

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

# CITY OF PORTLAND

## BUILDING INSPECTION

### PERMIT

Permit Number: 061733

Please Read Application And Notes, If Any, Attached

This is to certify that DELTA AIR LINES INC DELTA 852 CORP TAX/Verizon Wireless

has permission to Roof top installation of Verizon equipment shelter with 360 sq ft footprint. Installation will include 12 panels and 12

AT 1001 WESTBROOK ST PORTLAND, OR 97208 208 A001002

provided that the person or persons who accept this permit shall comply with all of the provisions of the Statutes of the State and of the Ordinances of the City of Portland relating to the construction, maintenance and use of buildings and structures, and of the rules and regulations of this department.

**PERMIT ISSUED**  
DEC 27 2006  
CITY OF PORTLAND

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 procedure is complete before this building or part thereof is occupied or services closed-in. 4 HOUR NOTICES REQUIRED.

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

#### OTHER REQUIRED APPROVALS

Fire Dept. \_\_\_\_\_  
Health Dept. \_\_\_\_\_  
Appeal Board \_\_\_\_\_  
Other \_\_\_\_\_  
Department Name

12/15/06 *[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: 06-1733	Issue Date:	CBL: 208 A001002
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Location of Construction: 1001 WESTBROOK ST	Owner Name: DELTA AIR LINES INC DEPT 85	Owner Address: PO BOX 45852	Phone:
Business Name:	Contractor Name: Verizon Wireless	Contractor Address: 400 Friberg Parkway Westborough	Phone:
Lessee/Buyer's Name	Phone:	Permit Type: Radio/Telecommunications Tower	Zone: AB

Past Use: Commercial - Portland JetPort	Proposed Use: Commercial - Portland JetPort - Roof top installation of Verizon equipment shelter with 360 sq ft footprint. Installation will include 12 panel antennas & infrastructure	Permit Fee: \$425.00	Cost of Work: \$33,000.00	CEO District: 3
Proposed Project Description: Roof top installation of Verizon equipment shelter with 360 sq ft footprint. Installation will include 12 panel antennas & infrastructure		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied TO OHPA 101	INSPECTION: Use Group: Type: N/A 12/15/06 Signature: Greg Cuss	

Signature: *[Signature]*

Signature: *[Signature]*

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)

Action:  Approved  Approved w/Conditions  Denied

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

Permit Taken By: Idobson	Date Applied For: 11/30/2006	<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><b>Special Zone or Reviews</b></p> <p><input type="checkbox"/> Shoreland</p> <p><input type="checkbox"/> Wetland</p> <p><input type="checkbox"/> Flood Zone</p> <p><input type="checkbox"/> Subdivision</p> <p><input type="checkbox"/> Site Plan</p> <p>Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/></p> <p>OR w/condition</p> <p>Date: 12/15/06 ABH</p>	<p><b>Zoning Appeal</b></p> <p><input type="checkbox"/> Variance</p> <p><input type="checkbox"/> Miscellaneous</p> <p><input type="checkbox"/> Conditional Use</p> <p><input type="checkbox"/> Interpretation</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Denied</p> <p>Date: _____</p>	<p><b>Historic Preservation</b></p> <p><input checked="" type="checkbox"/> Not in District or Landmark</p> <p><input type="checkbox"/> Does Not Require Review</p> <p><input type="checkbox"/> Requires Review</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Approved w/Conditions</p> <p><input type="checkbox"/> Denied</p> <p>ABH</p> <p>Date: _____</p>
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## 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



# 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>Portland International Jetport, 1001 Westbrook St.</u>		
Total Square Footage of Proposed Structure <u>360 S.F.</u>	Square Footage of Lot <u>N/A</u>	
Tax Assessor's Chart, Block & Lot Chart# <u>204</u> Block# <u>A</u> Lot# <u>1</u>	Owner: <u>Portland International Jetport</u>	Telephone: <u>207/756-8029</u> <u>Paul Bradbury</u>
Lessee/Buyer's Name (If Applicable) <u>Verizon Wireless</u> <u>400 Friberg Parkway</u> <u>Westborough, MA 01581</u>	Applicant name, address & telephone: <u>Verizon Wireless</u> <u>400 Friberg Parkway</u> <u>Westborough, MA 01581</u>	Cost Of Work: \$ <u>33,000.00</u> Fee: \$ <u>350.00</u> C of O Fee: \$ <u>75.00</u>
Current Specific use: <u>Airport</u>		
If vacant, what was the previous use? <u>N/A</u>		
Proposed Specific use: <u>Wireless Communications Facility</u>		
Project description: <u>Roof top installation of Verizon Wireless equipment shelter with 360 square foot footprint. Installation will also include 12 panel antennas and required infrastructure.</u>		
Contractor's name, address & telephone:		
Who should we contact when the permit is ready: <u>Dabney Moar</u>		
Mailing address: <u>Sebago Technics</u> Phone: <u>207/856-0277</u> <u>One Chabot St.</u> <u>Westbrook, ME 04098</u>		

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: <u>[Signature]</u>	Date: <u>11/22/06</u>
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Chuck Welberry - authorized agent

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

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

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

<b>Permit No:</b> 06-1733	<b>Date Applied For:</b> 11/30/2006	<b>CBL:</b> 208 A001002
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<b>Location of Construction:</b> 1001 WESTBROOK ST	<b>Owner Name:</b> DELTA AIR LINES INC DEPT 85	<b>Owner Address:</b> PO BOX 45852	<b>Phone:</b>
<b>Business Name:</b>	<b>Contractor Name:</b> Verizon Wireless	<b>Contractor Address:</b> 400 Friberg Parkway Westborough	<b>Phone:</b>
<b>Lessee/Buyer's Name</b>	<b>Phone:</b>	<b>Permit Type:</b> Radio/Telecommunications Tower	

<b>Proposed Use:</b> Commercial - Portland JetPort - Roof top installation of Verizon equipment shelter with 360 sq ft footprint. Installation will include 12 panel antennas & infrastructure	<b>Proposed Project Description:</b> Roof top installation of Verizon equipment shelter with 360 sq ft footprint. Installation will include 12 panel antennas & infrastructure
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**Dept:** Zoning      **Status:** Approved with Conditions      **Reviewer:** Ann Machado      **Approval Date:** 12/05/2006**Note:** **Ok to Issue:** 

1) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.

**Dept:** Building      **Status:** Approved      **Reviewer:** Mike Nugent      **Approval Date:** 12/15/2006**Note:** **Ok to Issue:** **Dept:** Fire      **Status:** Approved with Conditions      **Reviewer:** Cptn Greg Cass      **Approval Date:** 12/05/2006**Note:** **Ok to Issue:** 

1) Means of egress shall comply with NFPA 101 CHAPTER 40

**Comments:**

12/11/2006-Idobson: Left a voicemail with Aaron Jones, the project engineer:

The risers on the stairs are open and I don't see an allowance for this in the code (see section 1009.3.2)

Had a couple of structural questions regarding the additional loads on the existing building as well.

# Structural Integrity

Consulting Engineers, Inc.

## FAX COVER

TO: <u>Mike Nugent / Jim S. / Bob H.</u>	DATE: <u>12/15/2006</u>
FIRM: <u>874-8716 / 856-2266 / 207-646-1248</u>	JOB NO: <u>06-0028</u>
FAX NO: <u>City of P. / Sebago Tech / Verizon</u>	PROJECT: <u>Verizon @ Jetport</u>
FROM: <u>Aaron C. Jones, P.E.</u>	TOTAL PAGES: <u>2</u> including this cover sheet
	Hard Copy To Follow: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES

If you do not receive all pages or they are illegible, please contact the sender by phone. Thank you.

REMARKS:

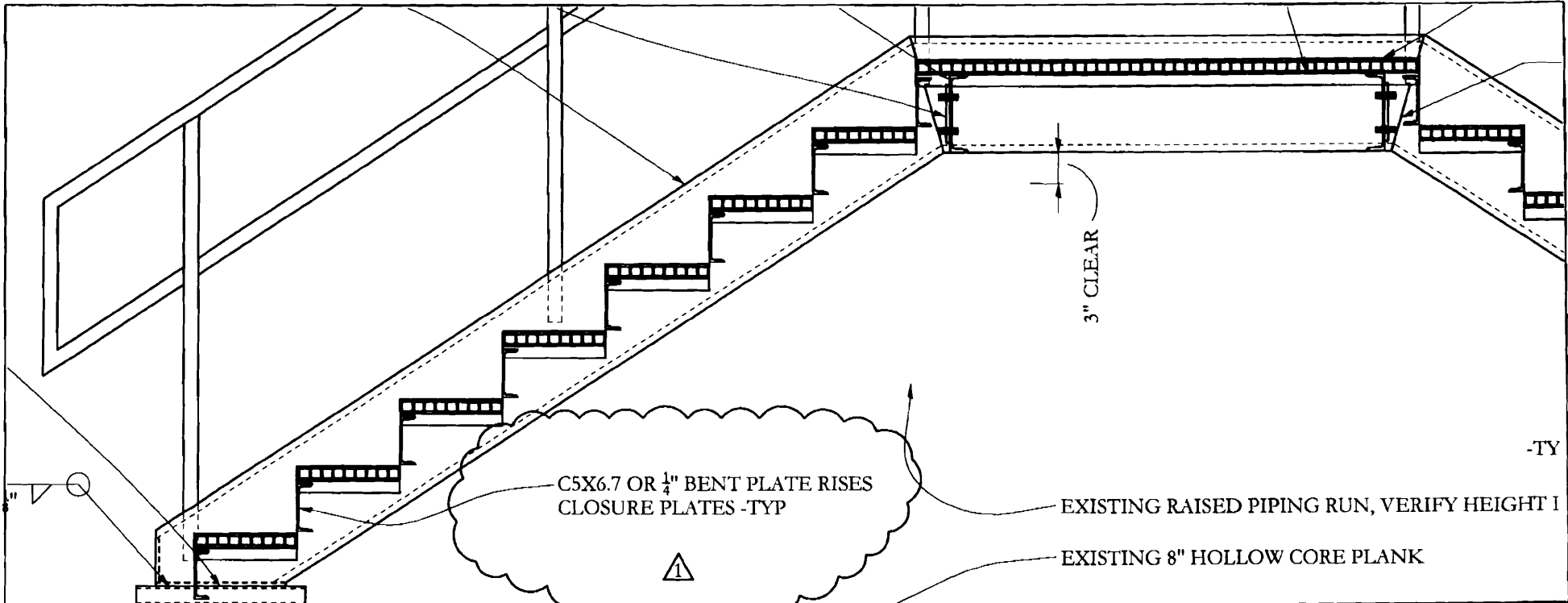
Hi Mike,  
 Please find the riser closure sketch attached.

Please let me know if you need anything else.

Thanks  
 Aaron

Signed: Aaron C. Jones

Copies to: File



SECTION C  
S1 3/4"=1'-0

Title: STAIR CHANGES 12-15-2006, REVISION #1

# NEW ROOFTOP SHELTER AT PORTLAND INTERNATIONAL JETPORT

1001 WESTBROOK ROAD  
PORTLAND, ME

Scale: 3/4" = 1'-0"

Date: 12/15/06

CHANGES TO S1

## SKS-1

**Structural Integrity**  
Consulting Engineers, Inc.

77 Oak Street  
Portland, ME 04101  
p. 207-774-8654  
f. 204-793-7835  
www.structuralintegrity.com

BUILD WITH CONFIDENCE  
© 2006 Structural Integrity Consulting Engineers, Inc.

SI JOB# 06-0028

**SEBAGO TECHNICS, INC.**  
 One Chabot Street  
 P.O. Box 1339  
 WESTBROOK, ME 04098-1339

**HAND CARRIED**  
**LETTER OF TRANSMITTAL**  
**18058**

Phone (207) 856-0277 FAX (207) 856-2206

TO CITY OF PORTLAND  
389 CONGRESS STREET  
PORTLAND, ME

DATE	11-30-06	JOB NO.	05108
ATTENTION	CODE ENFORCEMENT, ROOM 315		
RE:	VERIZON WIRELESS PWM		
	JETPORT ROOF INSTALLATION		

WE ARE SENDING YOU  Attached  Under separate cover via \_\_\_\_\_ the following items:

- Shop drawings  Prints  Plans  Samples  Specifications  
 Copy of letter  Change order  Below

COPIES	DATE	NO.	DESCRIPTION
1	11/22/06	1	CHECK # 9664 APPLICATION FEE \$425.00
1	11/22/06	3	GENERAL APPLICATION & PERMIT APPLICATION CHECKLIST
1	11/16/06	5	CITY OF PORTLAND BUILDING CODE CERTIFICATION
1	10/18/06	1	APPLICATION FEE EXEMPTION APPROVED 10/25/06
1	4/28/06	23	CELLXION BUILDING/EQUIPMENT SHELTER PLANS
1	11/19/06	5	MEMORANDUM OF LEASE WITH CITY OF PORTLAND
1	7/25/06	2	SITE PLAN & BUILDING ELEV. REQ. THROUGH 11-27-06
1	11/16/06	2	STRUCTURAL PLANS FOR ROOF TOP INSTALLATION

THESE ARE TRANSMITTED as checked below:

- For approval  Approved as submitted  Resubmit \_\_\_\_\_ copies for approval  
 For your use  Approved as noted  Submit \_\_\_\_\_ copies for distribution  
 As requested  Returned for corrections  Return \_\_\_\_\_ corrected prints  
 For review and comment  \_\_\_\_\_  
 FOR BIDS DUE \_\_\_\_\_  PRINTS RETURNED AFTER LOAN TO US

REMARKS ATTACHED PLEASE FIND OUR SUBMISSION PACKAGE FOR  
THE WIRELESS FACILITY PROPOSED BY CELLXION PARTNERSHIP  
dba VERIZON WIRELESS. THIS WILL BE AN INSTALLATION  
OF A PRE-ENGINEERED EQUIPMENT SHELTER AND ASSOCIATED  
EQUIPMENT IN THE VICINITY OF THE MECHANICAL ROOM  
ON THE ROOF OF THE PORTLAND JETPORT (PWM) TERMINAL.  
PLEASE LET US KNOW IF WE CAN BE OF  
FURTHER ASSISTANCE.

COPY TO CHARLES WEBBERLY  
STRUCTURE CONSULTING GROUP.

SIGNED: Charles Brown PLS

If enclosures are not as noted, kindly notify us at once. XP Field Services



# Commercial Interior & Change of Use Permit Application Checklist

All of the following information is required and must be submitted. Checking off each item as you prepare your application package will ensure your package is complete and will help to expedite the permitting process.

## One (1) complete set of construction drawings must include:

Note: Construction documents for costs in excess of \$50,000.00 must be prepared by a Design Professional and bear their seal.

- Cross sections w/framing details
- Detail of any new walls or permanent partitions
- Floor plans and elevations
- Window and door schedules
- Complete electrical and plumbing layout.
- Mechanical drawings for any specialized equipment such as furnaces, chimneys, gas equipment, HVAC equipment or other types of work that may require special review
- Insulation R-factors of walls, ceilings, floors & U-factors of windows as per the IECC 2003
- N/A  Proof of ownership is required if it is inconsistent with the assessors records.
- Reduced plans or electronic files in PDF format are required if originals are larger than 11" x 17".

Separate permits are required for internal and external plumbing, HVAC & electrical installations.

For additions less than 500 sq. ft. or that does not affect parking or traffic, a site plan exemption should be filed including:

- N/A  The shape and dimension of the lot, footprint of the proposed structure and the distance from the actual property lines.
- N/A  Location and dimensions of parking areas and driveways, street spaces and building frontage

A Minor Site Plan Review is required for any change of use between 5,000 and 10,000 sq. ft. (cumulatively within a 3-year period)



**Fire Department requirements.**

The following shall be submitted on a separate sheet:

- Name, address and phone number of the project architect.
- Proposed use of structure (NFPA and IBC classification)
- Square footage of proposed structure (NFPA and IBC classification)
- Existing and proposed fire protection of structure.
- Separate plans shall be submitted for
  - a) Suppression system
  - b) Detection System (separate permit is required)
- N/A  A separate Life Safety Plan must include:
  - a) Fire resistance ratings of all means of egress
  - b) Travel distance from most remote point to exit discharge
  - c) Location of any required fire extinguishers
  - d) Location of emergency lighting
  - e) Location of exit signs
  - f) NFPA 101 code summary

For questions on Fire Department requirements call the Fire Prevention Officer at (207) 874-8405.

**Please submit all of the information outlined in this application checklist. If the application is incomplete, the application may be refused.**

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.

**Permit Fee: \$30.00 for the first \$1000.00 construction cost, \$10.00 per additional \$1000.00 cost**

**This is not a Permit; you may not commence any work until the Permit is issued.**



CITY OF PORTLAND  
BUILDING CODE CERTIFICATE  
389 Congress St., Room 315  
Portland, Maine 04101

TO: Inspector of Buildings City of Portland, Maine  
Department of Planning & Urban Development  
Division of Housing & Community Service

FROM: Aaron C. Jones, P.E.

RE: Certificate of Design

DATE: 11/16/2006

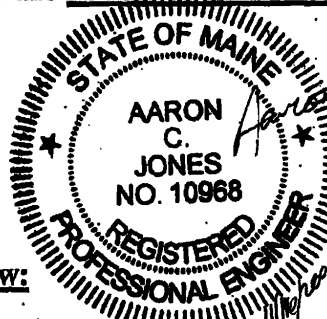
These plans and / or specifications covering construction work on:

New Shelter at Portland Jetport. Portland, ME

(Note: Structure Only)

Have been designed and drawn up by the undersigned, a Maine registered ~~Engineer~~  
Engineer according to the 2003 International Building Code and local amendments.

(SEAL)



Signature: Aaron C. Jones

Title: President

Firm: Structural Integrity, Inc.

As per Maine State Law:

\$50,000.00 or more in new construction, repair,  
expansion, addition, or modification for  
Building or Structures, shall be prepared by a  
registered design Professional.

Address: 77 Oak Street  
Portland, ME 04101

# Statement of Special Inspections

Project: *New Rooftop shelter AT Portland, Jetport.*

Location: *1001 Westbrook Road Portland, ME*

Owner: *Portland Jetport.*

Design Professional in Responsible Charge: *Aaron C. Jones, P.E.*

This *Statement of Special Inspections* is submitted as a condition for permit issuance in accordance with the Special Inspection and Structural Testing requirements of the Building Code. It includes a schedule of Special Inspection services applicable to this project as well as the name of the Special Inspection Coordinator and the identity of other approved agencies to be retained for conducting these inspections and tests. This *Statement of Special Inspections* encompass the following disciplines:

- Structural       Mechanical/Electrical/Plumbing  
 Architectural       Other: \_\_\_\_\_

The Special Inspection Coordinator shall keep records of all inspections and shall furnish inspection reports to the Building Official and the Registered Design Professional in Responsible Charge. Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Registered Design Professional in Responsible Charge. The Special Inspection program does not relieve the Contractor of his or her responsibilities.

