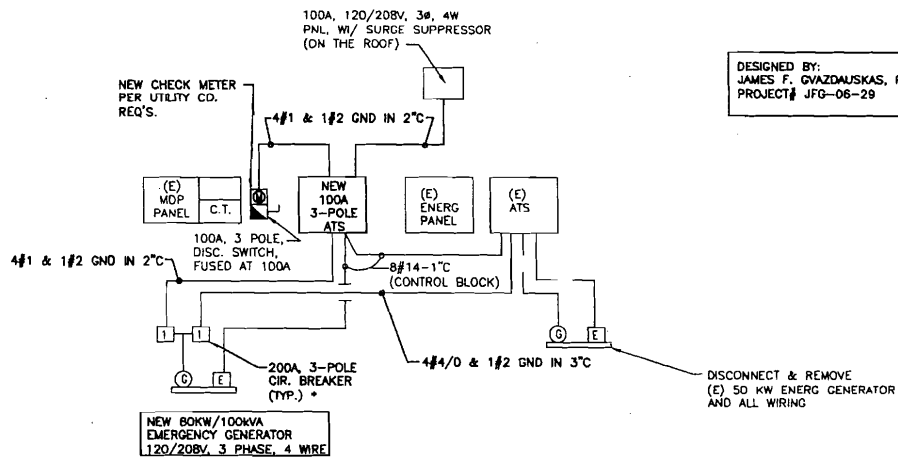
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NO.:	MES048
DATE:	NOV 27 2006
SCALE:	A-2

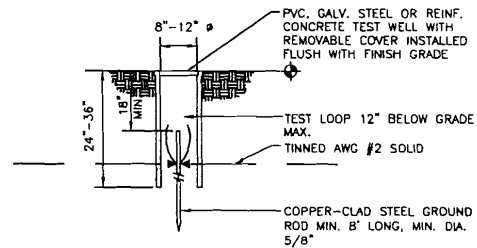
DESIGNED BY:  
JAMES F. GVAZDAUSKAS, P.E.  
PROJECT# JFG-06-29



\* FURNISH & INSTALL CIRCUIT  
BREAKERS AT  
NEW GENERATOR

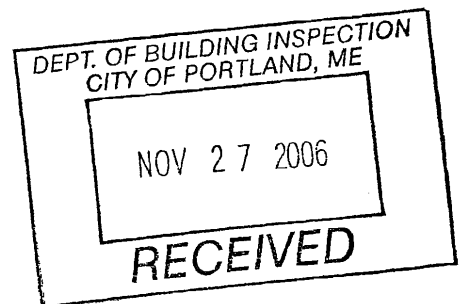
**ONE-LINE DIAGRAM**

SCALE: NTS



**GROUND ROD TEST WELL**

SCALE: NTS



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SCALE: NOT SHOWN	DESIGNED BY: AT	DRAWN BY: AT		<b>CINGULAR WIRELESS</b>  ONE-LINE DIAGRAM
			JOB NUMBER MES048	DRAWING NUMBER E-1
				REV 2

## PROJECT INFORMATION

SCOPE OF WORK: UNMANNED TELECOMMUNICATIONS FACILITY MODIFICATIONS  
 SITE ADDRESS: 284 DANFORTH STREET  
 PORTLAND, ME  
 JURISDICTION: CITY OF PORTLAND  
 CURRENT USE: TELECOMMUNICATIONS FACILITY  
 PROPOSED USE: TELECOMMUNICATIONS FACILITY  
 NOC#: 866-915-5600  
 ZONING: R6  
 TAX MAP # , LOT # : MAP 51, BLOCK F, LOT 1



**SITE NUMBER:**  
**SITE NAME: HARBOR TERRACE**

## DRAWING INDEX

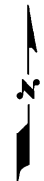
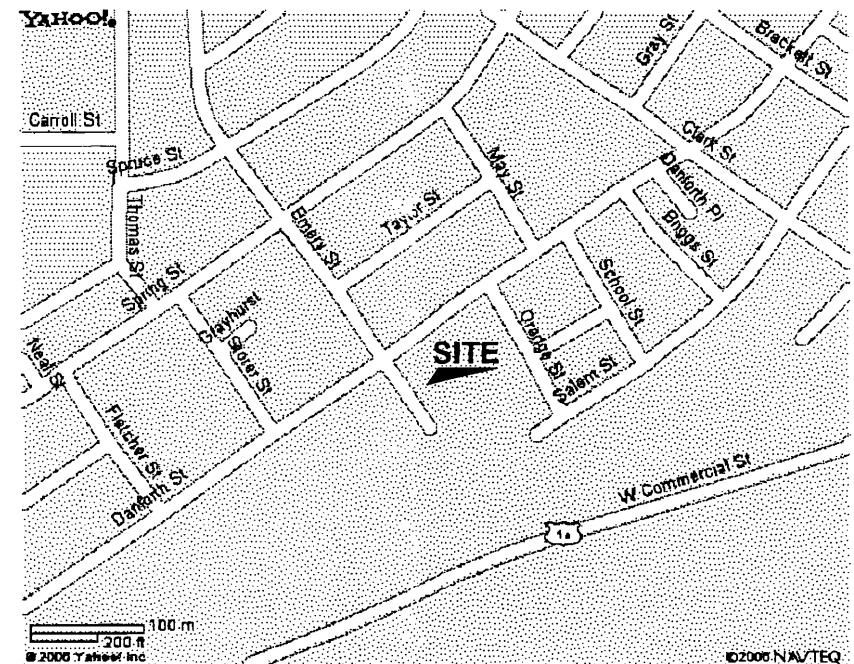
## REV

T-1 TITLE SHEET  
 A-1 EQUIPMENT PLAN  
 A-2 DETAILS  
 E-1 ONE-LINE DIAGRAM

0  
 0  
 0  
 0

## VICINITY MAP

FROM BOLTON: TAKE I-495 N VIA THE RAMP ON THE LEFT TOWARD LOWELL. I-495 N BECOMES I-95 N. MERGE ONTO I-295 N VIA EXIT 44 TOWARD SOUTH PORTLAND/DOWNTOWN PORTLAND. TAKE THE US-1 N EXIT- EXIT 4- TOWARD PORTLAND/WATERFRONT. STAY STRAIGHT TO GO ONTO US-1 N / BLUE STAR MEMORIAL HWY. TURN SLIGHT RIGHT ONTO DANFORTH ST.



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NO.	DATE	ISSUED FOR
0	06/28/06	ISSUED FOR CC
SCALE: NOT SHOWN		