

City of Portland, Maine - Building or Use Permit Application

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

Job No: 2011-10-2551-ALTCOMM	Date Applied: 10/26/2011	CBL: 429- I-001-001	
Location of Construction: 970 BAXTER BLVD/ 500 WASHINGTON AVE	Owner Name: MICHAEL K SCARKS	Owner Address: 38 PINERIDGE RD SACO, ME 04072	Phone:
Business Name:	Contractor Name: SAI Communications	Contractor Address: 22 Keewavoin Drive Salem, NH 03079	Phone: 603-531-9230
Lessee/Buyer's Name: New Cingular Wireless DBA ATT Mobility – Peter Cooke	Phone: 978-399-86	CLOSED	Zone: B-2
Past Use: Two buildings connected by upper walkway	Proposed Use: Same uses – rooftop wireless communications facility including antennas, shelter etc.		CEO District:
Proposed Project Description: Wireless Communications Facility		Fire Dept: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied <input type="checkbox"/> N/A Signature: <i>Capt. [Signature] 11/28/11</i>	Inspection: Use Group: <i>B/C</i> Type: <i>IB</i> <i>IBC 09</i> Signature: <i>[Signature]</i>
Pedestrian Activities District (P.A.D.)			
Permit Taken By: Lannie	Zoning Approval		

<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>	Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetlands <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input checked="" type="checkbox"/> Site Plan <i>Signed</i> <i>By [Signature] 10/28/11 (Attached)</i> <input type="checkbox"/> Maj <input type="checkbox"/> Min <input type="checkbox"/> MM Date: <i>11/18/11</i>	Zoning Appeal <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:	Historic Preservation <input checked="" type="checkbox"/> Not in Dist 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: <i>9</i>
	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

8/21/12 - See plans/letter dated 8/21/12 for
revisions on location of rooftop shelter JMB

10-17-12 GF - EXIT LIGHT NOT WORKING

- NEED PDF OF AS BUILT

- NEED PFD SIGN-OFF

- FOLLOW UP INSP. NEEDED - OK FOR FIRE ONLY

6-7-13 GF OK -

CORRECTED

OK - CLOSE

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND

BUILDING PERMIT

This is to certify that MICHAEL K SCARKS

Located At 970 BAXTER BLVD

Job ID: 2011-10-2551-ALTCOMM

CBL: 429- I-001-001

has permission to Install rooftop wirelss communications facility
provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statues of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of the buildings and structures, and of the application on file in the department.

Notification of inspection and written permission procured before this building or part thereof is lathed or otherwise closed-in. 48 HOUR NOTICE IS REQUIRED.

A final inspection must be completed by owner before this building or part thereof is occupied. If a certificate of occupancy is required, it must be

Fire Prevention Officer

Code Enforcement Officer / Plan Reviewer

THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY

PENALTY FOR REMOVING THIS CARD

SCANNED

BUILDING PERMIT INSPECTION PROCEDURES

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

or email: buildinginspections@portlandmaine.gov

With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the city of Portland Inspections Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

- **Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.**
- **Permits expire in 6 months. If the project is not started or ceases for 6 months.**
- **If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.**

Required inspections:

Close In Elec/Plmb/Frame prior to insulate or gyp

Final Inspection

The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OF CIRCUMSTANCES.

IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCUPIED.



PORTLAND MAINE

Strengthening a Remarkable City, Building a Community for Life • www.portlandmaine.gov

Director of Planning and Urban Development
Penny St. Louis

Job ID: 2011-10-2551-ALTCOMM

Located At: 970 BAXTER BLVD

CBL: 429- I-001-001

Conditions of Approval:

Building

1. Separate permits are required for any electrical, plumbing, sprinkler, fire alarm HVAC systems, heating appliances, commercial hood exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process.
2. Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approval prior to work.
3. All penetrations through rated assemblies must be protected by an approved firestop system installed in accordance with ASTM E 814 or UL 1479, per IBC 2009 Section 713.
4. A sign off from the designing engineer is required prior to closing in any ways and upon completion of the work.



General Building Permit Application

OCT 26 2011

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.

MAIL PERMIT

Location/Address of Construction: <u>970 BAXTER BOULEVARD / 500 WASHINGTON AVE</u>		
Total Square Footage of Proposed Structure/Area <u>240 (12x20)</u>	Square Footage of Lot	
Tax Assessor's Chart, Block & Lot Chart# Block# Lot# <u>429 100 7001</u> <u>429 100 1001</u>	Applicant * <u>must be owner, Lessee or Buyer</u> * Name <u>NEW CIRCULAR WIRELESS LLC</u> <u>LESSEE</u> Address City, State & Zip	Telephone: <u>PETER COORE</u> <u>978-399-8600</u> <u>POB 894</u> <u>WOLFEBORO NH 03894</u>
Lessee/DBA (If Applicable) <u>NEW CIRCULAR WIRELESS LLC</u> <u>DBA AT&T MOBILITY</u> <u>550 COCKSHUTE ROAD</u> <u>FRAMINGHAM MA 01701</u>	Owner (if different from Applicant) Name <u>MICHAEL SCARL</u> <u>NEPTUNE PROPERTIES LLC</u> Address <u>120 EXCHANGE ST</u> City, State & Zip <u>PORTLAND ME 04101</u>	Cost Of Work: \$ <u>50000.00</u> C of O Fee: \$ _____ Total Fee: \$ _____
Current legal use (i.e. single family) <u>OFFICE BUILDING</u> If vacant, what was the previous use? _____ Proposed Specific use: <u>WIRELESS COMMUNICATIONS FACILITY</u> Is property part of a subdivision? <u>NA</u> If yes, please name _____ Project description: <u>INSTALLATION OF ROOFTOP WIRELESS COMMUNICATIONS FACILITY</u> <u>INCLUDING ANTENNAS, SHELTER AND ASSOCIATED CABLING AND UTILITIES</u> <u>PER ATTACHED PLANS</u>		
Contractor's name: <u>SAT COMMUNICATIONS</u> Address: <u>22 KEEWAYDIN DRIVE</u> City, State & Zip <u>SALEM NH 03079</u> Telephone: <u>603-531-9230</u> Who should we contact when the permit is ready: <u>PETER COORE</u> Telephone: <u>978-399-8600</u> Mailing address: <u>ABOVE</u>		