Interim reports shall be submitted to the Building Official and the Registered Design Professional in Responsible Charge.

A *Final Report of Special Inspections* documenting completion of all required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy.

Job site safety and means and methods of construction are solely the responsibility of the Contractor.

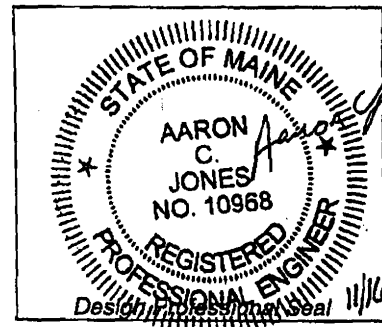
Interim Report Frequency: *At Project Completion*

or  per attached schedule.

Prepared by:

*Aaron C. Jones, P.E.*  
(type or print name)

*Aaron C. Jones*      *11/16/2006*  
Signature      Date



Owner's Authorization:

*Chuck Webberly*      *11/22/06*  
Signature      Date

Building Official's Acceptance:

\_\_\_\_\_  
Signature      Date

*Chuck Webberly, Authorized Agent  
for Verizon Wireless*

# Schedule of Inspection and Testing Agencies

This Statement of Special Inspections / Quality Assurance Plan includes the following building systems:

- |  |  |
|--|--|
| <input type="checkbox"/> Soils and Foundations             | <input type="checkbox"/> Spray Fire Resistant Material         |
| <input checked="" type="checkbox"/> Cast-in-Place Concrete | <input type="checkbox"/> Wood Construction                     |
| <input type="checkbox"/> Precast Concrete                  | <input type="checkbox"/> Exterior Insulation and Finish System |
| <input type="checkbox"/> Masonry                           | <input type="checkbox"/> Mechanical & Electrical Systems       |
| <input type="checkbox"/> Structural Steel                  | <input checked="" type="checkbox"/> Architectural Systems      |
| <input type="checkbox"/> Cold-Formed Steel Framing         | <input checked="" type="checkbox"/> Special Cases              |

Special Inspection Agencies	Firm	Address, Telephone, e-mail
1. Special Inspection Coordinator  Aaron C Jones, P.E.	STRUCTURAL INTEGRITY	207-774-4614 aaron@structuralinteg.com 770AK Street Portland, ME
2. Inspector  "SAME"		
3. Inspector		
4. Testing Agency		
5. Testing Agency		
6. Other		

Note: The inspectors and testing agencies shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official, prior to commencing work.

## Quality Assurance Plan

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### Quality Assurance for Seismic Resistance

Seismic Design Category

Quality Assurance Plan Required (Y/N)

Description of seismic force resisting system and designated seismic systems:

N/A

### Quality Assurance for Wind Requirements

Basic Wind Speed (3 second gust)

Wind Exposure Category

Quality Assurance Plan Required (Y/N)

Description of wind force resisting system and designated wind resisting components:

N/A

### Statement of Responsibility

Each contractor responsible for the construction or fabrication of a system or component designated above must submit a Statement of Responsibility.

N/A

Item	Agency # (Qualif.)	Scope
1. Mix Design	(1) ACI-CCI ICC-RCSI PE	Review concrete batch tickets and verify compliance with approved mix design. Verify that water added at the site does not exceed that allowed by the mix design.
2. Material Certification	(1) PE	
3. Reinforcement Installation	(1) ACI-CCI ICC-RCSI PE	Inspect size, spacing, cover, positioning and grade of reinforcing steel. Verify that reinforcing bars are free of form oil or other deleterious materials. Inspect bar laps and mechanical splices. Verify that bars are adequately tied and supported on chairs or bolsters
4. Post-Tensioning Operations  N/A	ICC-PCSI	Inspect placement, stressing, grouting and protection of post-tensioning tendons. Verify that tendons are correctly positioned, supported, tied and wrapped. Record tendon elongations.
5. Welding of Reinforcing  N/A	AWS-CWI	Visually inspect all reinforcing steel welds. Verify weldability of reinforcing steel. Inspect preheating of steel when required.
6. Anchor Rods	(1)	Inspect size, positioning and embedment of anchor rods. Inspect concrete placement and consolidation around anchors.
7. Concrete Placement	(1) ACI-CCI ICC-RCSI PE	Inspect placement of concrete. Verify that concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated.
8. Sampling and Testing of Concrete  N/A	ACI-CFTT ACI-STT	Test concrete compressive strength (ASTM C31 & C39), slump (ASTM C143), air-content (ASTM C231 or C173) and temperature (ASTM C1064).
9. Curing and Protection	(1) ACI-CCI ICC-RCSI PE	Inspect curing, cold weather protection and hot weather protection procedures.
10. Other:  N/A		

**CODE SUMMARY**

1994	UNIFORM BUILDING CODE
1996	BOCA NATIONAL BUILDING CODE
1997	INTERNATIONAL BUILDING CODE
1997	STANDARD BUILDING CODE
1997	UNIFORM BUILDING CODE
2000	INTERNATIONAL BUILDING CODE
2000	STANDARD BUILDING CODE
2003	INTERNATIONAL BUILDING CODE
2006	INTERNATIONAL BUILDING CODE
1991	UNIFORM MECHANICAL CODE
1994	UNIFORM MECHANICAL CODE
1996	BOCA MECHANICAL CODE
1997	INTERNATIONAL MECHANICAL CODE
1997	STANDARD MECHANICAL CODE
1997	UNIFORM MECHANICAL CODE
2000	INTERNATIONAL MECHANICAL CODE
2000	STANDARD MECHANICAL CODE
2003	INTERNATIONAL MECHANICAL CODE
2006	INTERNATIONAL MECHANICAL CODE
2000	MINNESOTA STATE ENERGY CODE
2002	BUILDING CODE OF NEW YORK STATE
2002	ELECTRICAL CODE OF NEW YORK STATE
2002	IBC WITH NEW JERSEY AMENDMENTS
2002	KENTUCKY BUILDING CODE
2002	MASSACHUSETTS ELECTRICAL CODE
2002	MECHANICAL CODE OF NEW YORK STATE
2002	NEC WITH NEW JERSEY AMENDMENTS
2006	NORTH CAROLINA BUILDING CODE
2005	NORTH CAROLINA ELECTRICAL CODE
2006	NORTH CAROLINA MECHANICAL CODE
2003	MICHIGAN BUILDING CODE
2003	MICHIGAN MECHANICAL CODE
2003	MINNESOTA STATE BUILDING CODE
2003	MINNESOTA STATE MECHANICAL CODE
2003	NEW MEXICO COMMERCIAL BUILDING CODE
2003	NEW MEXICO ELECTRICAL CODE
2003	NEW MEXICO MECHANICAL CODE
2004	CHICAGO BUILDING CODE
2004	FLORIDA BUILDING CODE WITH 2005 SUPPLEMENT
2006	MASSACHUSETTS ELECTRICAL CODE
0th	MASSACHUSETTS STANDARD BUILDING CODE
2005	OHIO BUILDING CODE
2005	OHIO MECHANICAL CODE
2005	CALIFORNIA TITLE 25
1996	NATIONAL ELECTRICAL CODE
1999	NATIONAL ELECTRICAL CODE
2002	NATIONAL ELECTRICAL CODE
2005	NATIONAL ELECTRICAL CODE
1999	ASHARE 90.1
2001	ASHARE 90.1
2003	INTERNATIONAL ENERGY CONSERVATION CODE
2000	NFPA 101 LIFE SAFETY CODE

**INDEX OF SHEETS**

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*1-2	EXTERIOR ELEVATIONS "C" & "D"
2-0	FLOOR PLAN
3-0	REFLECTED CEILING PLAN - ELECTRICAL
3-1	REFLECTED CEILING PLAN - MECHANICAL
4-0	INTERIOR ELEVATION "A"
4-1	INTERIOR ELEVATION "C"
4-2	INTERIOR ELEVATIONS "B" & "D"
4-3	INTERIOR PARTITION "E" & "F"
*5-0	ELECTRICAL SCHEMATIC
5-1	HVAC WIRING SCHEMATIC
6-0	GROUND BAR DETAILS

\* = DENOTES SHEETS WHICH MAY CONTAIN FIELDWORK

**REFERENCE DRAWINGS**

108-001	ABBREVIATIONS AND SYMBOLS
108-018	GENERAL CASTING SPECIFICATIONS
108-020	HIGH SEISMIC FLAT TIE DOWN
108-027	STEEL SHELTER W/ROOF FLOOR SECTION (OPTION A1)
108-042	STEEL SHELTER CONCRETE FLOOR SECTION (OPTION A2)
108-043	2 HR STEEL SHELTER WALL SECTION DETAILS (OPTION B2)
108-044	1 HR STEEL SHELTER WALL SECTION DETAILS (OPTION B1)
108-045	STEEL SHELTER W/R ROOF SECTION DETAILS

**STRUCTURAL DRAWINGS (MANUFACTURE ONLY)**

SD-0	STRUCTURAL SPECIFICATIONS
S1-0	STRUCTURAL LAYOUT - STRUCTURAL STUD LAYOUT PANEL "A"
S1-1	STRUCTURAL LAYOUT - STRUCTURAL STUD LAYOUT PANEL "C"
S1-2	STRUCTURAL LAYOUT - STRUCTURAL STUD LAYOUT PANEL "B" & "D"
S1-3	STRUCTURAL LAYOUT - STRUCTURAL STUD LAYOUT PARTITION "E"
S1-4	STRUCTURAL LAYOUT - STRUCTURAL SKIN LAYOUT PANEL "A"
S1-5	STRUCTURAL LAYOUT - STRUCTURAL SKIN LAYOUT PANEL "C"
S1-6	STRUCTURAL LAYOUT - STRUCTURAL SKIN LAYOUT PANEL "B" & "D"
228-1108X3000-00	- 11'-8" X 30'-0" W/ROOF FLOOR ASSEMBLY KIT
221-1108X3000-00	- 11'-8" X 30'-0" X 5" CONCRETE FLOOR ASSEMBLY KIT
229-1111X3006-00	- 11'-11" X 30'-6" LIGHT WEIGHT ROOF ASSEMBLY KIT

**DESIGN PARAMETERS**

USE GROUP:	B (BOCA)
	S-2 (FBC, IBC, SBC, UBC)
CONSTRUCTION TYPE:	SB (BOCA)
	W-LWP (SBC)
	V-B (FBC, IBC)
	V-M (UBC)
ROOF LIVE LOAD:	100 PSF
FLOOR LIVE LOAD:	192 PSF [OPTION A1]
	198 PSF [OPTION A2]
GROUND SNOW LOAD:	142 PSF
WIND SPEED:	120 MPH/EXPOSURE C (BC)
SEISMIC ZONE FOR SBC & UBC:	4
SEISMIC DESIGN CATEGORY FOR IBC:	D (IBC)
	USE GROUP-III (OBC)
	SITE CLASS-D (OBC)
CONCRETE (f <sub>c</sub> ):	8000 PSI AT 28 DAYS (OPTION A2 ONLY)
CONCRETE UNIT WEIGHT:	110 PCF (OPTION A2 ONLY)

**FIRE RATING OPTIONS:**

- 1 HR WALL UL ASSY # U423
  - 2 HR WALL UL ASSY # U423
- (LIMITATIONS MAY APPLY DUE TO OPENINGS AND PROXIMITY ON SITE)

**PHYSICAL PROPERTIES**

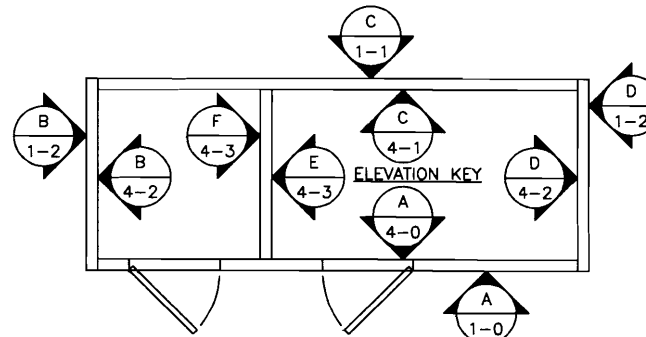
SHELTER DIMENSIONS: 11'-8" W X 30'-0"  
 SHIPPING DIMENSIONS: 11'-11" W X 32'-3" X  
 11'-0" H (OPTION A1) 10'-5" (OPTION A2)

**SHELTER WEIGHT FOR SHELTER ONLY:**

1 HR W/ 5" CONCRETE FLOOR	= 47,000 LB
2 HR W/ 5" CONCRETE FLOOR	= 52,000 LB
1 HR W/ W/ROOF FLOOR	= 27,000 LB
2 HR W/ W/ROOF FLOOR	= 31,000 LB

**NOTES**

1. LISTED CODES INCLUDE LATEST STATE ADOPTED AMENDMENTS.
  2. THIS SHELTER NOT INTENDED FOR HUMAN HABITATION.
  3. APPROVED MODEL MAY BE MIRROR IMAGE.
  4. OCCUPANT LOAD = 0, OHIO = 2
  5. SPECIAL CONDITIONS: N/A
  6. PERMISSIBLE TYPES OF GASES: N/A
  7. SHELTER HAS NO COUNTY PLACEMENT RESTRICTION IN THE STATE OF MARYLAND.
  8. STATE INSIGNIA LABEL/DECAL IS LOCATED NEAR MAIN ELECTRICAL SERVICE PANEL.
  9. DOOR MUST BE MINIMUM 90 MINUTE FIRE RATED IF USED IN 2 HOUR FIRE RATED SHELTER.
  10. ENERGY CODE EVALUATION BASED ON COMCHECK-EZ AND ENERGY GAUGE FLACOM SOFTWARE.
  11. NOT SUBJECT TO FLORIDA FIRE SAFETY CODE.
  12. ACCESS TO SHELTER SHALL COMPLY WITH MARYLAND ACCESSIBILITY CODE COMAR .05.02.02.07/ADAMG SECTION 4.1.2.
  13. ALL WELDS SHALL BE VERIFIED BY SPECIAL INSPECTION SHOWING CONFORMANCE TO THE DESIGN DRAWINGS AND SPECIFICATIONS.
  14. BUILDING CATEGORY II (PER ASCE TABLE 1-1).
  15. APPLICABLE INTERNAL PRESSURE COEFFICIENT (NOT APPLICABLE) - THESE SHELTERS CONFORM TO THE REQUIREMENTS OF SECTION 1809.1.1 "SIMPLIFIED PROVISIONS FOR LOW RISE BUILDINGS".
  16. WIND IMPORTANCE FACTOR - I<sub>w</sub> = 1.00
  17. THIS SHELTER IS AN "ENCLOSED STRUCTURE".
  18. EXTERIOR COMPONENTS AND CLADDING POSITIVE AND NEGATIVE PRESSURES IN TERMS OF PSF - SEE TABLE BELOW:
- |              |  |
|--------------|--|
| ROOF ZONE 1: | +14.0/-33.8 (100 SF EFFECTIVE WIND AREA) |
| ROOF ZONE 2: | +14.0/-54.8 (20 SF EFFECTIVE WIND AREA)  |
| ROOF ZONE 3: | +15.4/-81.0 (10 SF EFFECTIVE WIND AREA)  |
| WALL ZONE 4: | +30.0/-32.8 (200 SF EFFECTIVE WIND AREA) |
| WALL ZONE 5: | +34.3/-44.8 (30 SF EFFECTIVE WIND AREA)  |
19. THESE PLANS ARE DESIGNED TO BE USED FOR THE CONSTRUCTION OF COMMERCIAL MODULAR UNITS, IN ACCORDANCE WITH CA HEALTH AND SAFETY CODE SECTION 18028, 1991 UBC, 1993 NEC, AND A17.1-1-1008
  20. COMPLIANCE WITH FLORIDA FIRE PREVENTION CODE IS THE RESPONSIBILITY OF THE LOCAL CODE OFFICIAL HAVING JURISDICTION.
  21. THE 2005 NEC IS MORE STRINGENT THAN THE 2002 NEC.
  22. HVAC UNITS ARE SIZED PER CUSTOMER REQUIREMENTS.
  23. EXTERNAL GROUNDING BY OTHERS.



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CUSTOMER:  
**VERIZON WIRELESS**

PROJECT:  
**11'-8" X 30'-0"  
 1HR/2HR STEEL SHELTER  
 COVER SHEET**

FILENAME: VNE/DVNE36	TOLERANCE:
SCALE: N.T.S.	DATE: 4/28/06
DRWN. BY: W. GILLENTHINE	DATE: 4/28/06
CHK. BY: C. CASINGER	DATE: 4/28/06
ENG. BY: K. BARNETT	DATE: 4/28/06
APP. BY: S. LEGGETT	DATE: 4/28/06

SHEET NO.  
0-0

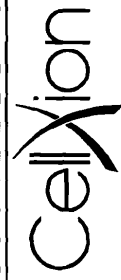
DRAWING NO.:  
DVNE36

**B**

Parts List

ITEM	QTY	U/M	P/N	DESCRIPTION	ITEM	QTY	U/M	P/N	DESCRIPTION
1	8.0000	EA	170000	PIPE, PVC, SCH 40, 1", CAST 64S	65	1.0000	EA	420023	LABEL,BLK,ELECT,"TRANSFER SWITCH"
2	1.0000	EA	410063	NIPPLE, EMT, 1/2" CHASE	66	1.0000	EA	420024	LABEL,BLK,ELECT,"EXTERIOR LIGHT"
3	1.0000	EA	410113	NIPPLE, EMT, 1/2", OFFSET	67	1.0000	EA	420037	LABEL,BLK,ELECT,"TVSS"
4	3.0000	EA	410181	NIPPLE, RIGID, 2" X 8 1/2"	68	1.0000	EA	420041	LABEL,"ARC FLASH AND SHOCK WARNING"
5	1.0000	EA	410182	NIPPLE, RIGID, 3/4" X 8 1/2"	69	2.0000	EA	430006	COVER, SWITCH PLATE, 4X4, 1 SWITCH
6	4.0000	EA	410201	NIPPLE, RIGID, 3/4" X 8 1/2"	70	5.0000	EA	430010	COVER, RECEPTACLE PLATE, 4X4, QUAD
7	2.0000	EA	410207	NIPPLE, RIGID, 1/2" X 8"	71	18.0000	EA	430012	COVER, BLANK PLATE, 4X4
8	1.0000	EA	410217	NIPPLE, RIGID, 1" X 8"	72	1.0000	EA	430014	COVER, BLANK PLATE, 4 11/16" X 4 11/16"
9	2.0000	EA	410315	NIPPLE, RIGID, 1/2" X 3"	73	1.0000	EA	430033	RECEPTACLE, GFCI, 120V, 20A, NORY
10	1.0000	EA	430003	BOX, 4" OCTAGON, 1 1/2" DEEP, 1/2" & 3/4" KO	74	10.0000	EA	430034	RECEPTACLE, DUPLEX, 125V, 20A, NORY
11	28.0000	EA	430005	BOX, JUNCT, 4"X4", 2 1/8" DEEP, 1/2"-3/4" KO	75	2.0000	EA	430072	COVER, SWITCH PLATE, 4X4, 2 SWITCH
12	1.0000	EA	430008	BOX, 6 X 6 X 4, SCREW COVER, NEMA 1, 0-KO	76	5.0000	EA	430084	SWITCH, SPST, 20A, 120V, NORY
13	1.0000	EA	430029	BOX, JUNCTION, 4 11/16" X 2 1/8"	77	1.0000	EA	430115	RECEPTACLE, SINGLE, 125V, 20A, TURNLOCK
14	1.0000	EA	430030	BOX, JUNCTION, 2" X 4", WEATHER PROOF, (3) 1/2" HOLES	78	1.0000	EA	430189	COVER, RECPY PLATE, 4X4, 1R, 250V, 20A
15	1.0000	EA	430049	WREWAY, GALV, 4"X4", CLOSURE PLATE, NO	79	2.0000	EA	430334	SWITCH, FLOAT, GRANGER #HYM35
16	7.0000	EA	430050	WREWAY, GALVANIZED, 4" X 4", U-CONNECTOR	80	1.0000	EA	430384	COVER, GFCI, 2 RECEPTACLE, HORIZONTAL
17	1.0000	EA	430056	BOX, JUNCT, 4 OCT DEEP BOX, 2-1/8"	81	1.0000	EA	460109	THERMOSTAT, BASEBOARD
18	2.0000	EA	430061	WREWAY, GALVANIZED, 4" X 4", 90 DEGREE ELBOW	82	1.0000	EA	460118	CONTROLLER, CONSTAT 3, MARVAR, S/04561
19	1.0000	EA	430074	BOX, ENCLOSURE, 12" X 12" X 6", HINGE COVER, NEMA 1	83	2.0000	EA	470010	LIGHT, EMERGENCY 2 HEADED, BAT., SURE-LITES CC-2 COOPER AP25Q
20	1.0000	EA	430075	ALARM BLOCK, SIEMOM, SR6M1-50	84	8.0000	EA	470047	LIGHT FIXTURE, LENS, 2-BULB T-8, WRAP AROUND
21	1.0000	EA	430148	BOX, 10 X 8 X 8, SCREW COVER, NEMA1	85	18.0000	EA	470058	LIGHT BULB, F32 T-8 MED BPHN
22	2.0000	EA	430287	WREWAY, GALVANIZED, 4" X 4" X 24", WITHOUT KNOCKOUTS	86	1.0000	EA	470123	TIMER, 12 HOUR, SPRING WOUND, INTERMATIC, FD412H (NO HOLD)
23	3.0000	EA	430288	WREWAY, GALVANIZED, 4" X 4" X 48", WITHOUT KNOCKOUTS	87	2.0000	EA	490000	ALARM, MAGNETIC DOOR CONTACT
24	1.0000	EA	430387	PANEL, COMBINED, GENERAC ILC, 200 AMP, 42P, 1 PHASE, ATS, 1 TVSS	88	1.0000	EA	490005	DETECTOR, SMOKE, 24VDC, PHOTOELECTRIC, SENTROL
25	2.0000	EA	460101	THERMOSTAT, HIGH/LOW TEMPERATURE	89	1.0000	EA	490064	DETECTOR, H2, 120V, RELAY 1XN/0, 2XN/C
26	1.0000	EA	470005	LIGHT FIXTURE, 70W, EXTERIOR, WALL (REMOVE FOR SHIPMENT)	90	1.0000	EA	170028	PIPE, PVC, SCH 40, 2", 90 DEGREE ELL
27	1.0000	EA	470020	BLOWER, SHADED POLE, DAYTON, 4C440	91	1.0000	EA	170038	PIPE, BLACK, 3 1/2", RAIN CAP, EXHAUST
28	8.0000	EA	470057	LIGHT FIXTURE, INTERIOR, 32W, 2 BULB, 4 FT, T-8 LAMP, ELECTRONIC BALLAST	92	1.0000	EA	170039	PIPE, BLACK, SCH 40, 3", TEE
29	1.0000	EA	470104	HEATER, BASEBOARD, 2000W, 240V, 94",HYDRONIC	93	1.0000	EA	170041	PIPE, BLACK, SCH 40, 3", CAP
30	1.0000	EA	510142	UNISTRUT, 9"	94	3.0000	FT.	170042	PIPE, BLACK, SCH 40, 3"
31	1.0000	FT.	170022	PIPE, BLK, SCH 40, 2"	95	1.0000	EA	390054	BRACKET, CO2 FIRE EXTINGUISHER
32	1.0000	EA	390020	RELAY, SMOKE DETECTOR, RMJ3	96	9.0000	EA	400021	C-TAP, BROWN, 54720
33	1.0000	EA	390032	DETECTOR, HEAT, 120V, 9V BU, KIDDE/FYRNETICS	97	21.0000	FT.	400030	WIRE, #8, THIN, STRANDED, GREEN
34	8.0000	EA	400325	BREAKER, 2P 30A, BOLT ON, SIEMENS, B230	98	61.0000	FT.	400045	WIRE, 2/0 THIN, STRANDED, GREEN
35	2.0000	EA	400327	BREAKER, 1P 15A, BOLT ON, SIEMENS, B115	99	212.0000	FT.	400050	WIRE, #2 THIN, STRANDED, GREEN
36	6.0000	EA	400328	BREAKER, 1P 20A, BOLT ON, SIEMENS, B120	100	36.0000	EA	400051	C-TAP, ORANGE, 54740 (COMPRESSION TYPE)
37	1.0000	EA	400347	BREAKER, 2P 15A, BOLT ON, SIEMENS, B215	101	80.0000	FT.	400099	WIRE, #2 SOLID, BARE, TINED
38	2.0000	EA	400385	BREAKER, 2P 60A, BOLT ON, SIEMENS, B280	102	1.0000	EA	400120	LUG, 2 HOLE, 2/0, BLACK, 1/4" HOLES, 3/4" C/C, LONG BARREL FLARED WITH WINDOW
	4.0000	EA	400530	FUSE, HOLDER, IN-LINE, HLR2					
41	3.0000	EA	400533	FUSE, 1 AMP, SMALL DIN BUSS, GLR1	103	3.0000	EA	400125	LUG, 2 HOLE, 2/0, BLACK, 3/8" HOLES, 1" C/C, LONG BARREL FLARED WITH WINDOW
42	1.0000	EA	400537	RELAY, BASE, 8-PIN OCTAL					
43	1.0000	EA	400585	RELAY, COIL, 8-PIN, 24VDC, DPDT, 10 AMP	104	23.0000	EA	400174	C-TAP, PINK, 54730
44	1.0000	EA	400595	FUSE, 10 AMP, SMALL DIN BUS, GLR10	105	3.0000	EA	400259	LUG, 2 HOLE, #2 BROWN, 3/8" BOLT, 1" C/C, LONG BARREL FLARED WITH WINDOW
45	50.0000	FT.	410111	CONDUIT, LFMC, 3/4", SEAL TIGHT					
	27.0000	FT.	410112	CONDUIT, LFMC, 1/2", SEAL TIGHT					
50	1.0000	EA	410117	CONNECTOR, LFMC, 1/2", STRAIGHT	106	11.0000	EA	400371	LUG, 2 HOLE, #6 BLUE, 1/4" BOLT, 3/4" C/C, LONG BARREL FLARED WITH WINDOW
51	4.0000	EA	410118	CONNECTOR, LFMC, 1/2", 90 DEGREE					
52	9.0000	EA	410128	CONNECTOR, LFMC, 3/4", 45 DEGREE	107	3.0000	EA	400390	LUG, 2 HOLE, #2 BROWN, 1/4" BOLT, 3/4" C/C, LONG BARREL FLARED WITH WINDOW
53	3.0000	EA	410148	CONNECTOR, LFMC, 1/2", 45 DEGREE	108	5.0000	EA	400500	CLAMP, GROUND 1/2"-1",GC-1Z, WEAVER
54	10.0000	FT.	410232	CONDUIT, LFMC, 2", SEAL TIGHT	109	1.0000	EA	470081	MINI LOUVER, 2" WHITE PLASTIC
55	1.0000	EA	410252	CONNECTOR, LFMC, 2", 45	110	1.0000	EA	470101	LOUVER, 42", INTAKE, FRAME, DAYTON, 1C210
56	1.0000	EA	420006	LABEL,BLK,ELECT,"GFCI"	111	1.0000	EA	470102	SHUTTER,MOTOR,2C832
57	1.0000	EA	420007	LABEL,BLK,ELECT,"ALARM BLOCK"	112	1.0000	EA	470105	LOUVER, 30", EXHAUST, FRAME, DAYTON, 1C085
58	3.0000	EA	420009	LABEL,BLK,ELECT,"INTERIOR LIGHT"	113	1.0000	EA	470204	LOUVER, 30", EXTENSION
59	1.0000	EA	420010	LABEL,BLK,ELECT,"AC PANEL"	114	1.0000	EA	470252-00001	LOUVER,6"STANDOFF FRAME,3"9 1/4"X3"
60	1.0000	EA	420011	LABEL,BLK,ELECT,"LOW TEMP"	115	1.0000	EA	480003	EYE WASH STATION, SINGLE 3202
61	1.0000	EA	420015	LABEL,BLK,ELECT,"HIGH TEMP"	116	1.0000	EA	480005	CELLXION BRASS GREEN SERIAL NO.PLATE
62	1.0000	EA	420016	LABEL,BLK,ELECT,"LEAD-LAG CONTROLL"	117	2.0000	EA	480006	SIGN, EXIT VINYL PHOSPHORESCENT
63	1.0000	EA	420017	LABEL,BLK,ELECT,"HVAC #2"	118	8.0000	EA	510016	CABLE LADDER, HAT BRACKET,2" X 1 1/2", CHB1
64	1.0000	EA	420018	LABEL,BLK,ELECT,"HVAC #1"	119	4.0000	EA	510020	CABLE LADDER, RED INSULATOR 1/4"-20

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CUSTOMER:  
**VERIZON WIRELESS**

PROJECT:  
**11'-8" X 30'-0"  
1HR/2HR STEEL SHELTER  
ITEM LIST**

FILENAME: VNE/DVNE36	TOLERANCE: N.T.S.
SCALE: N.T.S.	DATE: 4/28/06
DRWN. BY: K. GILLENTE	DATE: 4/28/06
CHK. BY: C. CASINGER	DATE: 4/28/06
ENG. BY: K. BARNETT	DATE: 4/28/06
APP. BY: S. LEGGETT	DATE: 4/28/06
SHEET NO. 0-1	
DRAWING NO.: DVNE36	B



Parts List				
ITEM	PCS	U/M	P/N	DESCRIPTION
	3	EA	350023	TELECO BOARD, 3/4" X 4' X 8", PAINTED BLACK
120	18	EA	510027	CABLE LADDER, AUX CABLE BRACKET, ACB25
121	4	EA	510028	CABLE LADDER, RED INSULATOR 5/8"-11
122	1	EA	510038	CABLE LADDER, 18", CLOSING BRACKET, GR
126	6	EA	510074	CABLE LADDER, FLOOR BRACKET, 3" X 1 1/2"
129	22	EA	510155	CABLE LADDER, TRAY HANGER, 17"
130	2	EA	521002	HVAC, GRILL, SUPPLY, 10" X 30"
131	2	EA	521102	HVAC, GRILL, RETURN, 16" X 30"
132	1	EA	530012	WAVEGUIDE ENTRY, 18 PORT, 4", 3X6
133	1	EA	540106	GROUND BAR, COPPER, 4" X 24" X 1/4", UNIVERSAL, RAW COPPER
134	1	EA	540108	GROUND BAR, COPPER, 2" X 14" X 1/4", TELCO
135	2	EA	540119	GROUND BAR, COPPER, 4" X 24" X 1/4", TINNED
136	5	EA	540216	GROUND STRAP ASSY, #6 THHN, 14 1/2"
137	4	EA	540225	GROUND STRAP ASSY, #6 THHN, 8" LONG
138	3	EA	540235	GROUND STRAP ASSY, #4 THHN, 12"
139	1	EA	CUSTOMER	GENERATOR, FUEL TANK, 210 GALLON, CUSTOMER SUPPLIED
140	1	EA	500000	DOOR, 3670, CURRIES, 18 GA, GALVANIZED
141	1	EA	500004	DOOR, 4068, CURRIES, LH/RH, 18GA
142	6	EA	504000	DOOR HINGES, STAINLESS STEEL 32D
143	2	EA	504100	DOOR, CLOSER, SARGENT 1104, ALUM
144	2	EA	504102	DOOR, BUMPER, SS RUBBER STOP, BROWN
145	2	EA	504113	DOOR, HOLD OPEN, T-LATCH, 6" SS
146	1	EA	504200	DOOR, WEATHERSTRIPPING, MAGNETIC 42"
147	1	EA	504210	DOOR, WEATHERSTRIPPING, MAGNETIC 48"
148	1	EA	504214	DOOR, WEATHER STRIP, SPONGE, 48" LONG
149	2	EA	504300	DOOR, LOCKGUARD, 10" 32D
150	2	EA	504503	LOCKSET, DEAD BOLT, CYLINDRICAL, BEST
151	4	EA	504504	DOOR, PULL HANDLE KASON, CAST, 382
152	2	EA	504555	DOOR, STRIKER PLATE, STANDARD
153	2	EA	540213	GROUND STRAP ASSY, #6 WELD, 30" LONG
154	2	EA	520138	HVAC, WALL, 5T SKW, MARVAR, BRN, W/ECON, AMP80CA05C
155	8	EA	188286	BOLT, 1" X 2 1/4" GRADE 8 HEX HEAD (PACKING LIST ITEM)
156	2	EA	220206	LIFTING LUG, 5" X 12" X 3/4", RH-LIFT (PACKING LIST ITEM)
157	2	EA	220207	LIFTING LUG, 5" X 12" X 3/4", LH-LIFT (PACKING LIST ITEM)
158	1	EA	360001	FIRE EXTINGUISHER, 10# CO2 FIRE, BADGER (PACKING LIST ITEM)
159	1	EA	410287	STRAP, UNISTRUT, 3" (PACKING LIST ITEM)
160	1	EA	480019	WASTE BASKET, CONTAINER, 28 QUART (PACKING LIST ITEM)
161	1	EA	480021	MAT, ENTRY, 3' X 5' (PACKING LIST ITEM)
162	1	EA	480022	BROOM, WITH CLIP, 258481 (PACKING LIST ITEM)
163	1	EA	480055	LADDER, STEP, 6', FIBERGLASS, 300 LB (PACKING LIST ITEM)
164	1	EA	480112	FRAME, DOCUMENT, 8"X10" (PACKING LIST ITEM)
165	1	EA	510142	UNISTRUT, 9" (PACKING LIST ITEM)
166	1	EA	550108	EXHAUST THIMBLE, 8" OD, 3" PIPE, ASSEMBLY (PACKING LIST ITEM)
167	8	FT	570002	HOSE, 3/4" X 1", CLEAR, POLY-VINYL HOSE
168	2	EA	570003	SPLICER, HOSE, 3/4", BARB, PVC
169	4	EA	663088	BRACKET, SHIPPING, TIE DOWN (USED TO THE SHELTER TO TRAILER FOR SHIPPING)
170	1	EA	CUSTOMER	PIPE, VENT CAP, 2" (PACKING LIST ITEM)
	6	EA	510048	CABLE LADDER, 18" X 9" 1/2", YELLOW ZINC

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CUSTOMER:  
**VERIZON WIRELESS**

PROJECT:  
**11'-8" X 30'-0"  
 1HR/2HR STEEL SHELTER  
 ITEMS LIST  
 CONTINUED**

FILENAME:  
 VNE/DVNE36  
 SCALE: N.T.S. TOLERANCE:  
 DRWN. BY: W. GILLENINE DATE: 4/28/06  
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 APP. BY: S. LEGGETT DATE: 4/28/06  
 SHEET NO.  
 0-2  
 DRAWING NO.: DVNE36 B

OPTIONAL COMPONENTS

OPTION	OPTION #	TAG #	QTY	U/M	PART NO.	DESCRIPTION
A	A1	1	1	EA	228-1108X3000-00	FLOOR, VIROC, 12" X 11'-8" X 30'-0"
		2	1	EA	504214	DOOR, WEATHER STRIP, SPONGE, 48" LONG
	1	1	EA	221-1108X3000-00	FLOOR, CONCRETE, 5" X 11'-8" X 30'-0"	
	A2	2	1	EA	504401	DOOR, THRESHOLD 48", ALUMINUM, 2 PIECE
		3	1	EA	504214	DOOR, WEATHERSTRIP, SPONGE, 48" LONG
		1	54	EA	310054	GYPSUM, 5/8", 4'X10' (1HR WALL ASSY)
B	B1	1	96	EA	310054	GYPSUM, 5/8", 4'X10' (2HR WALL ASSY)
	B2	1	1	EA	900038	GENERATOR, 80 KW, DIESEL, GENERAC, CUSTOMER SUPPLIED
C	C1	1	1	EA	900038	GENERATOR, 80 KW, LP, GENERAC, CUSTOMER SUPPLIED
		2	1	EA	550112-00001	STAND, GENERATOR, GENERAC
	C3	1	1	EA	900036	GENERATOR, 80 KW, DIESEL, KATOLITE, CUSTOMER SUPPLIED
	C4	1	1	EA	900037	GENERATOR, 80 KW, LP, KATOLITE, CUSTOMER SUPPLIED
D	D1	1	1	EA	550112-00002	STAND, GENERATOR, KATOLITE
		2	1	EA	470112	LOUVER, 30" H X 21"-36" W, 4F422, GALV ST.
E	E1	1	1	EA	470119	VENT HOOD, 32", 90", P&S SHEETMETAL
		1	1	EA	470113	LOUVER, 42"X24"-42"W, 4F423, GALV ST.
F	F1	1	1	EA	470120	VENT HOOD, 44", 90", P&S SHEETMETAL
		1	1	EA	570000	DOOR, CANOPY, 48", METAL (PACKING LIST ITEM)
		2	1	EA	570005	DOOR, CANOPY, 48", MOUNTING BRACKET
G	G1	1	1	EA	504400	DOOR, DRIP CAP, NGF 18A, 48"
		1	1	EA	570018	DOOR, CANOPY, 54", METAL (PACKING LIST ITEM)
		2	1	EA	570005	DOOR, CANOPY, 48", MOUNTING BRACKET
H	H1	1	1	EA	504405	DOOR, DRIP CAP, NGF 18A, 54"
		1	22	EA	300004-00001	PANEL, EXT, AGG, SUNSET BEACH, REG

SHELTER REQUIRES ONE OPTION NUMBER FROM EACH OPTION LISTED.

NOTE THAT SOME OPTION NUMBERS ARE A KIT W/ MULTIPLE PARTS.