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

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

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

Signature: [Signature] Date: 10/25/11

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

Marge Schmuckal - AT&T Mobility BP application - 500 Washington/970 Baxter Blvd

From: Peter Cooke <pcooke@wellmanassociates.net>
To: <mes@portlandmaine.gov>
Date: 11/15/2011 10:38 AM
Subject: AT&T Mobility BP application - 500 Washington/970 Baxter Blvd
Attachments: 500 washington site plan Model (1).pdf

Marge

Please find the attached site plan provided at the time of construction of the portion of this property now known as 970 Baxter Boulevard. Since all these properties are owned by 1 individual, they have not broken out individual property lines.

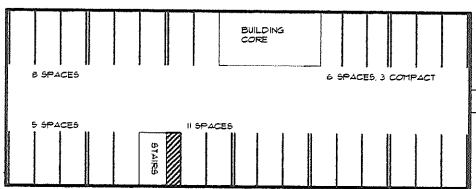
Perhaps it would be better if we had applied only under the 500 Washington Street address as it appears the city's tracking of this project only lists it under that one address.

Let me know if this provides the information you are looking for and we will get a full size copy to you if needed to amend the filing.

Thanks

--

Peter Cooke
978.399.8600 | Mobile
888.371.2957 | Fax



INTERNAL PARKING DETAIL
SCALE: 1"=20'

PARKING INFORMATION		
STANDARDS	REQUIRED	PROVIDED
RESTAURANT	18 SPACES	0 SPACES
RETAIL	74 SPACES	18 SPACES
EX. OFFICES	25 SPACES	25 SPACES
APARTMENT	10 SPACES	10 SPACES
NEIGHBOURHOODS	52 SPACES	52 SPACES
TOTAL	151 SPACES	143 SPACES

CONNECT NEW CPM TO EXISTING STORM DRAIN PER CITY STANDARDS

50' 1" OF 50 10" P.V.C. SDR 35, S+0.0057'

15' 1" DRIFLINE OF TREE

CL-GRT SEPARATOR DOWNSTREAM DEFENDER 6" DIA. OR EQUAL

CB #1, RIM 55.7 10" IN x 3.4 15" OUT x 9.3 6" IN x 3.4

51' OF 50 10" P.V.C. SDR 35, S+0.0217'

SILT FENCE

6" ROOF DRAIN

INSTALL 15' 1" OF 50 10" P.V.C. SDR 35, SLOPE AS NEEDED TO CONNECT TO EXIST. SPM

VERTICAL GRANITE CURB (TYP.)

15' 1" OF 50 10" P.V.C. SDR 35, S+0.0107'

CB #2, RIM 55.7 10" IN x 3.4 15" OUT x 9.3

RESET SPM FRAME AND COVER TO RIM EL 55.4

INSTALL NEW TRANSFORMER PER CITY STANDARDS

EXIST. INLET TO REMAIN

LEGEND	
EXISTING	PROPOSED
--- PROPERTY LINE	--- PROPERTY LINES
--- ADJOINING PROPERTY	--- BUILDING METRICK
--- EDGE OF PAVEMENT	--- EDGE OF PAVEMENT
--- CONTOUR BUILDINGS	--- NEW PAVEMENT
--- CURB	--- CURB
--- SOILS BOUNDARY	--- CL --- CLEARINGS L&PT
--- GAS LINE	--- OHE --- OVERHEAD ELECTRIC LINE
--- OHE --- OVERHEAD ELECTRIC LINE	--- OHT --- OVERHEAD TELEPHONE LINE
--- OHT --- OVERHEAD TELEPHONE LINE	--- S --- SANITARY SEWER
--- S --- SANITARY SEWER	--- SD --- STORM DRAIN
--- SD --- STORM DRAIN	--- UGE --- UNDERGROUND ELECTRIC LINE
--- UGE --- UNDERGROUND ELECTRIC LINE	--- UGT --- UNDERGROUND TELEPHONE LINE
--- UGT --- UNDERGROUND TELEPHONE LINE	--- F --- FOUNDATION DRAIN
--- WATER LINE	--- C --- CENTERLINE
--- SPM --- SPM	--- SPT --- SPOT GRADE
--- CATCH BASIN	--- CB --- CATCH BASIN
--- UTILITY POLE	--- DM --- DRAIN MANHOLE
--- SIGN	--- TM --- TELEPHONE MANHOLE
--- TRIP/WEEL LINE	--- EM --- ELECTRIC MANHOLE
--- BENCH-MARK	--- BM --- BOUND TO BE SET
--- BOUND FOUND	--- BPF --- BOUND TO BE SET
--- IRON PIPE FOUND	--- IPF --- IRON PIPE FOUND
--- IRON PIPE SET	--- IPS --- IRON PIPE SET
--- SURVEY STATION	--- SS --- SURVEY STATION
--- HYDRANT	--- H --- HYDRANT
--- GATE VALVE	--- GV --- GATE VALVE
--- WATER SHUT OFF	--- WSO --- WATER SHUT OFF
--- LIGHT POLE	--- LP --- LIGHT POLE
--- BALL MOUNTED LIGHT	--- BML --- BALL MOUNTED LIGHT
--- CUPPOLE	--- CP --- CUPPOLE
--- ZONING BOUNDARY	--- ZB --- ZONING BOUNDARY
	--- SURFACE DRAINAGE
	--- SILT FENCE
	--- HAYMALE PROTECTION
	--- SNOW STORAGE AREA
	--- EASEMENT