OPTIONS ARE IDENTIFIED ON THE DRAWING BY THE OPTION LETTER X, BY OPTION NO. XX, OR BY THE OPTION TAG NO. XX-X

SHOP DETAILS

30-002	BOX TO BOX PENETRATION DETAIL
30-004	BOX TO GFCI PENETRATION DETAIL
40-001	ELECTRICAL NOTES
40-002	ELECTRICAL LEGEND
41-006	GENERAC ATS ALARM WIRING SCHEMATIC
41-007	GENERAC GENERATOR ALARM WIRING SCHEM.
50-001	GROUND BAR MOUNTING INSTALLATION
50-002	Y DROP DETAIL-#2 STRANDED
50-006	GROUNDING DETAILS T-JUNCTION
50-008	GROUNDING DETAILS-2 SIDES
50-013	HALO GROUND TO DOOR FRAME
50-020	BONDING AT CONDUIT
50-026	Y DROP DETAIL-#6 WIRE
50-034	HVAC GRILL GROUNDING DETAIL
50-035	THRU WALL PENETRATION
50-038	BONDING AT WIREWAY
50-041	GROUND DROP EXT. PIGTAIL
50-042	WIRE STANDOFF INSTALLATION
50-044	CONNECTION AT GROUND BAR
51-005	WEATHERSTRIP INSTALLATION
51-007	DOOR LOCKGUARD INSTALLATION
51-008	DOOR PULL HANDLE INSTALLATION
51-009	DOOR HOLD OPEN INSTALLATION
51-010	DOOR CLOSER DETAIL
51-012	DOOR CANOPY INSTALLATION
51-013	ID SIGN LOCATION
51-015	STEEL SHELTER DOOR HDWR INSTALL
51-025	DOOR THRESHOLD WEATHERSTRIP INSTALL
51-026	DOOR THRESHOLD CONCRETE FLOOR INSTALL
52-003	STRAIGHT CLAMP INSTALLATION
52-004	CORNER CLAMP INSTALLATION
52-025	WALL BRACKET INSTALLATION
52-017	DOGLEG INSTALLATION
52-018	HANGER BRACKET CONNECTION
52-020	HANGER BRACKET INSTALLATION
53-001	WAVEGUIDE ENTRY INSTALLATION
55-006	HVAC INSTALLATION

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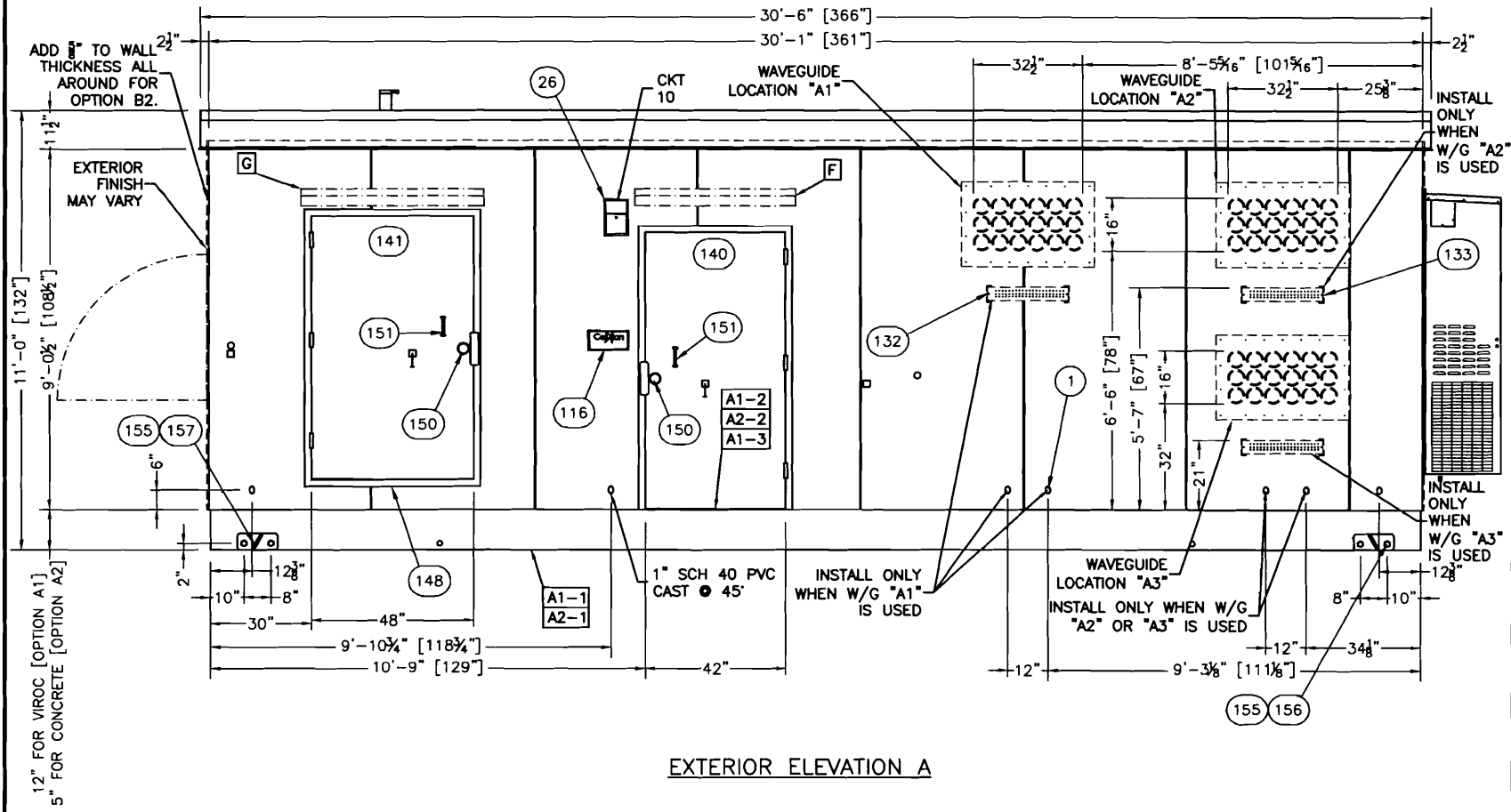
CUSTOMER:  
**VERIZON WIRELESS**

PROJECT:  
**11'-8" X 30'-0"  
 1HR/2HR STEEL SHELTER  
 OPTIONAL LIST/  
 SHOP DETAILS**

FILENAME: VNE/DVNE36	
SCALE: N.T.S.	TOLERANCE:
DRWN. BY: W. GILLENTHINE	DATE: 4/28/06
CHK. BY: C. CASINGER	DATE: 4/28/06
ENG. BY: K. BARNETT	DATE: 4/28/06
APP. BY: S. LEGGETT	DATE: 4/28/06
SHEET NO. 0-3	
DRAWING NO.: DVNE36	
B	

B	JWR	8/7/06	REVISED PER DVNE36-A-01 MARKUPS	VGH	8/7/06
REV BY	DATE	DESCRIPTION	APP BY	DATE	

SUB-PARTS LIST			
ITEM	P/N	DESCRIPTION	PCS
1	170000	PIPE, PVC, SCH 40, 1", CAST @45°	8



EXTERIOR ELEVATION A

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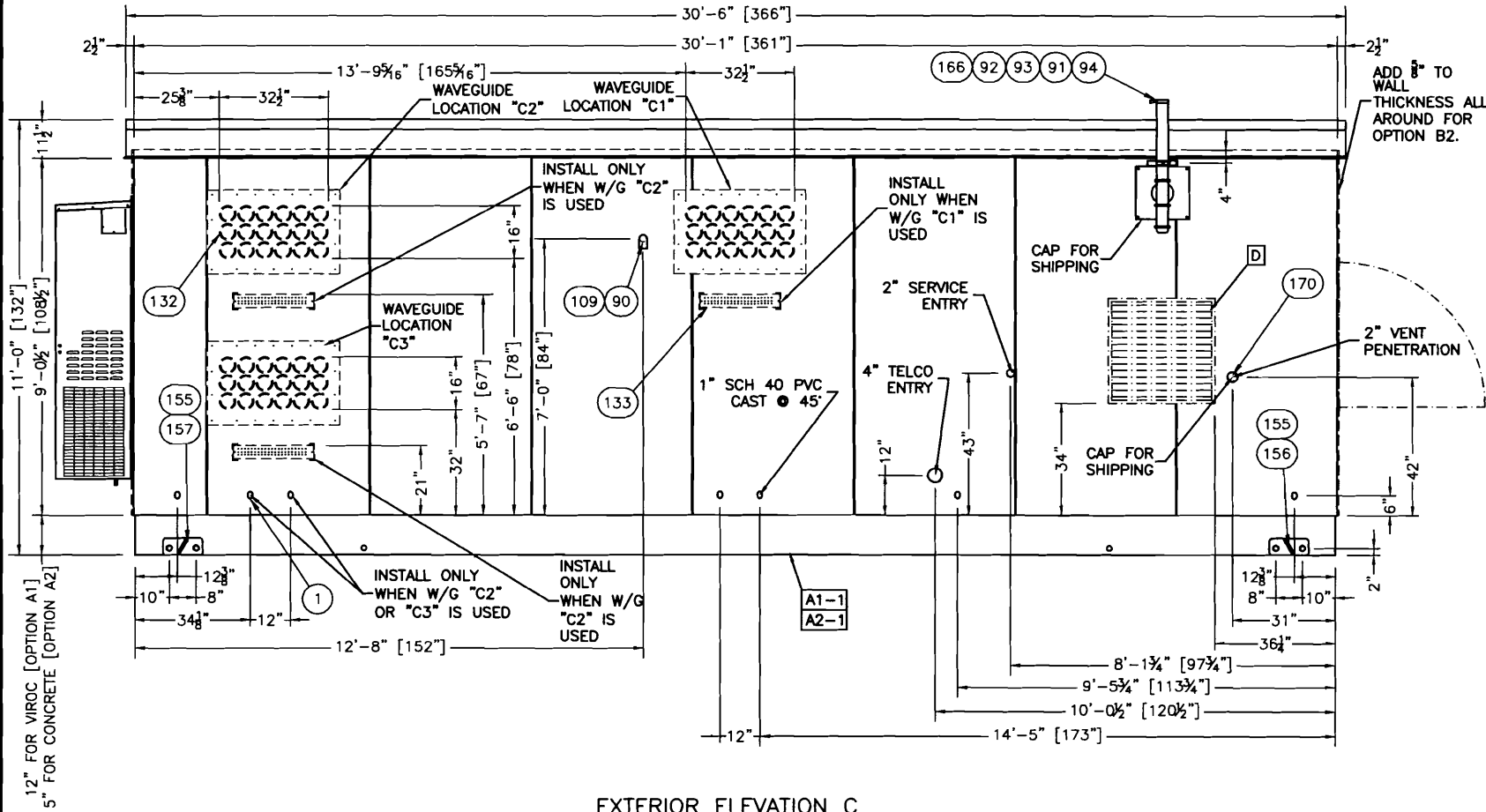
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 fax: (318) 213-2919  
 www.cellixion.com

CUSTOMER:  
**VERIZON WIRELESS**

PROJECT:  
 11'-8" X 30'-0"  
 1HR/2HR STEEL SHELTER  
 EXTERIOR ELEVATION  
 PANEL "A"

FILENAME: VNE/DVNE36	TOLERANCE: 3/8" = 1'-0"
DRWN. BY: W. GILLENTINE	DATE: 4/28/06
CHK. BY: C. CASINGER	DATE: 4/28/06
ENG. BY: K. BARNETT	DATE: 4/28/06
APP. BY: S. LEGGETT	DATE: 4/28/06
SHEET NO. 1-0	
DRAWING NO.: DVNE36	B

SUB-PARTS LIST				
ITEM	P/N	DESCRIPTION	CUT	PCS
1	170000	PIPE, PVC, SCH 40, 1", CAST @45°	12"	8



EXTERIOR ELEVATION C

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CUSTOMER:  
**VERIZON WIRELESS**

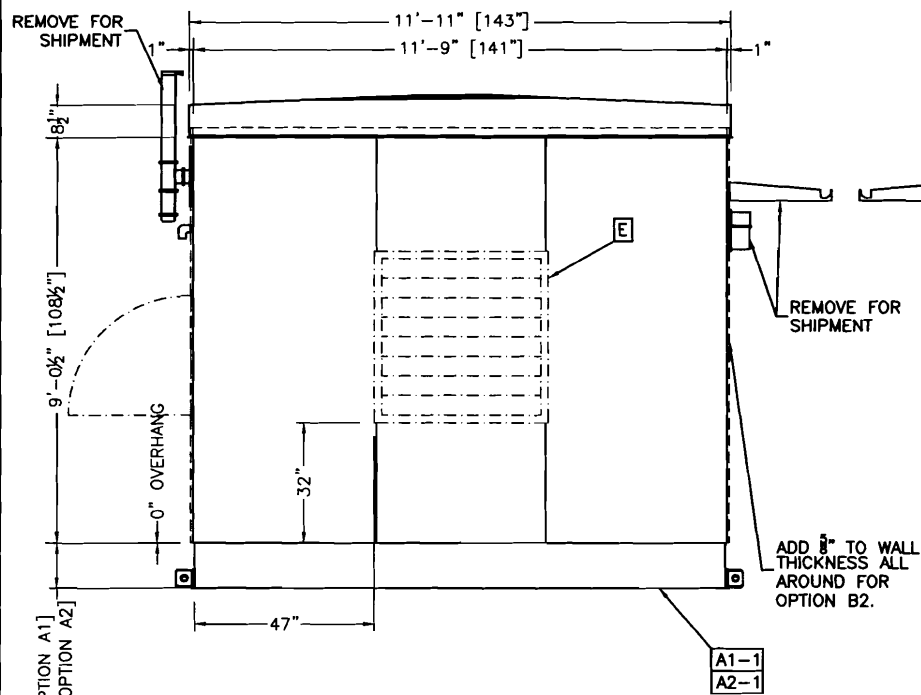
PROJECT:  
 11'-8" X 30'-0"  
 1HR/2HR STEEL SHELTER  
 EXTERIOR ELEVATION  
 PANEL C

FILENAME: VNE/DVNE36	
SCALE: 3/8" = 1'-0"	TOLERANCE:
DRWN. BY: W. OLLENTINE	DATE: 4/28/06
CHK. BY: C. CASINGER	DATE: 4/28/06
ENG. BY: K. BARNETT	DATE: 4/28/06
APP. BY: S. LEGGETT	DATE: 4/28/06
SHEET NO. 1-1	

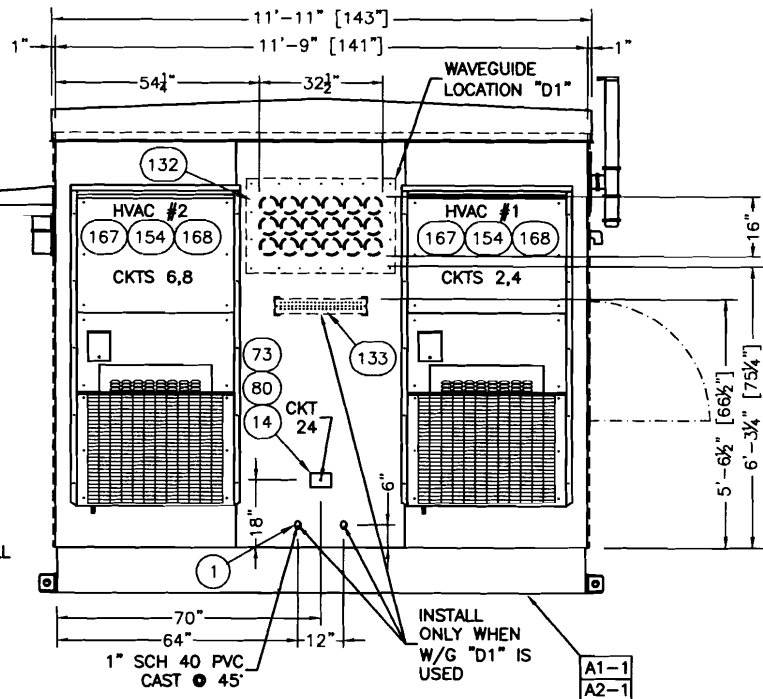
DRAWING NO.:  
**DVNE36**

B

SUB-PARTS LIST				
ITEM	P/N	DESCRIPTION	CUT	PCS
1	170000	PIPE, PVC, SCH 40, 1", CAST @45°	12"	8



EXTERIOR ELEVATION B



EXTERIOR ELEVATION D

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CUSTOMER:  
**VERIZON WIRELESS**

PROJECT:  
 11'-8" X 30'-0"  
 1HR/2HR STEEL SHELTER  
 EXTERIOR ELEVATION  
 PANELS "B & D"

FILENAME:  
 VNE/DVNE36  
 SCALE:  
 3/8" = 1'-0"  
 TOLERANCE:  
 3/8" = 1'-0"  
 DRWN. BY:  
 W. GILLENINE 4/28/06  
 CHK. BY:  
 C. CASINGER 4/28/06  
 ENG. BY:  
 K. BARNETT 4/28/06  
 APP. BY:  
 S. LEGGETT 4/28/06

SHEET NO.  
 1-2  
 DRAWING NO.:  
 DVNE36

B

12" FOR VIROC [OPTION A1]  
 5" FOR CONCRETE [OPTION A2]

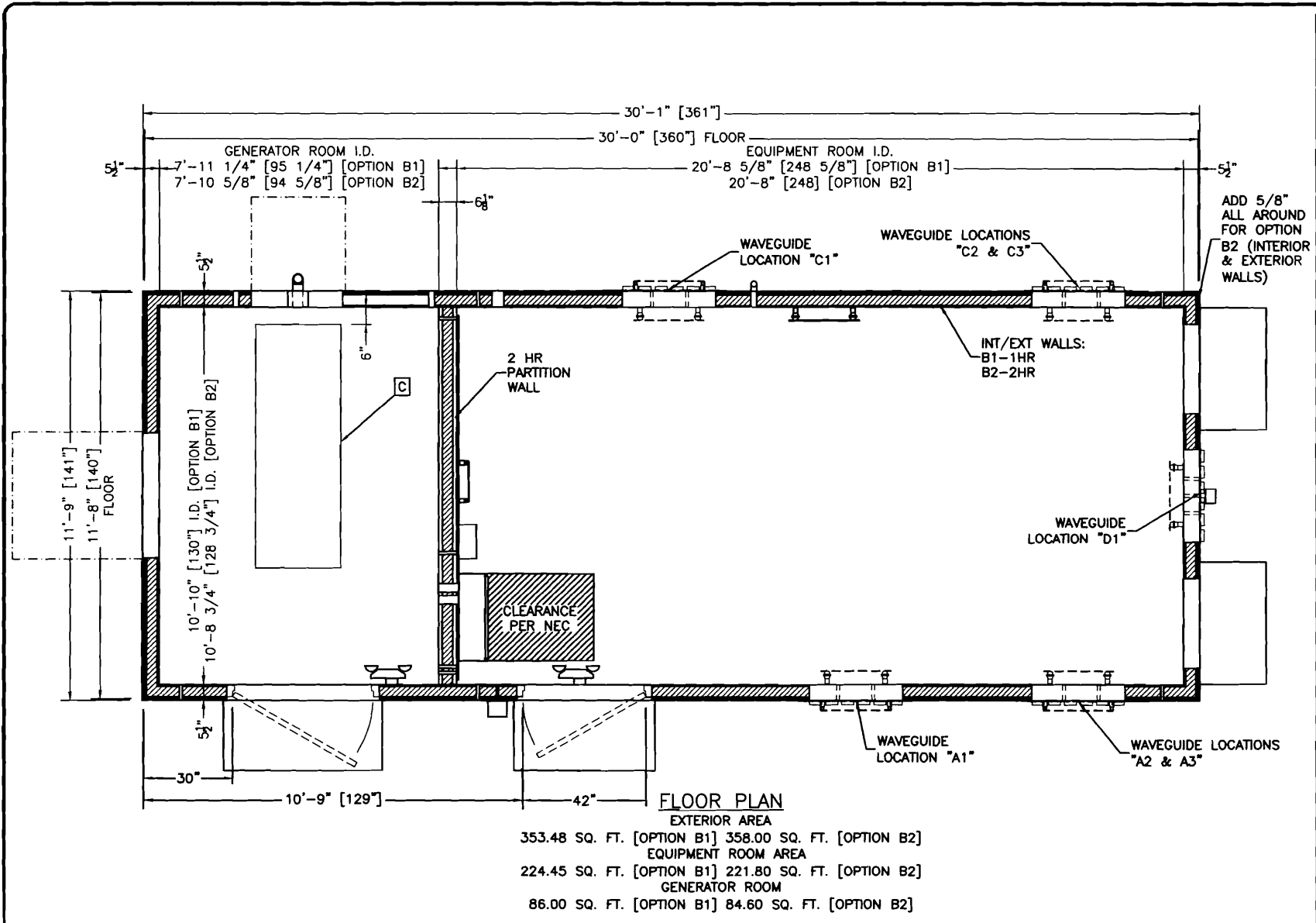
A1-1  
 A2-1

A1-1  
 A2-1

ADD 3/8" TO WALL THICKNESS ALL AROUND FOR OPTION B2.