3	4/28/00	REV'D PARKING + GRADING
2	4/10/00	REV'D GRADING, STORM DRAINS M.D.T. BOUNDARY
1	4/3/00	REV'D M.D.T. BOUNDARY
REV.	DATE	DESCRIPTION
NEPTUNE PROPERTIES, INC. 120 EXCHANGE ST., PORTLAND, ME 500 WASHINGTON AVE. EXPANSION PORTLAND, ME		
CONSTANCE DICKENS, INC. FALMOUTH, MAINE		
SITE PLAN		
SCALE: 1"=20'	DRN BY: JULL3	C2
DATE: MARCH 27, 2000	DESIG BY: MFB	
PROJECT: 0011185E	CHK BY: MFB	

CAD FILE: 0011185E FILE SCALE: 1"=20' PLOT DATE: 03/27/00

on all one "lot" (diff parcels) 11/15/11

Assessor's Office | 389 Congress Street | Portland, Maine 04101 | Room 115 | (207) 874-8486

City Home Departments City Council E-Services Calendar Jobs

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:

Services

Applications

Doing Business

Maps

Tax Relief

Tax Roll

Q & A

browse city services a-z

browse facts and links a-z

CBL 429 I007001
Land Use Type OFFICE & BUSINESS SERVICE
Property Location 500 WASHINGTON AVE
Owner Information SCARKS MICHAEL
 120 EXCHANGE ST
 PORTLAND ME 04101
Book and Page 7559/71
Legal Description 429-1-7
 BATES ST 6-16
 22534 SF
Acres 0.517

Current Assessed Valuation:

TAX ACCT NO.	43726	OWNER OF RECORD AS OF APRIL 2011
		SCARKS MICHAEL
LAND VALUE	\$177,100.00	120 EXCHANGE ST
BUILDING VALUE	\$1,215,100.00	PORTLAND ME 04101
NET TAXABLE - REAL ESTATE	\$1,392,200.00	
TAX AMOUNT	\$25,449.42	

Any information concerning tax payments should be directed to the Treasury office at 874-8490 or [e-mailed](#).



Best viewed at 800x600, with Internet Explorer

Building Information:

Card 1 of 1
Year Built 1987
Style/Structure Type RETAIL - MULTI OCCUPANCY
Units 1
Building Num/Name 1 - 500 WASHINGTON AVE
Square Feet 14742

[View Sketch](#)

[View Map](#)

[View Picture](#)



Exterior/Interior Information:

Card 1
Levels 01/01
Size 4902
Use RETAIL STORE
Height 10
Walls BRK/CONC BLK
Heating HOT AIR
A/C CENTRAL

Card 1
Levels 02/03
Size 4920
Use OFFICE BUILDING
Height 10
Walls BRK/CONC BLK
Heating HOT AIR
A/C CENTRAL

Other Features:

Card 1
Structure CANOPY - ROOF/SLAB
Size 1140X6

Card 1
Structure ENCLOSED ENTRY
Size 6X22

Card 1
Structure SPRINKLER - WET
Size 14646X1

Assessor's Office | 389 Congress Street | Portland, Maine 04101 | Room 115 | (207) 874-8486

City Home Departments City Council E-Services Calendar Jobs

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Current Owner Information:

Services

Applications

Doing Business

Maps

Tax Relief

Tax Roll

Q & A

CBL 429 I001001
Land Use Type OFFICE & BUSINESS SERVICE
Property Location 970 BAXTER BLVD
Owner Information SCARKS MICHAEL K
 38 PINERIDGE RD
 SACO ME 04072
Book and Page 15750/066
Legal Description 429-I-1
 BAXTER BLVD 970
 BATES ST 18-22
 54587 SF
Acres 1.253

Current Assessed Valuation:

TAX ACCT NO. 43716 **OWNER OF RECORD AS OF APRIL 2011**
 SCARKS MICHAEL K
LAND VALUE \$407,900.00 38 PINERIDGE RD
BUILDING VALUE \$2,068,900.00 SACO ME 04072
NET TAXABLE - REAL ESTATE \$2,476,800.00
TAX AMOUNT \$45,275.90

browse city services a-z

browse facts and links a-z

Any information concerning tax payments should be directed to the Treasury office at 874-8490 or [e-mailed](#).



Best viewed at 800x600, with Internet Explorer

Building Information:

Card 1 of 1
Year Built 2000
Style/Structure Type OFFICE BUILDING - LOW-RISE
Units 1
Square Feet 30807

[View Sketch](#)

[View Map](#)

[View Picture](#)



Exterior/Interior Information:

Card 1
Levels 01/01
Size 10269
Use PARKING GARAGE
Height 10
Heating NONE
A/C NONE

Card 1
Levels 02/03
Size 10269
Use OFFICE BUILDING
Height 10
Walls GLASS/MASNRY
Heating HW/STEAM
A/C CENTRAL

Other Features:

Card 1
Structure SPRINKLER - WET
Size 30807X1

Card 1
Structure AERIAL WALK
Size 30X8

Card 1
Structure ELEVATOR - ELEC. PASSENGER
Size 2500X100

Outbuilding/Vand Improvements:



Certificate of Design

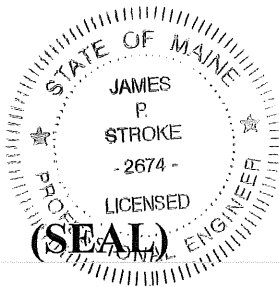
Date: 10-24-11

From: JAMES P. STROKE

These plans and / or specifications covering construction work on:

TURNING MILL CONSULTANTS, INC DRAWINGS, STRUCTURAL DESIGN INFORMATION SHOWN ON
DRAWINGS G-002, A-101, A301, A501, B101 & S 102 FOR AT&T ROOFTOP EQUIPMENT SUPPORTS
PORTLAND, ME

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



Signature: *James P. Stroke*

Title: ENGINEERING MANAGER

Firm: TURNING MILL CONSULTANTS, INC

Address: 68 TUPPER RD SUITE #3

SANDWICH, MA 02563

Phone: 508-888-4383

For more information or to download this form and other permit applications visit the Inspections Division on our website at www.portlandmaine.gov



Certificate of Design Application

From Designer: JAMES P. STROKE
 Date: 10-24-11
 Job Name: AT&T ROOFTOP EQUIPMENT ROOM PORTLAND, ME
 Address of Construction: 500 WASHINGTON AVE, PORTLAND, ME

2003 International Building Code

Construction project was designed to the building code criteria listed below:

Building Code & Year 2003 I. B. C. Use Group Classification (s) U (EQUIP ROOM)
 Type of Construction 1B (EQUIP. ROOM)
 Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2003 IRC N
 Is the Structure mixed use? N If yes, separated or non separated or non separated (section 302.3) _____
 Supervisory alarm System? Y Geotechnical/Soils report required? (See Section 1802.2) _____

Structural Design Calculations

_____ Submitted for all structural members (106.1 – 106.11)

Design Loads on Construction Documents (1603)

Uniformly distributed floor live loads (7603.11, 1807)

Floor Area Use	Loads Shown
_____	_____
_____	_____
_____	_____
_____	_____

Wind loads (1603.1.4, 1609)

_____ Design option utilized (1609.1.1, 1609.6)
90 MPH Basic wind speed (1809.3)
 _____ Building category and wind importance Factor, I_p (table 1604.5, 1609.5)
B Wind exposure category (1609.4)
 _____ Internal pressure coefficient (ASCE 7)
 _____ Component and cladding pressures (1609.1.1, 1609.6.2.2)
 _____ Main force wind pressures (7603.1.1, 1609.6.2.1)

Earth design data (1603.1.5, 1614-1623)

_____ Design option utilized (1614.1)
 _____ Seismic use group ("Category")
 _____ Spectral response coefficients, S_D & S_{D1} (1615.1)
 _____ Site class (1615.1.5)

_____ Live load reduction
 _____ Roof live loads (1603.1.2, 1607.11)
60 PSF Roof snow loads (1603.7.3, 1608)
 _____ Ground snow load, P_g (1608.2)
 _____ If $P_g > 10$ psf, flat-roof snow load P_f
 _____ If $P_g > 10$ psf, snow exposure factor, C_e
 _____ If $P_g > 10$ psf, snow load importance factor, I_s
 _____ Roof thermal factor, C_t (1608.4)
 _____ Sloped roof snowload, P_s (1608.4)
 _____ Seismic design category (1616.3)
 _____ Basic seismic force resisting system (1617.6.2)
 _____ Response modification coefficient, R , and
 _____ deflection amplification factor C_d (1617.6.2)
 _____ Analysis procedure (1616.6, 1617.5)
 _____ Design base shear (1617.4, 1617.5.1)

Flood loads (1803.1.6, 1612)

X Flood Hazard area (1612.3)
39' Elevation of structure

Other loads *

_____ Concentrated loads (1607.4)
 _____ Partition loads (1607.5)
 _____ Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404)

*** EQUIPMENT LOADS AS SHOWN ON DRAWING SET.**

Applicant:

New Cingular Wireless LLC
Dba AT&T Mobility
550 Cochituate Road
Framingham, MA 01701
Contact: Peter Cooke 978-399-8600

Project Engineer:

Turning Mill Consultants, Inc.
68 Tupper Road
Sandwich, MA 02563
ATT: Steve Shurtleff 508-888-4384

Use Classification:

IBC: U
NFPA 220/2009: Type II - 222

SF of equipment shelter - 240 SF



Administrative Authorization Application

Portland, Maine

Planning and Urban Development Department, Planning Division

PROJECT NAME: ATT MOBILITY / BARKER BLVD
500 WASHINGTON AVE
PROJECT ADDRESS: 970 BARKER BLVD CHART/BLOCK/LOT: 429 100 7001
429 100 1001
APPLICATION FEE: _____ (\$50.00)

PROJECT DESCRIPTION: (Please Attach Sketch/Plan of the Proposal/Development)

INSTALLATION OF ROOFTOP WIRELESS COMMUNICATIONS FACILITY (SHELTER, CABLE AND ANTENNAS) PER ATTACHED PLANS
CONTACT INFORMATION:

OWNER/APPLICANT *New England Wireless LLC*
Name: ATT Mobility
Address: 550 Cochituate Rd
Frammingham MA
Work #: 978-399-8600
Cell #: 978-399-8600
Fax #: 888-371-2957
Home #: _____
E-mail: pcooke@wellmanassociates.net

CONSULTANT/AGENT
Name: PETER COOKE
Address: POB 126 Orange MA
c/o Wellman Associates
Work #: 978-399-8600
Cell #: 978-399-8600
Fax #: 888-371-2957
Home #: _____
E-mail: pcooke@wellmanassociates.net

Criteria for an Administrative Authorizations:
(see section 14-523(4) on pg. 2 of this appl.)

Applicant's Assessment Planning Division
Y(yes), N(no), N/A Y(yes), N(no), N/A

a) Is the proposal within existing structures?	<u>Y</u>	_____
b) Are there any new buildings, additions, or demolitions?	<u>Y</u>	_____
c) Is the footprint increase less than 500 sq. ft.?	<u>Y</u>	_____
d) Are there any new curb cuts, driveways or parking areas?	<u>N</u>	_____
e) Are the curbs and sidewalks in sound condition?	<u>Y</u>	_____
f) Do the curbs and sidewalks comply with ADA?	<u>N/A</u>	_____
g) Is there any additional parking?	<u>N</u>	_____
h) Is there an increase in traffic?	<u>N</u>	_____
i) Are there any known stormwater problems?	<u>N</u>	_____
j) Does sufficient property screening exist?	<u>Y</u>	_____
k) Are there adequate utilities?	<u>Y</u>	_____
l) Are there any zoning violations?	<u>N</u>	_____
m) Is an emergency generator located to minimize noise?	<u>N/A</u>	_____
n) Are there any noise, vibration, glare, fumes or other impacts?	<u>N</u>	_____

Signature of Applicant: [Signature] *gent for NEWELL*
for ATT Mobility Date: 10/13/11

Planning Division Use Only

Authorization Granted ____ Partial Exemption ____ Exemption Denied ____

Standard Condition of Approval: The applicant shall obtain all required City Permits, including building permits from the Inspection Division (Room 315, City Hall (874-8703)) prior to the start of any construction.