INSTALL ONLY WHEN W/G "D1" IS USED

1" SCH 40 PVC CAST @ 45°



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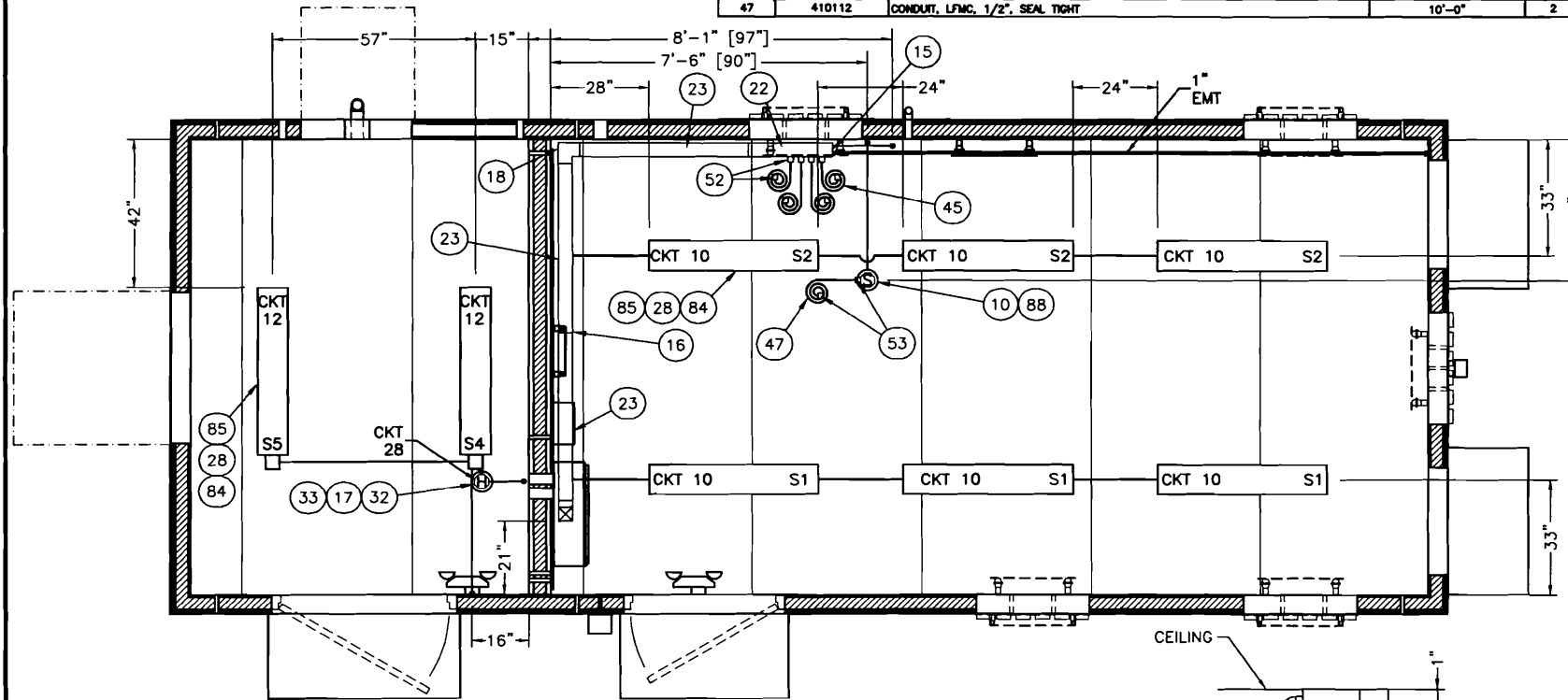
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CUSTOMER:  
**VERIZON WIRELESS**

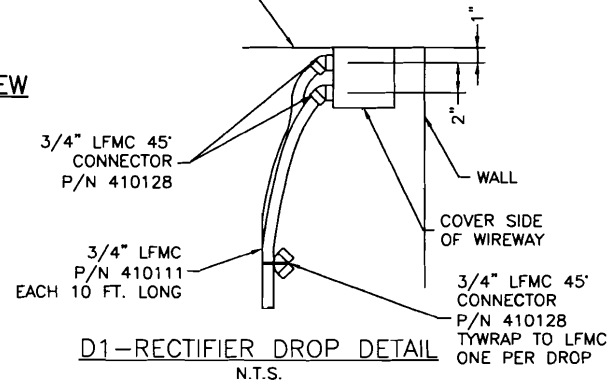
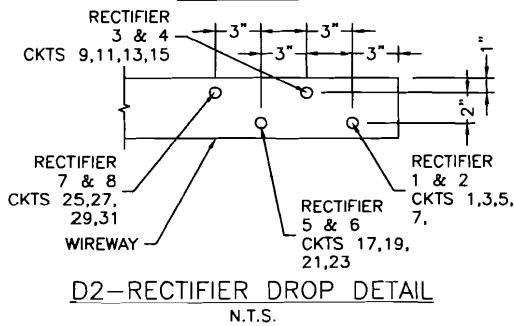
PROJECT:  
**11'-8" X 30'-0" 1HR/2HR STEEL SHELTER FLOOR PLAN**

FILENAME: VNE/DVNE36	
SCALE: 3/8" = 1'-0"	TOLERANCE:
DRWN. BY: W. GILBERTINE	DATE: 4/28/06
CHK. BY: C. CASINGER	DATE: 4/28/06
ENG. BY: K. BARNETT	DATE: 4/28/06
APP. BY: S. LEGGETT	DATE: 4/28/06
SHEET NO. 2-0	
DRAWING NO.: DVNE36	B

SUB-PARTS LIST				
ITEM	P/N	DESCRIPTION	CUT	PCS
23	430288	WIREWAY, GALVANIZED, 4" X 4" X 48", WITHOUT KNOCKOUTS	48"	3
22	430287	WIREWAY, GALVANIZED, 4" X 4" X 24", WITHOUT KNOCKOUTS	24"	2
45	410111	CONDUIT, LFMC, 3/4", SEAL TIGHT	10'-0"	5
47	410112	CONDUIT, LFMC, 1/2", SEAL TIGHT	10'-0"	2



REFLECTED CEILING VIEW  
ELECTRICAL



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CUSTOMER:  
VERIZON WIRELESS

PROJECT:  
11'-8" X 30'-0"  
1HR/2HR STEEL SHELTER  
CEILING VIEW  
ELECTRICAL

FILENAME:  
VNE/DVNE36

SCALE:  
3/8" = 1'-0"

DRWN. BY:  
M. GILLENLINE

CHK. BY:  
C. CASINGER

ENG. BY:  
K. BARNETT

APP. BY:  
S. LEGGETT

SHEET NO.  
3-0

DRAWING NO.  
DVNE36

TOLERANCE:  
DATE:  
4/28/06

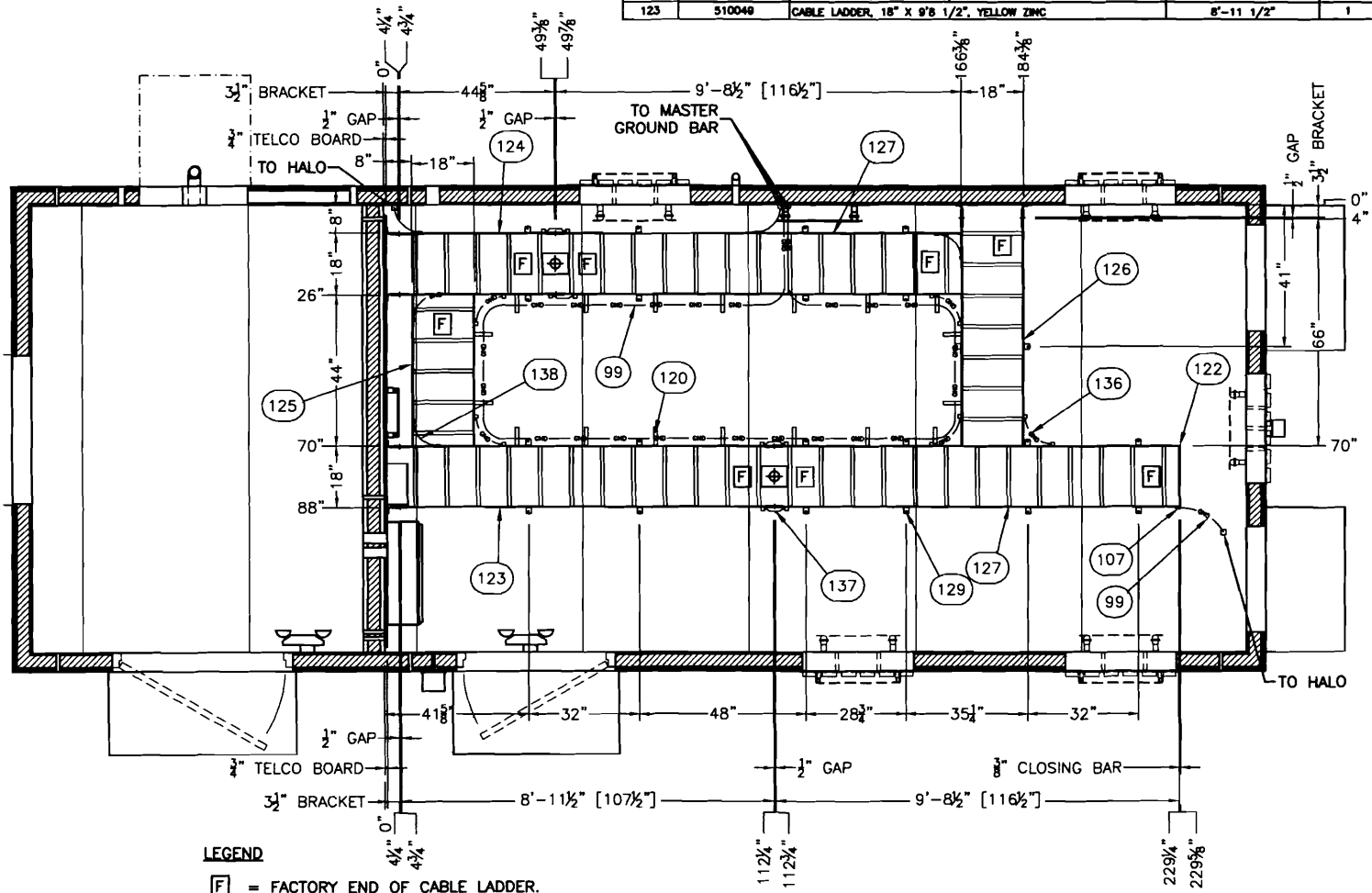
DATE:  
4/28/06

DATE:  
4/28/06

DATE:  
4/28/06

B

SUB-PARTS LIST				
ITEM	P/N	DESCRIPTION	CUT	PCS
125	510049	CABLE LADDER, 18" X 9'8 1/2", YELLOW ZINC	44"	1
127	510049	CABLE LADDER, 18" X 9'8 1/2", YELLOW ZINC	9'-8 1/2"	2
124	510049	CABLE LADDER, 18" X 9'8 1/2", YELLOW ZINC	44 5/8"	1
126	510049	CABLE LADDER, 18" X 9'8 1/2", YELLOW ZINC	5'-5"	1
123	510049	CABLE LADDER, 18" X 9'8 1/2", YELLOW ZINC	8'-11 1/2"	1



**LEGEND**  
 [F] = FACTORY END OF CABLE LADDER.  
 ⊕ = CABLE LADDER SPLICE.

**REFLECTED CEILING VIEW  
 MECHANICAL**

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CUSTOMER:  
**VERIZON WIRELESS**

PROJECT:  
 11'-8" X 30'-0"  
 1HR/2HR STEEL SHELTER  
 CEILING VIEW  
 MECHANICAL

FILENAME:  
 VNE/DVNE36  
 SCALE:  
 3/8" = 1'-0"  
 TOLERANCE:  
 ±.005"  
 DRAWN BY:  
 W. GILLENINE  
 DATE:  
 4/28/06  
 CHK. BY:  
 C. CASINGER  
 DATE:  
 4/28/06  
 ENG. BY:  
 K. BARNETT  
 DATE:  
 4/28/06  
 APP. BY:  
 S. LEGGETT  
 DATE:  
 4/28/06

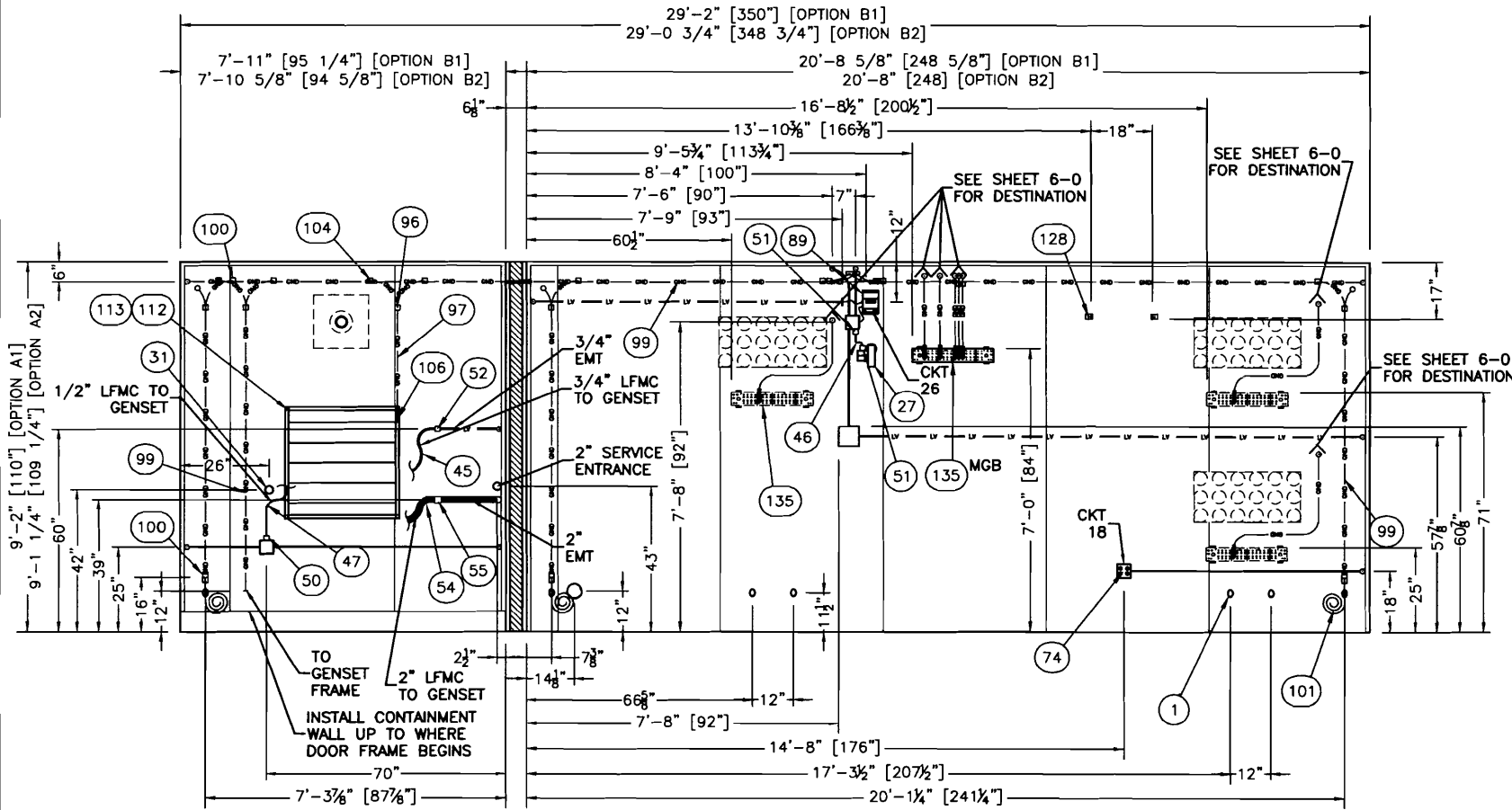
SHEET NO.  
 3-1  
 DRAWING NO.:  
 DVNE36  
 B

REV	BY	DATE	DESCRIPTION	APP. BY	DATE
B	JWR	8/7/06	REVISED PER DVNE36-A-06 MARKUPS	VGH	8/7/06





SUB-PARTS LIST				
ITEM	P/N	DESCRIPTION	CUT	PCS
31	170022	PIPE, BLK, SCH 40, 2"	12"	1
45	410111	CONDUIT, LFMC, 3/4", SEAL TIGHT	10'-0"	5
48	410112	CONDUIT, LFMC, 1/2", SEAL TIGHT	12"	1
47	410112	CONDUIT, LFMC, 1/2", SEAL TIGHT	10'-0"	2
54	410232	CONDUIT, LFMC, 2", SEAL TIGHT	10'-0"	1
101	400099	WIRE, #2 SOLID, BARE, TINNED	10'-0"	6



INTERIOR ELEVATION C

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CUSTOMER:  
**VERIZON WIRELESS**

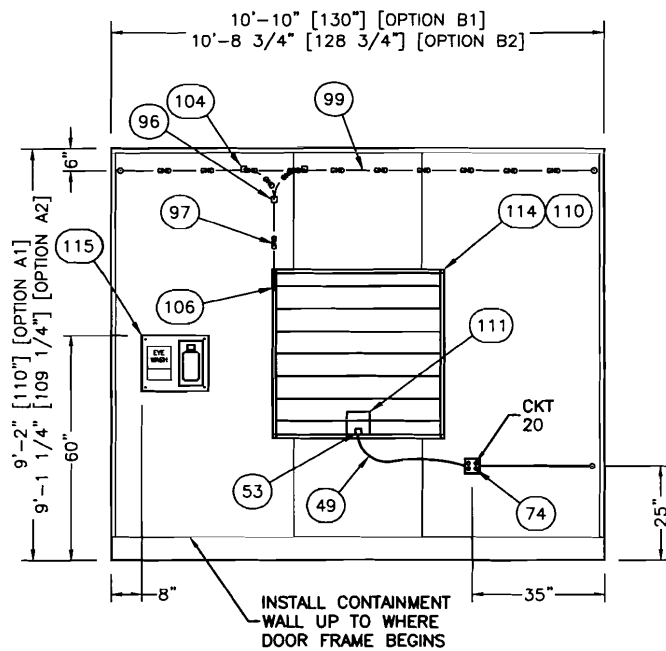
PROJECT:  
 11'-8" X 30'-0"  
 1HR/2HR STEEL SHELTER  
 INTERIOR ELEVATION  
 PANEL C

FILENAME: VNE/DVNE36	TOLERANCE: 3/8" = 1'-0"
DRWN. BY: W. GILLETINE	DATE: 4/28/06
CHK. BY: C. CASINGER	DATE: 4/28/06
ENC. BY: K. BARNETT	DATE: 4/28/06
APP. BY: S. LEGGETT	DATE: 4/28/06
SHEET NO. 4-7	

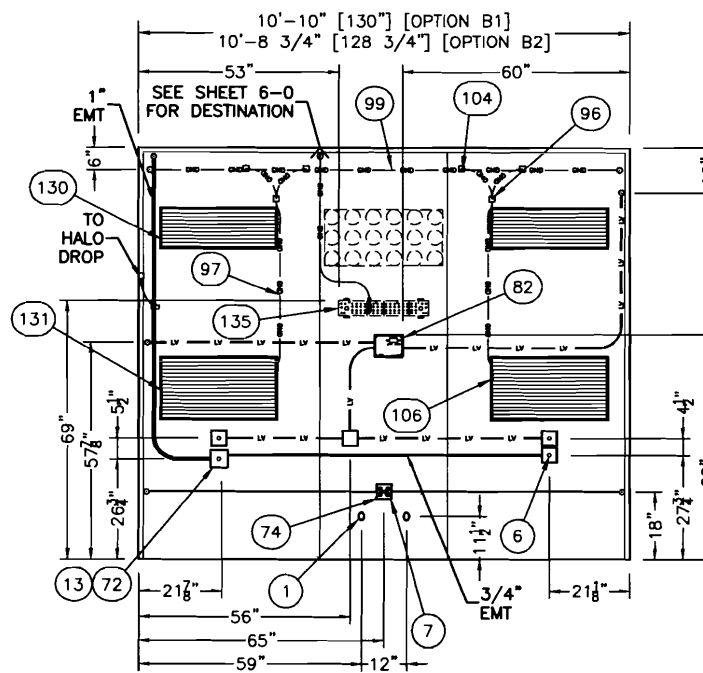
DRAWING NO.:  
**DVNE36**

B JWR	8/7/06	REVISED PER DVNE36-A-06 MARKUPS	VGH	8/7/06
REV BY	DATE	DESCRIPTION	APP BY	DATE

SUB-PARTS LIST				
ITEM	PCS	U/M	P/N	DESCRIPTION
48	1	FT.	410112	CONDUIT, LFMC, 1/2", SEAL TIGHT



INTERIOR ELEVATION B



INTERIOR ELEVATION D

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CUSTOMER:  
 VERIZON WIRELESS

PROJECT:  
 11'-8" X 30'-0"  
 1HR/2HR STEEL SHELTER  
 INTERIOR ELEVATION  
 PANELS B & D

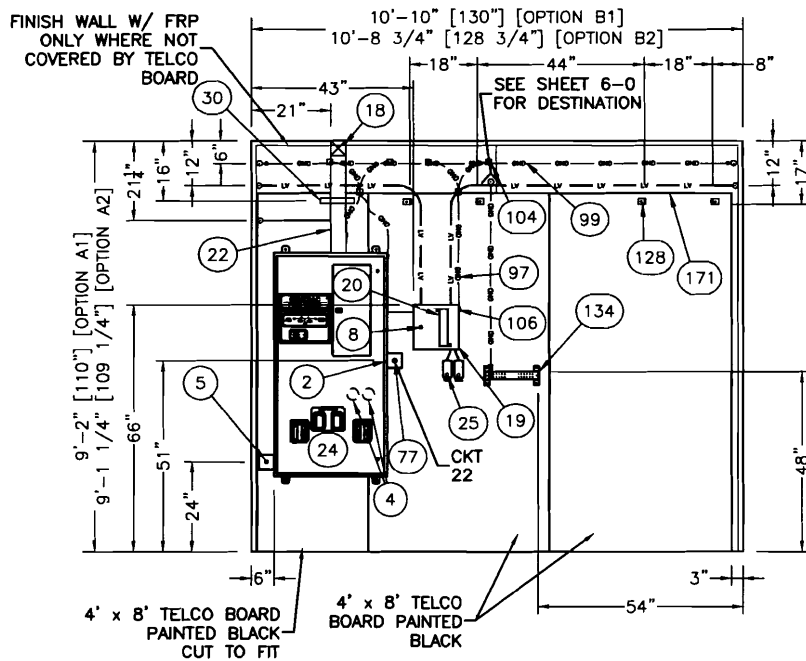
FILENAME:  
 VNE/DVNE36  
 SCALE:  
 3/8" = 1'-0"  
 TOLERANCE:  
 DRWN. BY: W. GILLENTHINE DATE: 4/28/06  
 CHK. BY: C. CASINGER DATE: 4/28/06  
 ENG. BY: K. BARNETT DATE: 4/28/06  
 APP. BY: S. LEGGETT DATE: 4/28/06

SHEET NO.  
 4-2

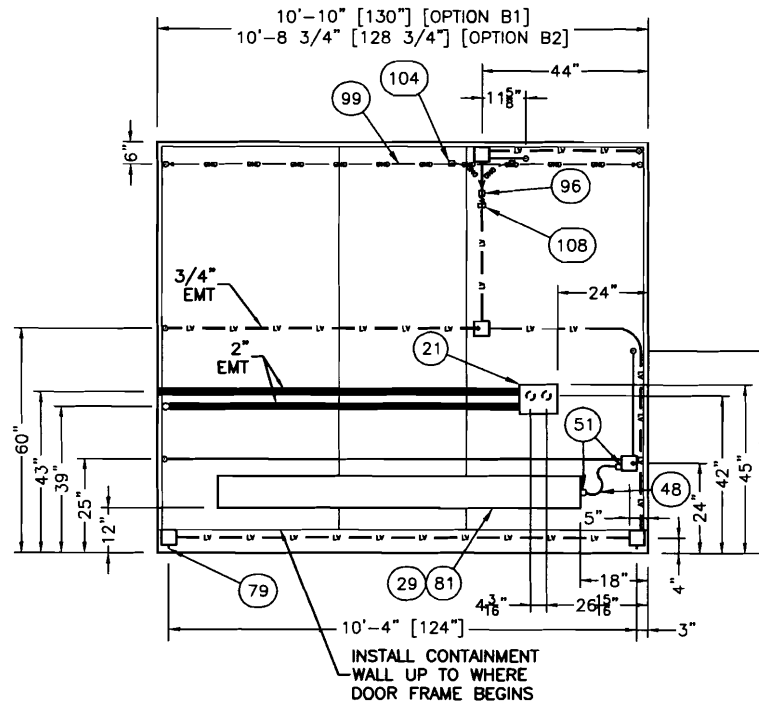
DRAWING NO.:  
 DVNE36 B

B	JWR	8/7/06	REVISED PER DVNE36-A-06 MARKUPS	VGH	8/7/06
REV BY	DATE		DESCRIPTION	APP BY	DATE

SUB-PARTS LIST				
ITEM	P/N	DESCRIPTION	CUT	PCS
22	430287	WIREWAY, GALVANIZED, 4" X 4" X 24", WITHOUT KNOCKOUTS	24"	2
48	410112	CONDUIT, LFMC, 1/2", SEAL TIGHT	24"	1



INTERIOR PARTITION E



INTERIOR PARTITION F

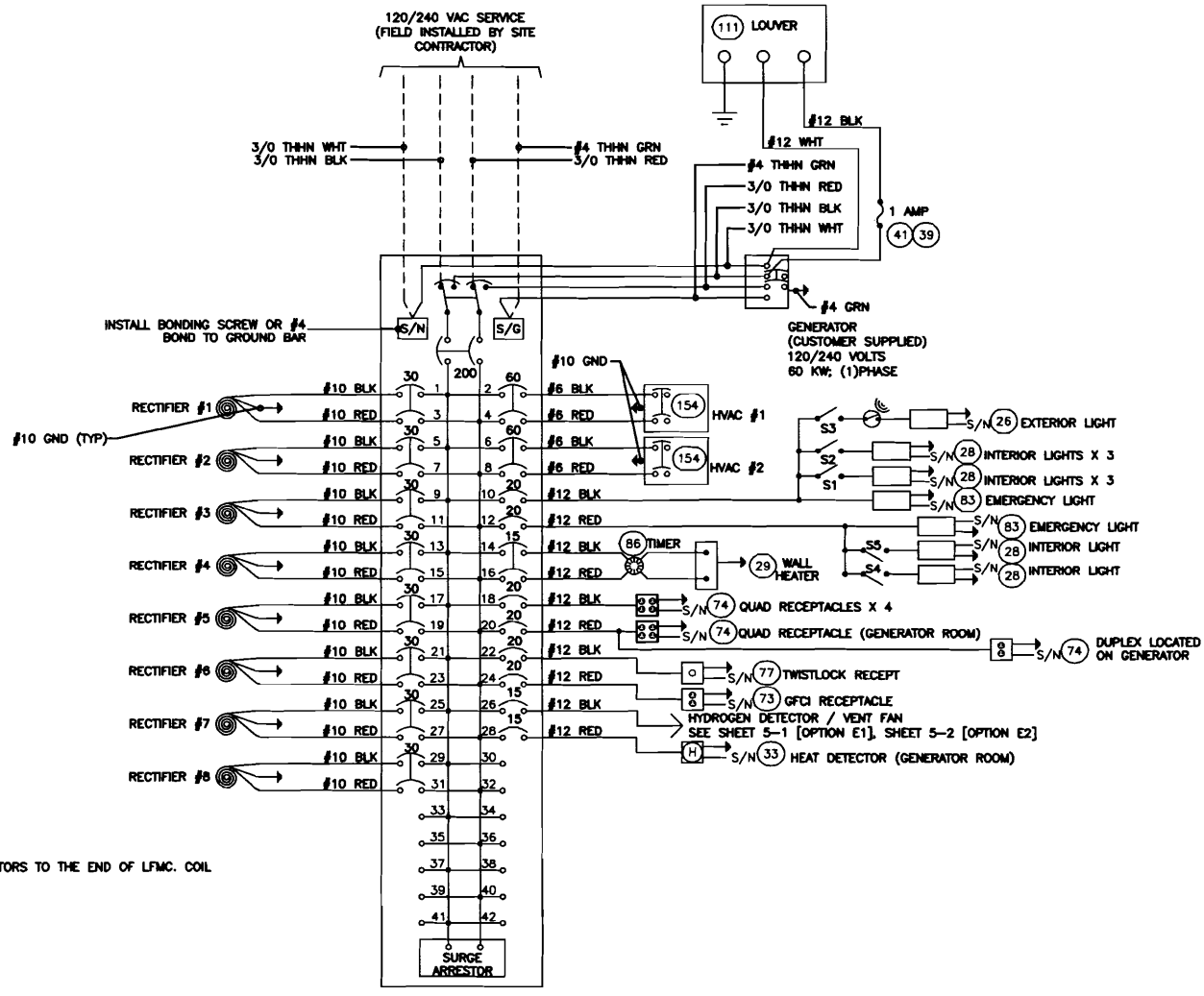
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 fax: (318) 213-2919  
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CUSTOMER:  
**VERIZON WIRELESS**

PROJECT:  
**11'-8" X 30'-0" 1HR/2HR STEEL SHELTER INTERIOR ELEVATION PARTITION E & F**

FILENAME: VNE/DVNE36	
SCALE:	TOLERANCE:
DRWN. BY: W. GILLETTE	DATE: 4/28/06
CHK. BY: C. CASINGER	DATE: 4/28/06
ENG. BY: K. BARNETT	DATE: 4/28/06
APP. BY: S. LEGGETT	DATE: 4/28/06
SHEET NO. 4-3	
DRAWING NO.: DVNE36	B



INSTALL BONDING SCREW OR #4 BOND TO GROUND BAR

GENERATOR (CUSTOMER SUPPLIED)  
120/240 VOLTS  
60 KW; (1)PHASE

**NOTES:**

1. PULL RECTIFIER CONDUCTORS TO THE END OF LFMC. COIL AND TAG 3'-0" EXTRA.

COMBINED PANEL 120/240V, 200A, 42SP  
AUTO TRANSFER GENERAC

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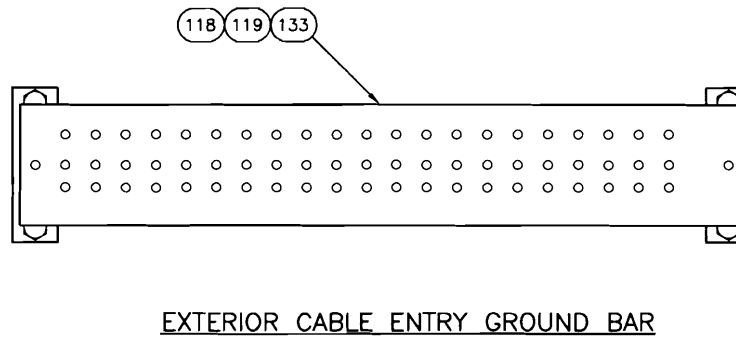
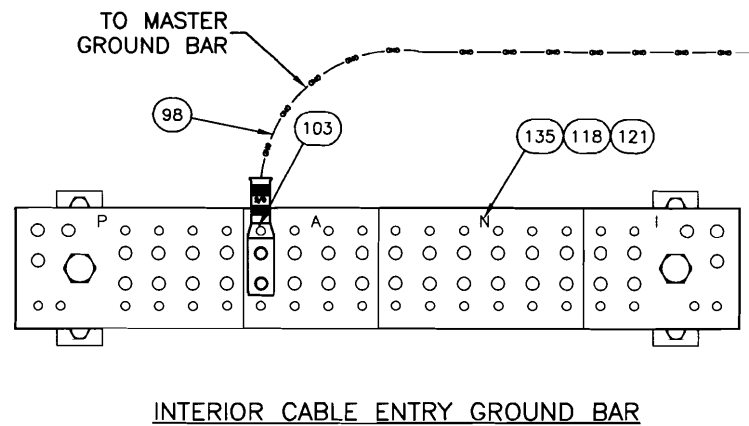
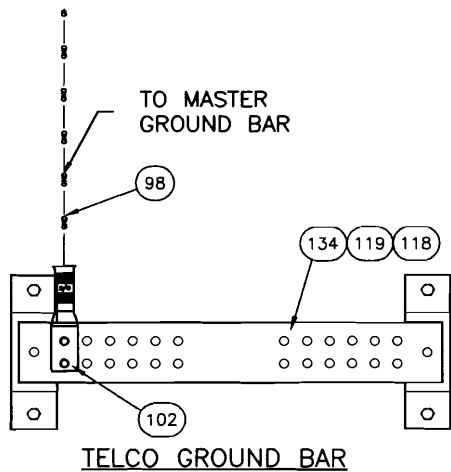
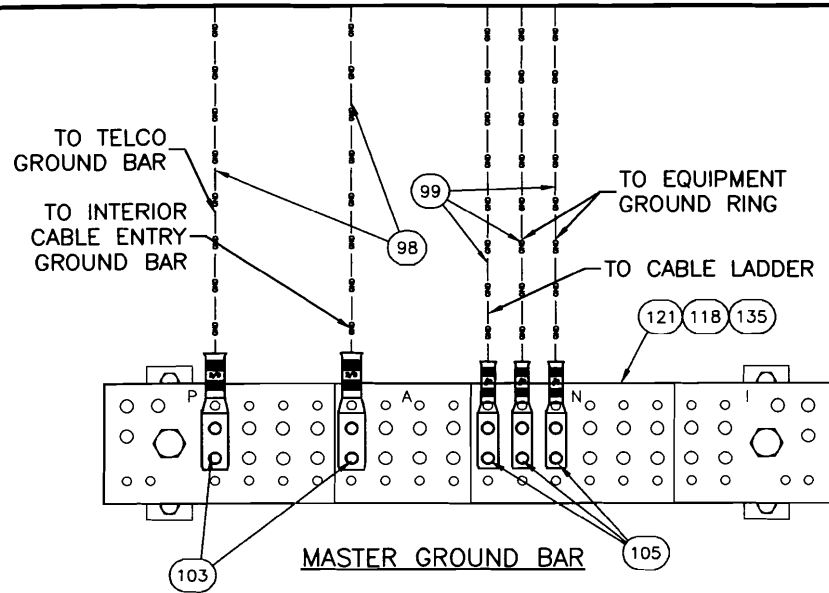
**Cellixion**  
50,31 Hazel Jones Road  
Bossier City, Louisiana 71111  
voice: (318) 213-2900  
fax: (318) 213-2919  
www.cellixion.com

CUSTOMER:  
**VERIZON WIRELESS**

PROJECT:  
11'-8" X 30'-0"  
1HR/2HR STEEL SHELTER  
ELECTRICAL SCHEMATIC

FILENAME: VNE/DVNE36	
SCALE: N.T.S.	TOLERANCE:
DRWN. BY: W. CALLENTINE	DATE: 4/28/06
CHK. BY: C. CASINGER	DATE: 4/28/06
ENG. BY: K. BARNETT	DATE: 4/28/06
APP. BY: S. LEGGETT	DATE: 4/28/06
SHEET NO. 5-0	
DRAWING NO.: DVNE36	B