IMPORTANT NOTICE TO APPLICANT: The granting of an Administrative Authorization to exempt a development from site plan review does not exempt this proposal from other approvals or permits, nor is it an authorization for construction. You should first check with the Building Inspections Office, Room 315, City Hall (207)874-8703, to determine what other City permits, such as a building permit, will be required.

**PROVISION OF PORTLAND CITY CODE
14-523 (SITE PLAN ORDINANCE)
RE: Administrative Authorization**

Sec. 14-523 (b). Applicability

No person shall undertake any development identified in Section 14-523 without obtaining a site plan improvement permit under this article. (c) Administrative Authorization. Administrative Authorization means the Planning Authority may grant administrative authorization to exempt a development proposal from complete or partial site plan review that meets the standards below, as demonstrated by the applicant.

1. The proposed development will be located within existing structures, and there will be no new buildings, demolitions, or building additions other than those permitted by subsection b of this section;
2. Any building addition shall have a new building footprint expansion of less than five hundred (500) square feet;
3. The proposed site plan does not add any new curb cuts, driveways, or parking areas; the existing site has no more than one (1) curb cut and will not disrupt the circulation flows and parking on-site; and there will be no drive-through services provided;
4. The curbs and sidewalks adjacent to the lot are complete and in sound condition, as determined by the public works authority, with granite curb with at least four (4) inch reveal, and sidewalks are in good repair with uniform material and level surface and meet accessibility requirements of the Americans with Disabilities Act;
5. The use does not require additional or reduce existing parking, either on or off the site, and the project does not significantly increase traffic generation;
6. There are no known stormwater impacts from the proposed use or any existing deficient conditions of stormwater management on the site;
7. There are no evident deficiencies in existing screening from adjoining properties; and
8. Existing utility connections are adequate to serve the proposed development and there will be no disturbance to or improvements within the public right-of-way.
9. There are no current zoning violations;
10. Any emergency generators are to be located to minimize noise impacts to adjoining properties and documentation that routine testing of the generators occur on weekdays between the hours of 9 a.m. to 5 p.m. Documentation pertaining to the noise impacts of the emergency generator shall be submitted; and
11. There is no anticipated noise, vibration, glare, fumes or other foreseeable impacts associated with the project.

- a. **Filing the Application.** An applicant seeking an administrative authorization under this subsection shall submit an administrative authorization application for review, detailing the site plan with dimensions of proposed improvements and distances from all property lines, and stating that the proposal meets all of the provisions in standards 1-11 of Section 14-423 (b)1. **The application must be accompanied by an application fee of \$50.**
- b. **Review.** Upon receipt of such a complete application, the Planning Authority will process it and render a written decision of approval, approval with conditions or denial, with all associated findings.
- c. **Decision.** If a full administrative authorization is granted, the application shall be approved without further review under this article, and no performance guarantee shall be required. In the event that the Planning Authority determines that standards a and b of Section 14-523 (b) (1) and at least four (4) of the remaining standards have been met, the Planning Authority shall review the site plan according to all applicable review standards of Section 14-526 that are affected by the standards in this subsection that have not been met. If an exemption or partial exemption from site plan review is not granted, the applicant must submit a site plan application that will undergo a full review by the Planning Board or Planning Authority according to the standards of Section 14-526.

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

Applicant's Assessment
Y(yes), N(no), N/A

Planning Division
Use Only

a) Is the proposal within existing structures?	Yes	No
b) Are there any new buildings, additions, or demolitions?	Yes	Roof top antennas and rooftop wireless facility
c) Is the footprint increase less than 500 sq. ft.?	Yes	yes
d) Are there any new curb cuts, driveways or parking areas?	No	no
e) Are the curbs and sidewalks in sound condition?	Yes	yes
f) Do the curbs and sidewalks comply with ADA?	n/a	yes
g) Is there any additional parking?	No	no
h) Is there an increase in traffic?	No	no
i) Are there any known stormwater problems?	No	no
j) Does sufficient property screening exist?	Yes	yes
k) Are there adequate utilities?	Yes	yes
l) Are there any zoning violations?	No	no
m) Is an emergency generator located to minimize noise?	n/a	n/a
n) Are there any noise, vibration, glare, fumes or other impacts?	no	no

The Administrative Authorization for the rooftop wireless communications facility at 970 Baxter Blvd (500 Washington Ave.) was approved by Barbara Barhydt on October 24, 2011 with the following Standard Condition of Approval listed below:

1. **Standard Condition of Approval:** The applicant shall obtain all required City Permits, including building permits from the Inspection Division (874-8703) and any other permits required from the Department of Public Services (874-8801) prior to the start of any construction.

Barbara Barhydt
Development Review Services Manager

October 24, 2011



CITY OF PORTLAND, MAINE

Department of Building Inspections

Original Receipt

Oct 6 2011

Received from Sai

Location of Work 910 Baxter Blvd

Cost of Construction \$ _____ Building Fee: _____

Permit Fee \$ _____ Site Fee: _____

Certificate of Occupancy Fee: _____

Total: _____

Building (IL) Plumbing (I5) _____ Electrical (I2) _____ Site Plan (U2) _____

Other _____

CBL: 490. I 000

Check #: 39227 Total Collected \$ 500.00

**No work is to be started until permit issued.
Please keep original receipt for your records.**

Taken by: Hayle

WHITE - Applicant's Copy
YELLOW - Office Copy
PINK - Permit Copy



TURNING MILL CONSULTANTS, INC.
DEVELOPERS, ENGINEERS AND CONSTRUCTION MANAGERS

August 17, 2012

Ms. Gin Vilante
SAI Communications, Inc.
22 Keewaydin Drive
Salem, NH 03079

PDP

RE: Rooftop Shelter/Antenna Mount Structural Review-Revised
Site Name: Portland-Remax
Site Number: ME2978
Address: 500 Washington Ave., Portland, ME

429-I-001

Dear Ms. Vilante:

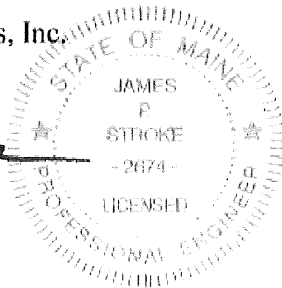
Per your request Turning Mill Consultants, Inc. has performed a structural review of the existing building, at the above referenced AT&T site for the redesign: rotating the shelter 90 degrees and adjusting the post down location for one of the structural stubs. Our review included the installation of a rooftop shelter supported on a steel frame with antennas (6) mounted to the shelter and antennas (3) mounted on a ballasted sled mount per the revised drawing: AT&T Mobility, Site Number: ME2978, Site Name: Portland Baxter Blvd., Revision 5, Dated: 8/16/12.

Based on Turning Mill Consultants, Inc. structural review AT&T's proposed loading for the rooftop shelter supported on a steel frame with antennas (6) mounted to the shelter and antennas (3) mounted on a ballasted sled mount is within allowable design limits. Therefore, the proposed shelter and antennas can be installed without compromising the integrity of the building structure and the proposed loading will have minimal impact on the existing building framing. Attached are the original calculations along with the revised calculations, dated 8/16/12.

If you should have any questions regarding this analysis please do not hesitate to call us.

Sincerely,
Turning Mill Consultants, Inc.

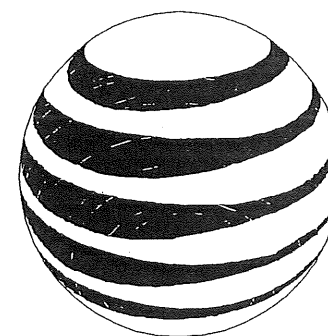
James P. Stroke, P.E.
Engineering Manager



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City of Portland Maine

PROJECT INFORMATION

SCOPE OF WORK: UNMANNED TELECOMMUNICATIONS FACILITY MODIFICATIONS
 SITE ADDRESS: 500 WASHINGTON AVE
 PORTLAND, ME 04103
 LATITUDE: 43.6794° N 43° 40' 45.96" N
 LONGITUDE: 70.2578° W 70° 15' 28.08" W
 JURISDICTION: NATIONAL, STATE & LOCAL CODES OR ORDINANCES
 CURRENT USE: TELECOMMUNICATIONS FACILITY
 PROPOSED USE: TELECOMMUNICATIONS FACILITY
 NOC#: 866-915-5600



at&t
 Mobility

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429-I-001

DRAWING INDEX

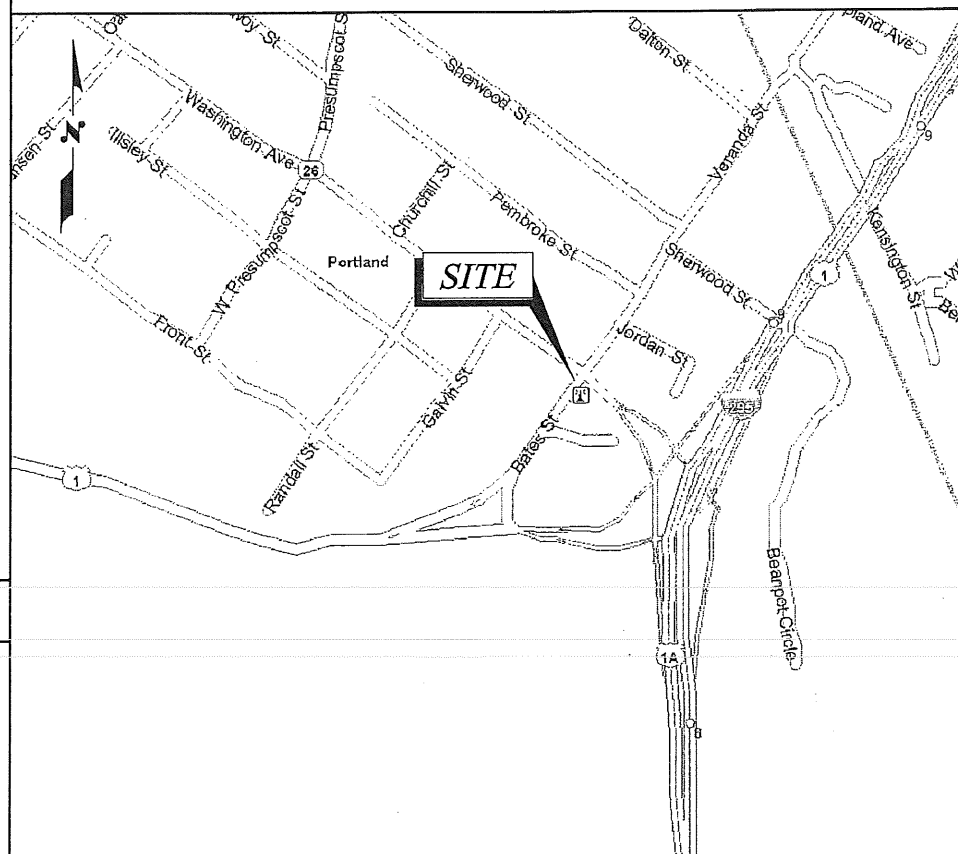
REV

G-001	TITLE SHEET	5
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A-201	EQUIPMENT SHELTER - EXTERIOR ELEVATIONS	5
A-202	EQUIPMENT SHELTER - INTERIOR ELEVATIONS & DETAILS	4
A-301	EQUIPMENT SHELTER SECTION AND DETAILS	4
A-501	CONSTRUCTION DETAILS - SHEET 1 OF 2	4
A-502	CONSTRUCTION DETAILS - SHEET 2 OF 2	4
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S-501	EQUIPMENT SHELTER - FRAMING DETAILS - SHEET 1 OF 2	5
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E-601	ELECTRICAL ONE-LINE DIAGRAM, NOTES AND SCHEDULES	4
E-602	ELECTRICAL SCHEMATICS AND DIAGRAMS	4