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 Bossier City, Louisiana 71111  
 voice: (318) 213-2900  
 fax: (318) 213-2919  
 www.cellxion.com

CUSTOMER:  
 VERIZON WIRELESS

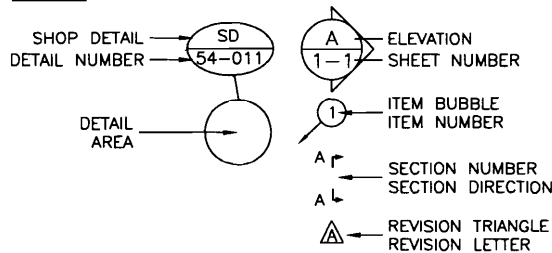
PROJECT:  
 11'-8" X 30'-0"  
 1HR/2HR STEEL SHELTER  
 GROUND BAR  
 DETAILS

FILENAME: VNE/DVNE36	
SCALE: 1/4" = 1"	TOLERANCE:
DRWN. BY: W. GILLENTE	DATE: 4/28/06
CHK. BY: C. CASINGER	DATE: 4/28/06
ENG. BY: K. BARNETT	DATE: 4/28/06
APP. BY: S. LEDGETT	DATE: 4/28/06
SHEET NO. 6-0	
DRAWING NO.: DVNE36	B

**ABBREVIATIONS**

A	AMPS	LV	LOW VOLTAGE
⊙	AT	MFG	MANUFACTURER
BCW	BARE COPPER WIRE	MISC	MISCELLANEOUS
BLK	BLACK	NEC	NATIONAL ELECTRIC CODE
BLU	BLUE	NEG	NEGATIVE
BRN	BROWN	NEMA	NATIONAL ELECTRIC MANUFACTURER'S ASSOCIATION
BLDG	BUILDING	NOM	NOMINAL
BOCA	BUILDING OFFICIALS CODE ADMINISTRATION	NO	NORMALLY OPEN
C	CENTERLINE	NC	NORMALLY CLOSED
C/C	CENTER TO CENTER	NTS	NOT TO SCALE
CKT	CIRCUIT	OR	ORANGE
CONC	CONCRETE	OD	OUTSIDE DIAMETER/OUTSIDE DIMENSION
CU YD	CUBIC YARD	OSB	ORIENTED STRAND BOARD
DIAM	DIAMETER	P	POLE
DIM	DIMENSION	PDC	POWER DISTRIBUTION CABINET
DP	DOUBLE POLE	POS	POSITIVE
DPDT	DOUBLE POLE DOUBLE THROW	LB	POUND (S)
DPST	DOUBLE POLE SINGLE THROW	PSF	POUNDS PER SQUARE FOOT
DT	DOUBLE THROW	PSI	POUNDS PER SQUARE INCH
DWG	DRAWING	QTY	QUANTITY
EA	EACH	RECPT	RECEPTACLE
EGR	EQUIPMENT GROUND RING	RECT	RECTIFIER
ELEC	ELECTRIC/ELECTICAL	RECB	REINFORCING STEEL BAR
EMT	ELECTRICAL METALLIC TUBING	REQ'D.	REQUIRED
ENT	ELECTRICAL NONMETALLIC TUBING	REV	REVISION
ELEV	ELEVATION	R	RIGHT
EQUIP	EQUIPMENT	RH	RIGHT HAND
EXT	EXTERIOR	SHT	SHEET
FMLC	FLEXIBLE METALLIC LIQUID TIGHT CONDUIT	T <sub>Ø</sub>	SINGLE PHASE
FNLC	FLEXIBLE NONMETALLIC LIQUID TIGHT CONDUIT	SPDT	SINGLE POLE DOUBLE THROW
FND	FOUNDATION	SPST	SINGLE POLE SINGLE THROW
FRP	FIBERGLASS REINFORCED POLYESTER	SW	SINGLE POLE SWITCH
FS	FIRE SUPPRESSION	SO FT	SQUARE FEET
GALV	GALVANIZED	SO IN	SQUARE INCH
GEN	GENERATOR	STD	STANDARD
GRN	GREEN	SBC	STANDARD BUILDING CODE
GND	GROUND	SW	SWITCH
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TEMP	TEMPERATURE
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING	TS/STAT	THERMOSTAT
HOR	HORIZONTAL	3 <sub>Ø</sub>	THREE PHASE
LAW	IN ACCORDANCE WITH	3P	THREE POLE
IN	INCH	3W	THREE WIRE
ID	INSIDE DIAMETER/INSIDE DIMENSION	TYP	TYPICAL
INSUL	INSULATION	UL	UNDERWRITERS LABORATORIES INC.
INT	INTERIOR	UBC	UNIFORM BUILDING CODE
IMC	INTERNATIONAL MECHANICAL CODE	UMC	UNIFORM MECHANICAL CODE
IPC	INTERNATIONAL PLUMBING CODE	VENT	VENTILATION
IG	ISOLATED GROUND	V	VOLT
JB	JUNCTION BOX	W	WATTS
KW	KILOWATT	WP	WEATHER PROOF
KO	KNOCKOUT	WLD	WELDED
L	LEFT	WWF	WELDED WIRE FABRIC
LH	LEFT HAND	WHT	WHITE
LTG	LIGHT/LIGHTNING	W/	WITH
LL	LIVE LOAD	W/O	WITHOUT
		YEL	YELLOW

**SYMBOLS**



A	CC	7/27/04	REVISED DETAIL SYMBOL	VCH	7/27/04
REV. BY	DATE		DESCRIPTION	APP. BY	DATE

ENGINEER SEAL

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www.cellxion.com

CUSTOMER:  
**ENGINEERING STANDARD**

PROJECT:  
**ABBREVIATIONS AND SYMBOLS**

FILENAME:  
108-007

SCALE:	TOLERANCE:
1"=1"	NA
DRWN. BY:	DATE:
C.CASINGER	12/4/03
CHK. BY:	DATE:
K.BARNETT	12/4/03
ENG. BY:	DATE:
K.BARNETT	12/4/03
APP. BY:	DATE:

SHEET NO./PART NO.:  
1 OF 1

DRAWING NO.:	REV:
108-007	A



**GENERAL NOTES**

- ALL STEEL FABRICATION AND INSTALLATION SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL AND AWS D1.1 SPECIFICATIONS.
- ALL WELDING SHALL BE MIG TYPE WITH THE FOLLOWING OPERATING SETTINGS:  


WIRE SIZE -----	0.35
WIRE FEED SPEED (in/min) -----	5
VOLTAGE, DC (+) -----	18.5
AMPERAGE, DC -----	140
TRAVEL SPEED (in/min) -----	10-12
SHIELDING GAS -----	75/25
- STRUCTURAL STEEL SPECIFICATIONS:  
 STRUCTURAL SHAPES ASTM A36  
 HIGH STRENGTH BOLTS, ASTM A325  
 OTHER BOLTS, SAE J429 GRADE 5
- ALL CONCRETE WORK SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE (A.C.I.) BUILDING CODES 31 & 211, AND ASTM STANDARDS C-172, C-31, C-39, AND PROVISIONS OF C-94.
- ALL PRECAST STRUCTURAL SAND-LIGHTWEIGHT CONCRETE SHALL HAVE A MIN. COMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS.
- ALL REINFORCING STEEL BARS SHALL BE DOMESTIC, NEW BILLET STEEL CONFORMING TO ASTM A-615 GRADE 60 SPECIFICATIONS.
- CONCRETE COVERAGE OVER ALL REINFORCING STEEL SHALL BE A MINIMUM OF 3/4".
- ALL REBAR SHALL BE TIED 100% AT THE PERIMETER, AND 50% ELSEWHERE.
- ALL REBAR WIRE TIES TO BE 16 GAUGE.
- FIBROUS REINFORCED LIGHTWEIGHT CONCRETE MAY BE USED IN THE ROOF AND FLOOR, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS. FIBER REINFORCEMENT MAY BE USED IN THE FLOOR IF DESIRED. IN ORDER TO MAKE BATCHING OPERATION MORE EFFICIENT.
- MAXIMUM JOINT SPACE BETWEEN PANELS SHALL BE 3/8" MEASURED BY REFUSAL OF ABILITY TO PASS A 3/8" ROD ALL THE WAY THROUGH THE JOINT AT ANY POINT ALONG THE JOINT.
- WELD PLATE CONNECTIONS SHALL BE SPACED AT 4'-8" MAXIMUM ON THE FLOOR AND ROOF PANELS. THIS DIMENSION SHALL BE MAINTAINED EXCEPT IN CASES WHERE OPENINGS PROHIBIT.
- TOLERANCES SHALL BE AS FOLLOWS:  
 PANEL THICKNESS: ±1/8"  
 PANEL SIZE: ±1/16"  
 PANEL SQUARENESS: ±1/8" AGREEMENT ON DIAGONALS  
 LOCATION OF BLOCKOUTS & PVC'S: ±1/4"  
 BLOCKOUT DIMENSIONS: +1/4", -0"  
 PVC SIZE: USE TRADE SIZE AS LISTED ON PROJECT DRAWINGS
- REBAR SPLICING IS ALLOWED WHERE SPACE PERMITS. MIN LAP IS 18" FOR #4 REBAR AND 30" FOR #6 REBAR.

GENERAL: THESE REBAR SIZES AND SPACINGS REPRESENT THE MINIMUM AMOUNT FOR ALL CASTING PLANS. PROJECT DRAWINGS MAY REQUIRE REINFORCEMENT IN ADDITION TO CELLXION STANDARDS.

ROOF PANEL: #4 (SHORT AXIS) 12" O.C. AND #4 (LONG AXIS) AT 18" O.C.  
 WALL PANEL: #4 AT PERIMETER AND 4 X 4 X W4.5 X W4.5 MESH THROUGHOUT.  
 FLOOR: (2)-#6 (SHORT AXIS) EACH RIB, #6 (LONG AXIS) EACH INTERIOR RIB. DECK: 4 X 4 X W4.5 X W4.5 MESH.

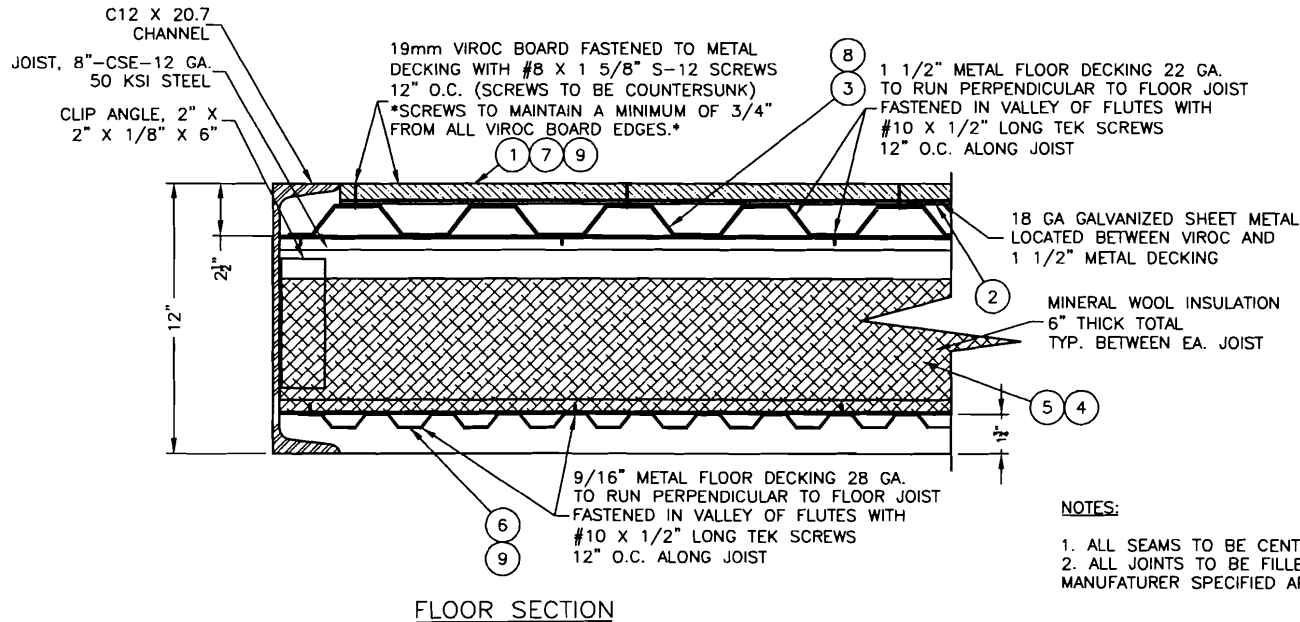
**SEALANT APPLICATION**

- AT MATING SURFACES BETWEEN PANELS, APPLY URETHANE SEALANT (1/2" BEAD) DURING ASSEMBLY.
- URETHANE SEALANT REQUIRED ON ALL JOINTS. APPLY TO EXTERIOR AFTER PANEL ASSEMBLY.
- ROOF MEMBRANE:  
 APPLY SEALER TO ROOF PER MFG. DIRECTIONS. USE 1 GALLON PER 70 SQ. FEET. ROOFING MEMBRANE TO CONFORM TO OBC 1507.15.2.
- APPLY AGGREGATE SEALER TO EXTERIOR WALLS. USE 1 GALLON PER 200 SQ. FEET.
- USE TEXTURED SEALER ON ALL SMOOTH EXPOSED SURFACES. USE CEMENTITIOUS GRAY PAINT.

ENGINEER SEAL	
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CUSTOMER: <b>ENGINEERING STANDARD</b>	
PROJECT: <b>GENERAL CASTING SPECIFICATIONS</b>	
FILENAME: 108-016	
SCALE: 1"=1"	TOLERANCE:
DRWN. BY: C. CASINGER	DATE: 7/28/04
CHK. BY:	DATE:
ENG. BY: K. BARNETT	DATE: 7/28/04
APP. BY:	DATE:
SHEET NO./PART NO.: 1 OF 1	
DRAWING NO.: 108-016	REV.: B

B	VGH	01/18/05	REVISED STEP 3 OF SEALANT APPLICATION	VGH	01/18/05
A	CC	12/6/05	REVISED NOTE #11	KB	12/6/05
REV BY	DATE	DESCRIPTION		APP BY	DATE

Parts List				
ITEM	QTY	U/M	P/N	DESCRIPTION
1	1	EA.	350010	VIROC, 19mm x 4' x 8'
2	1	EA.	146503	SHEET METAL, 18GA x 4' x 8' GALV
3	1	EA.	148501	DECKING, 1 1/2", 22GA, 3' x 10'
4	1	EA.	360035	MINERAL WOOL INSULATION, 2" x 2' x 4'
5	1	EA.	360036	MINERAL WOOL INSULATION, 4" x 2' x 4'
6	1	EA.	148502	DECKING, 9/16", 28GA, 3' x 10' GALV
7	1	EA.	310025	SEALANT FOAM, ENERBOND SF, 16LBS
8	1	EA.	168222	SCREW, #10 x 1/2", PHIL, TEK
9	1	EA.	168223	SCREW, #8 x 1 5/8", 5-12, PHIL



**NOTES:**

1. ALL SEAMS TO BE CENTERED OVER RIDGE.
2. ALL JOINTS TO BE FILLED WITH ENERBOND SF PER MANUFACTURER SPECIFIED APPLICATION.

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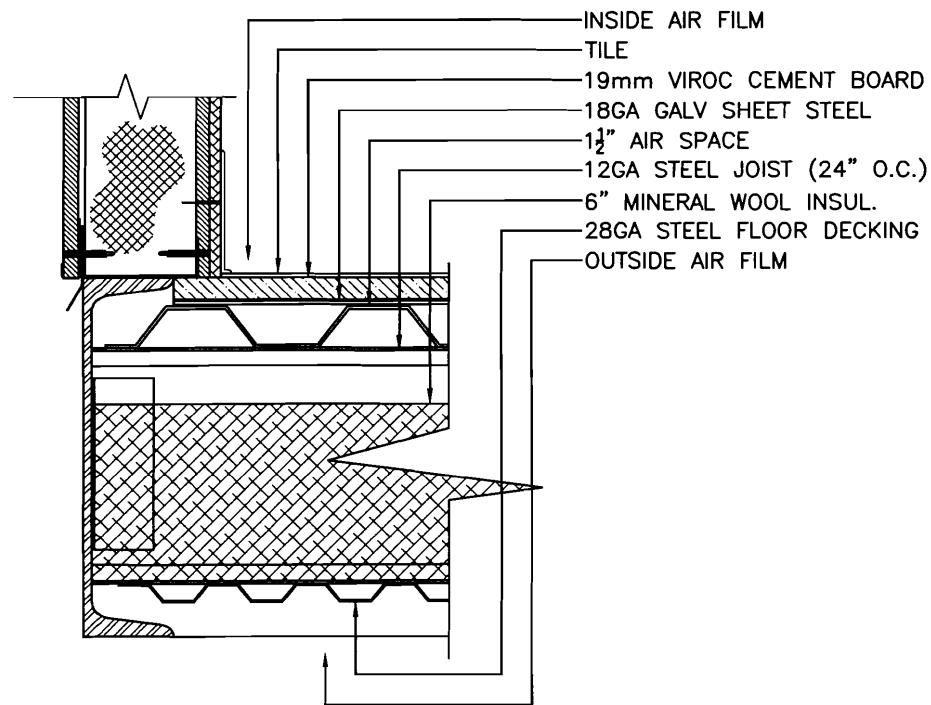
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Chandler, AZ 85226  
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CUSTOMER:  
**ENGINEERING STANDARD**

PROJECT:  
**STEEL SHELTER VIROC FLOOR SECTION DETAILS**

FILENAME: 10B-027	
SCALE: 1/4"=1"	TOLERANCE:
DRWN. BY: C.CASINGER	DATE: 3/24/05
CHK. BY: V. HASSELL	DATE: 3/24/05
ENG. BY: K. BARNETT	DATE: 3/24/05
APP. BY:	DATE:
SHEET NO./PART NO.: 1 OF 2	
DRAWING NO.: 10B-027	REV:



	JOIST	INSUL.	
INSIDE AIR FILM	1.10	1.10	
TILE	0.05	0.05	
19mm VIROC CEMENT BOARD	0.27	0.27	
18GA GALV SHEET STEEL	0.0	0.0	
1 1/2" AIR SPACE	3.27	3.27	
12GA STEEL JOIST (24" O.C.)	0.0	--	
6" MINERAL WOOL INSUL.	--	19.00	
28GA STEEL FLOOR DECKING	0.0	0.0	
OUTSIDE AIR FILM	0.25	0.25	
<hr/>			
	4.94	23.94	TOTAL 'R'
	0.202	0.042	TOTAL 'U'
	0.005	0.995	SURFACE AREA RATIO
	0.001	0.042	U-FACTOR PER SURFACE AREA
<hr/>			
	0.043		OVERALL U-FACTOR
	23.49		OVERALL R-VALUE