SITE NUMBER: ME2978

SITE NAME: PORTLAND BAXTER BLVD

VICINITY MAP



APPLICABLE BUILDING CODES AND STANDARDS

CONTRACTOR'S WORK SHALL COMPLY WITH PROJECT STANDARD NOTES, SYMBOLS AND DETAILS (SEE DRAWING INDEX FOR STANDARD NOTES AND DETAILS INCLUDED WITH TYPICAL DRAWING PACKAGE). CONTRACTOR WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

BUILDING CODE:
 MAINE BUILDING CODE (IBC 2009).

ELECTRICAL CODE:
 NATIONAL ELECTRICAL CODE (NEC 2008)
 MAINE ELECTRICAL CODE (NEC 2002 NFPA #70)

CONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
 AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
 AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION.
 TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES.
 (TIA) 607. COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS.

INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERING (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM.
 IEEE 1100 (1999), RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT.

TELCORDIA, GR-1503 COAXIAL CABLE CONNECTIONS

ANSI T1.311, FOR TELECOM - DC POWER SYSTEMS - TELECOM, ENVIRONMENTAL PROTECTION

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

GENERAL NOTES

- THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF AT&T. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.
- THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.
- CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE AT&T REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

DIRECTIONS: FROM HQ DEPART DEPART 22 KEEWAYDIN DR, SALEM, NH 03079 ON KEEWAYDIN DR, TURN RIGHT ONTO PELHAM RD, THEN IMMEDIATELY TURN LEFT ONTO RAMP, MERGE ONTO I-93 [ALAN B SHEPARD JR HWY], ENTERING MASSACHUSETTS, AT EXIT 48, TURN RIGHT ONTO RAMP, AT EXIT 1A, TAKE RAMP (LEFT) ONTO SR-213, AT EXIT 5A, TAKE RAMP (LEFT) ONTO I-495, MERGE ONTO I-95, ENTERING NEW HAMPSHIRE, *TOLL ROAD* STAY ON I-95 [BLUE STAR MEMORIAL HWY], AT EXIT 3, STAY ON I-95 [BLUE STAR MEMORIAL HWY], ENTERING MAINE, *TOLL ROAD* STAY ON I-95 [GOLD STAR MEMORIAL HWY], AT EXIT 44, TAKE RAMP (RIGHT) ONTO I-295, AT EXIT 8, TAKE RAMP (RIGHT) ONTO SR-26 [WASHINGTON AVE], ARRIVE 500 WASHINGTON AVE, PORTLAND, ME 04103.

CONTACT & UTILITY INFORMATION

CONTACT	CONTACT	COMPANY	PHONE NO.
ENGINEERING:	STEPHEN SHURTFLEFF	TURNING MILL CONSULTANTS, INC.	(508) 888-4383
SAC:	GIN VILANTE	WELLMAN ASSOCIATES, INC.	(978) 846-4954
CONSTRUCTION:	TOM ALLAIN	SAI COMMUNICATIONS	(603) 305-5641
UTILITIES			
POWER:	CENTRAL MAINE POWER CO. (800) 564-3181		
TELCO:	AT&T (207) 253-5062		