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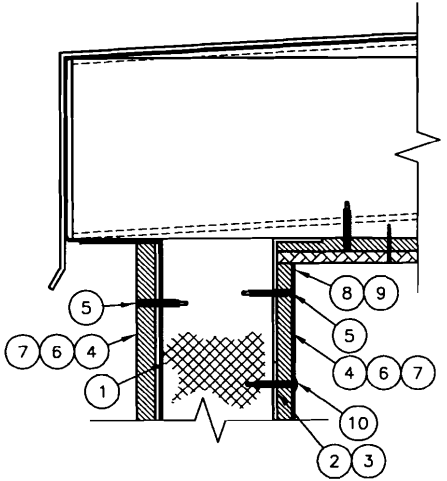
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Cary, NC 27513  
(voice) 318-213-2900 (fax) 318-213-2919  
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CUSTOMER:  
**ENGINEERING STANDARD**

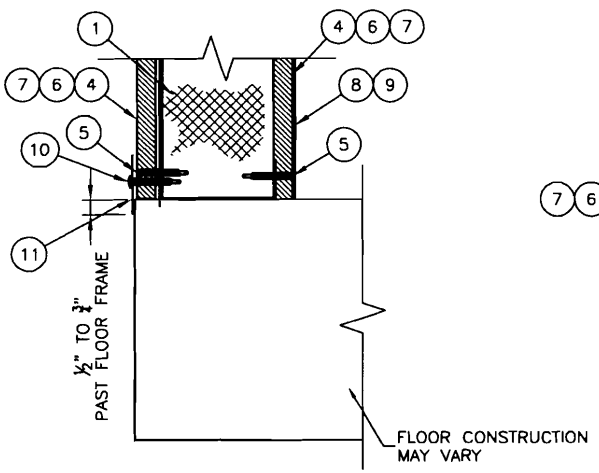
PROJECT:  
**STEEL SHELTER  
VIROC FLOOR  
R VALUE  
'U' FACTOR**

FILENAME: 108-027	
SCALE: 1/4"=1'	TOLERANCE:
DRWN. BY: C. CASINGER	DATE: 3/24/05
CHK. BY: V. HASSELL	DATE: 3/24/05
ENG. BY: K. BARNETT	DATE: 3/24/05
APP. BY:	DATE:
SHEET NO./PART NO.: 2 OF 2	
DRAWING NO.: 108-027	REV:

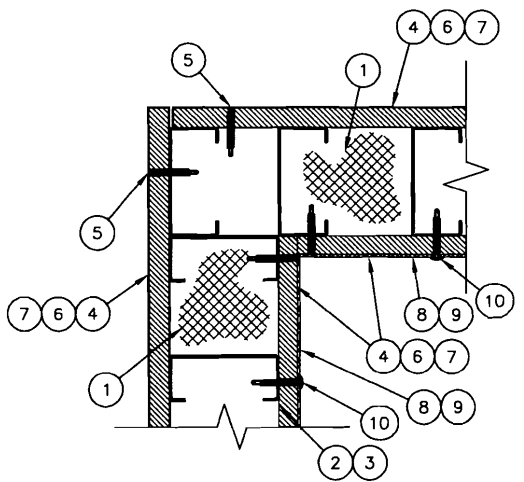
Parts List					
ITEM	QTY	U/M	P/N	DESCRIPTION	
1	1	EA.	360049	INSULATION, BATT, R-13, NO VAPOR	
2	1	EA.	350011	POLY, CLEAR, 6 MIL, 20' X 100' ROLL	
3	1	EA.	480064	TAPE, DOUBLE SIDED, 1"	
4	1	EA.	310054	GYPSUM, 5/8" X 4' X 10', FIRE RATED	
5	1	EA.	168230	SCREW, #8 X 1 1/4", S-12, PHIL	
6	1	EA.	310030	JOINT COMPOUND, GYPSUM	
7	1	EA.	310029	TAPE, DRYWALL, F/G MESH SELF-ADHV	
8	1	EA.	300007	PANEL, FRP, .090, X 4' X 9'	
9	1	EA.	310032	ADHESIVE, FRP, CLEAR	
10	1	EA.	168232	SCREW, #8 X 1 7/8", PHIL, MOD, TRUSS, TEX	
11	1	EA.	146509	FLASHING, 24GA GALV, 2" WIDE	



WALL/ROOF SECTION



WALL/FLOOR SECTION



CORNER SECTION

NOTES:

1. INSTALL R-13 INSULATION W/ NO VAPOR BARRIER BETWEEN WALL STUDS.
2. COVER WALL STUDS AND INSULATION ON INTERIOR W/ POLY USING DOUBLE SIDED TAPE. POLY TO RUN FULL LENGTH & HEIGHT OF WALLS, TYP ALL WALLS.
3. INSTALL 5/8" GYPSUM HORIZ. OR VERT. OVER WALL STUDS. JOINTS TO BE OVER STUDS AND STAGGERED 12" MIN. ON OPPOSITE SIDES OF STUDS. USE #8 X 1 1/4" S-12 BUGLE HEAD SCREW SPACED 12" O.C. ALONG STUDS TYP INT. AND EXT.
4. MUD AND TAPE ALL JOINTS AND SCREW HEADS USING VINYL OR CASEIN, DRY OR PREMIXED JOINT COMPOUND APPLIED IN TWO COATS. PAPER TAPE NOM. 2" WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS. TYP INT. AND EXT.
5. INSTALL FRP PANELING OVER GYPSUM USING FRP ADHESIVE APPLY 100% COVERAGE TO BACK OF FRP PANELING USING MANUFACTURERS RECOMMEND TROWEL. USE #8 X 1 1/4" S-12 BUGLE HEAD SCREW AT FRP EDGES SPACED 16" O.C. AND USE #8 X 1 7/8" PHIL, MOD, TRUSS SCREW SPACED 16" O.C. ALONG WALL STUDS NOT AT EDGES. PRIOR TO INSTALLING FRP, WIPE CLEAN ALL DUST AND DEBRIS FROM GYPSUM.
6. INSTALL 2" GALV FLASHING AROUND BOTTOM PERIMETER. FASTEN W/ #8 SCREW TO BOTTOM TRACK 16" O.C. (ON EXTERIOR)

REV	BY	DATE	DESCRIPTION	APP. BY	DATE
B	CC	5/31/06	CHG NOTE 5	KB	5/18/06
A	CC	5/17/06	CHG NOTE 6, ADDED 24GA GALV FLASHING	KB	5/17/06

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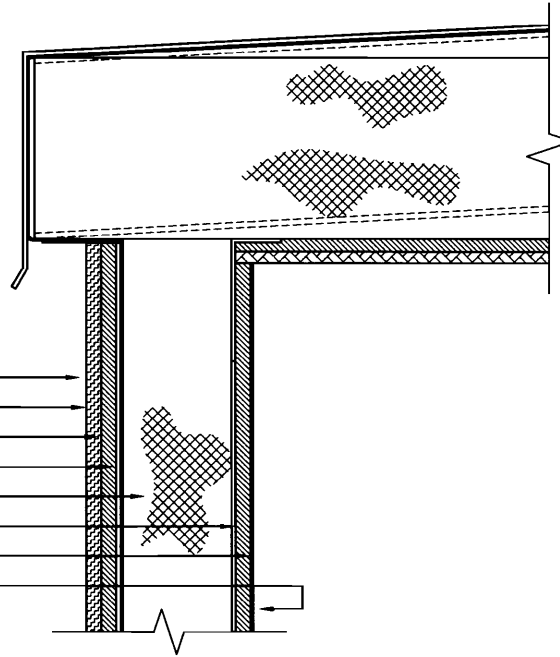
CUSTOMER:  
**ENGINEERING STANDARD**

PROJECT:  
**1HR STEEL SHELTER  
 UL ASSY # U423  
 WALL SECTION DETAILS**

FILENAME: 108-044	TOLERANCE: 1/4"=1"
DRWN. BY: C. CASINGER	DATE: 5/4/06
CHK. BY: Y. MASSELL	DATE: 5/4/06
ENG. BY: K. BARNETT	DATE: 5/4/06
APP. BY:	DATE:

SHEET NO./PART NO.:  
 1 OF 2

DRAWING NO.:  
**108-044** **B**



STUD	INSUL	
0.25	0.25	OUTSIDE AIR FILM
VARIES	VARIES	EXTERIOR FINISH
0.56	0.56	5/8" GYPSUM
0.0	--	18GA STL STUD @16"
--	13.00	R13 BATT INSUL
0.56	0.56	5/8" GYPSUM
0.0	0.0	.090 FRP PANELING
1.70	1.70	INSIDE AIR FILM
<hr/>		
3.07	16.07	TOTAL 'R'
0.326	0.062	TOTAL 'U'
0.003	0.997	SURFACE AREA RATIO
0.001	0.062	U-FACTOR PER SURFACE AREA

**0.063 OVERALL U-FACTOR**  
**15.87 OVERALL R-VALUE**

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 fax: (318) 213-2919  
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CUSTOMER:  
**ENGINEERING STANDARD**

PROJECT:  
**1HR STEEL SHELTER  
 UL ASSY # UA23  
 U/R VALUES**

FILENAME: 10B-044	
SCALE: 1/4"=1"	TOLERANCE:
DRWN. BY: C. CASINGER	DATE: 5/4/06
CHK. BY: V. HASSELL	DATE: 5/4/06
ENG. BY: K. BARNETT	DATE: 5/4/06
APP. BY:	DATE:
SHEET NO./PART NO.: 2 of 2	
DRAWING NO.: 10B-044	A

MEMORANDUM OF LEASE

THIS MEMORANDUM OF LEASE is made as of this 19<sup>th</sup> day of JAN., 2006, pursuant to Title 33, Section 201 of the Maine Revised Statutes, with respect to the following described Lease:

DATE OF LEASE: 1/19, 2006  
NAME OF LANDLORD: City of Portland, Maine  
NAME OF TENANT: Cellco Partnership, d/b/a Verizon Wireless

DESCRIPTION OF  
DEMISED PREMISES:

LESSOR hereby leases to LESSEE certain areas of the roof of the Airport's Terminal located at 1001 Westbrook Street, Portland, Maine, as shown on the attached Exhibit A incorporated herein, together with the non-exclusive right for ingress and egress to the Premises, seven (7) days a week, twenty-four (24) hours a day for the purpose of installation and maintenance of the demised premises, which roof space and access are collectively referred to hereinafter as the "Premises". The locations and descriptions of LESSEE's communications facility and equipment installations are as shown on Exhibit B attached to the Lease.

LESSOR also grants to the LESSEE the right and sufficient space for the installation and maintenance of wires, cables, conduits and pipes as shown in said Exhibit "B" running from the leased floor space to the leased roof space.

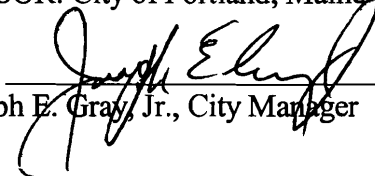
TERM: Initial term of five (5) years  
EXTENSION TERMS: Three (3) five (5) year option terms

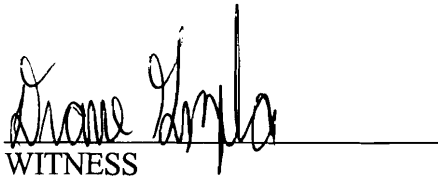
THIS MEMORANDUM OF LEASE is prepared for recording and for the purpose of making a public record of said Lease dated as of JAN 19, 2006 and it is intended that the parties shall be subject to all of the provisions of the Lease and that nothing herein shall be construed or deemed to alter or change any of the terms or provision of the Lease.

IN WITNESS WHEREOF, the parties hereto have caused this Memorandum of Lease to be duly executed as of the day and year first above mentioned.

  
WITNESS

LESSOR: City of Portland, Maine

BY:   
Joseph E. Gray, Jr., City Manager

  
WITNESS

LESSEE: Cellco Partnership, d/b/a Verizon Wireless

BY:   
David R. Heverling  
Vice President, Network Northeast Area

12/2/05

LESSOR ACKNOWLEDGEMENT

STATE OF MAINE  
Cumberland, ss

1/23/ \_\_\_\_\_, 2006

Then personally appeared the above-named Joseph E. Gray, Jr., as City Manager of the City of Portland, Maine, and acknowledged the foregoing instrument to be his free act and deed in his capacity, and the free act and deed of the City of Portland, Maine.

Sonia T. Bean  
Notary Public/~~Attorney at Law~~

Print Name: Sonia T. Bean

My Commission Expires: \_\_\_\_\_

**Sonia T. Bean**  
Notary Public, Maine  
My Commission Expires January 10, 2010



COMMONWEALTH OF MASSACHUSETTS

COUNTY OF WORCESTER, SS

On this 21 day of Dec. 2005, before me came the above named David R. Heverling, to me personally known, who, being by me duly sworn, did acknowledge that he is authorized by the Executive Vice President and Chief Technical Officer of Cellco Partnership d/b/a Verizon Wireless, to execute the foregoing instrument and that said instrument was signed on behalf of said partnership and said David R. Heverling acknowledged said instrument to be his free act and deed.

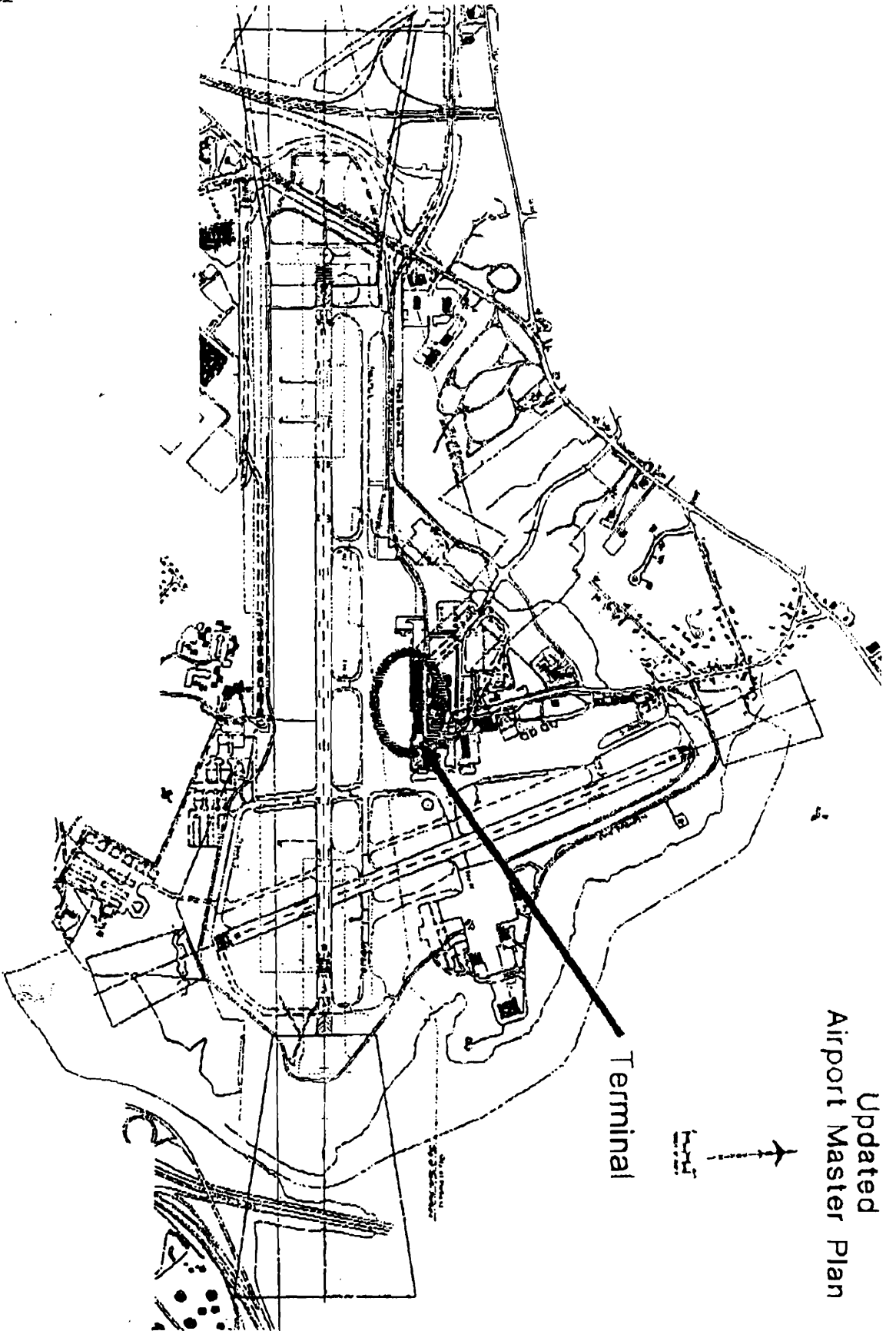
IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal at my office in said county and state of the day and year last above written.



Notary Public  
My Commission Expires: Nov. 13, 2009

Diane Gazzola  
Notary Public  
My Commission Expires  
November 13, 2009

Updated  
Airport Master Plan



SKETCH

TOTAL P. 02

PORTLAND INTERNATIONAL AIRPORT  
PORTLAND, MAINE



October 18, 2006  
05108

Marge Schmuckal  
Zoning Administrator  
389 Congress Street  
Portland, Maine 04101

**Site Plan Review Exemption**  
**Verizon Wireless, Jetport Rooftop Installation**

Dear Marge:


Attached please find our Application for Exemption from Site Plan Review for a rooftop installation at the Jetport for Verizon Wireless. The proposed Verizon Wireless equipment shelter to be installed is 12 feet by 30 feet giving it a total footprint of 360 square feet. The equipment shelter will be located near the existing rooftop mechanical room where the required utilities will be accessed. Also, the antennas associated with the facility will be located on the exterior walls of the mechanical room. The equipment shelter and antennas are proposed to be painted to match the existing exterior of the jetport building. This should minimize any visual impact due to the new structure.

This is an unmanned facility and access to the facility will only be required a maximum of three to four times monthly. Therefore, it is not anticipated that there will be a noticeable increase in traffic and no additional parking will be required. A Site Plan has been attached showing the proposed equipment shelter location.

Please contact me with any questions you have regarding this application. We look forward to speaking with you regarding this Application for Exemption from Site Plan Review.

Sincerely,

SEBAGO TECHNICS, INC.

  
Dabney Moar  
Design Engineer



DAM:dam/kn  
Encl.



# APPLICATION FOR EXEMPTION FROM SITE PLAN REVIEW

Applicant

Application Date

Applicant's Mailing Address

Project Name/Description

Consultant/Agent/Phone Number

Address of Proposed Site

CBL: 208 A00/002

Description of Proposed Development:

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

Applicant's Assessment (Yes, No, N/A)	Planning Office Use Only
	✓
	✓
	✓
	✓
	✓
	✓
	✓
	✓
	✓