22 KEEWAYDIN DRIVE
 SALEM, NH 03079

SITE NUMBER: ME2978
SITE NAME: PORTLAND - BAXTER BLVD

500 WASHINGTON AVE
 PORTLAND, ME 04103
 CUMBERLAND COUNTY



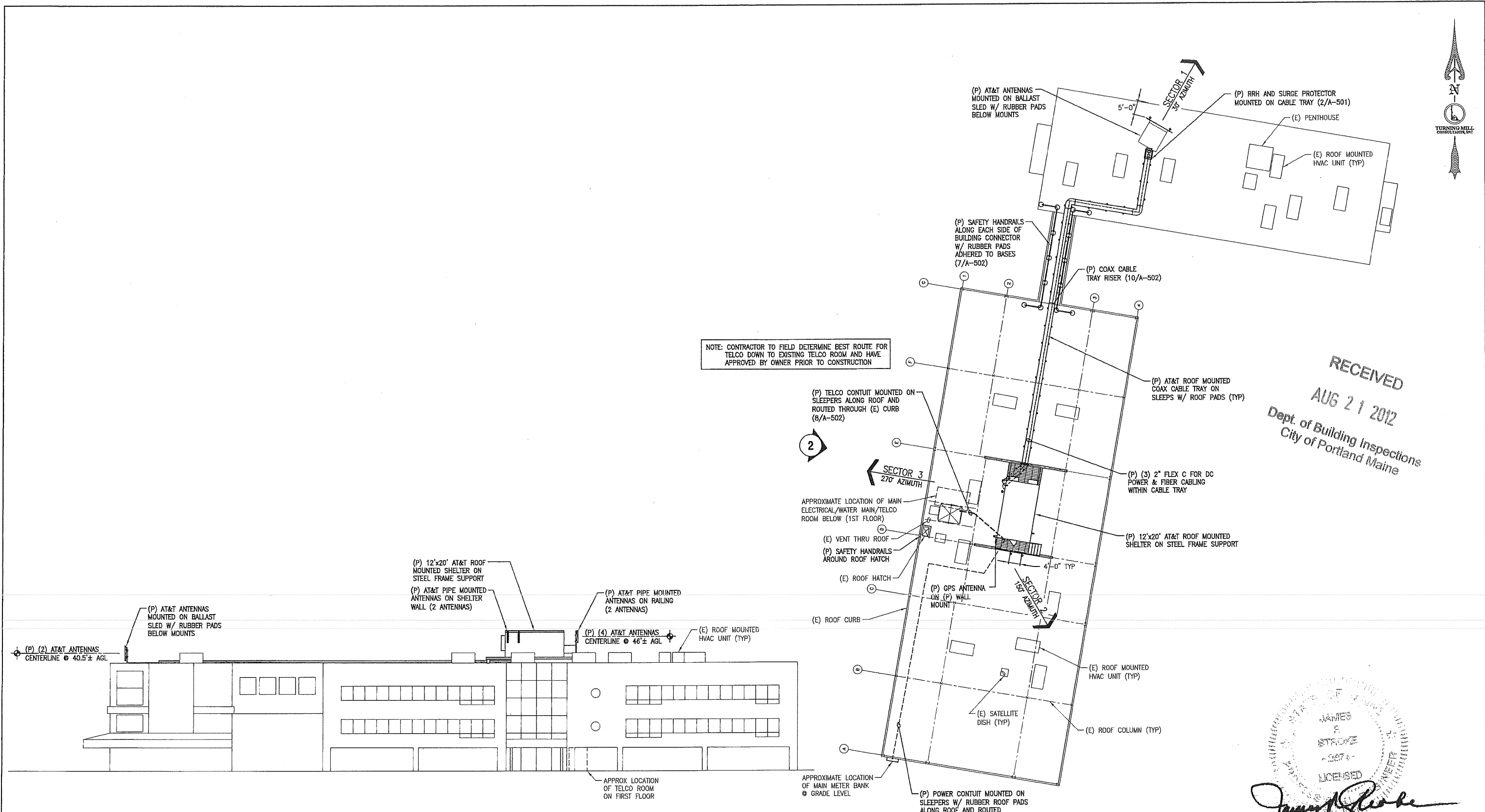
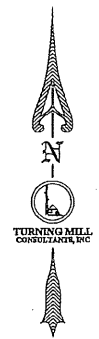
NO.	DATE	REVISIONS	BY	CHK	APP'D
5	08/16/12	ADDENDUM: A-101/A-201/S-101/S-501	TDC	SRS	JPS
4	04/17/12	REISSUED FOR CONSTRUCTION	TDC	SRS	JPS
3	10/10/11	REISSUED FOR CONSTRUCTION	TDC	SRS	JPS
2	10/05/11	REISSUED FOR REVIEW	TDC	SRS	JPS
1	09/19/11	CHG SHELTER DESIGN	TDC	SRS	JPS

SCALE: NONE DESIGNED BY: MJS DRAWN BY: TDC

AT&T MOBILITY
 FRAMINGHAM, MA 01701

TITLE SHEET

JOB NUMBER	DRAWING NUMBER	REV
SAI 11.43	G-001	5



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Professional Engineer Seal for James G. Glabe, License No. 10273.

2 WEST ELEVATION
 A-101 SCALE: 1/16" = 1'-0" 0' 4' 8' 16' 32'

1 ROOF PLAN
 A-101 SCALE: 1/16" = 1'-0" 0' 4' 8' 16' 32'

TURNING MILL CONSULTANTS, INC.
 DEVELOPERS, ENGINEERS AND CONSTRUCTION MANAGERS
 68 TUPPER ROAD, UNIT 3
 PO BOX 1189, SANDWICH, MA 01963
 TEL: (508) 898-4385 - FAX: (508) 898-4246
 www.turningmillconsultants.com



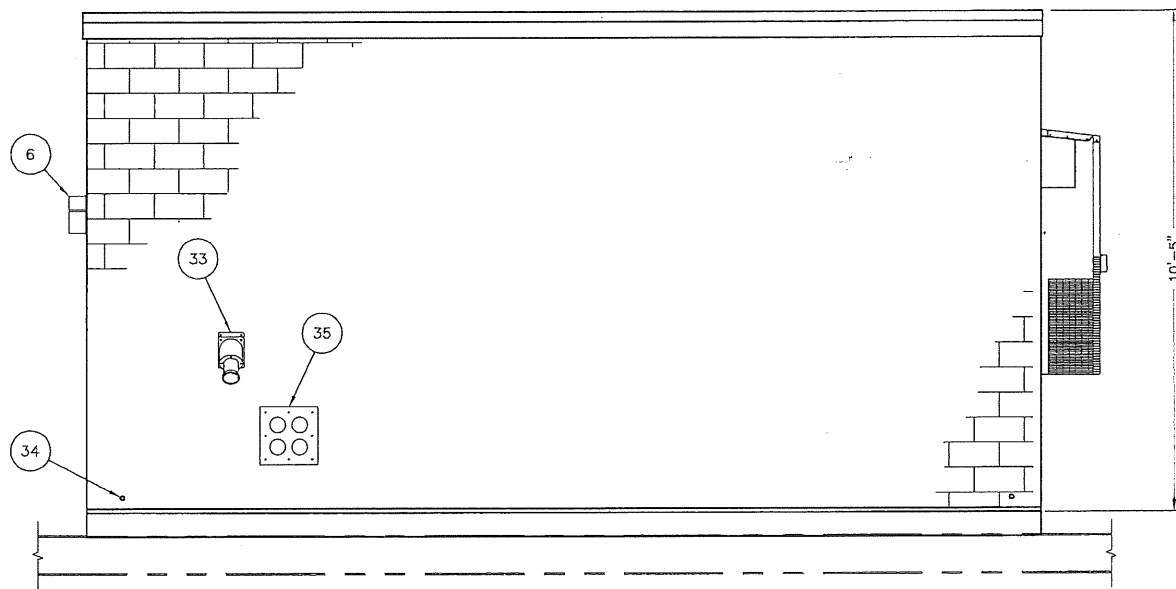
22 KEEWAYDIN DRIVE
 SALEM, NH 03079

SITE NUMBER: ME2978
 SITE NAME: PORTLAND - BAXTER BLVD
 500 WASHINGTON AVE
 PORTLAND, ME 04103
 CUMBERLAND COUNTY

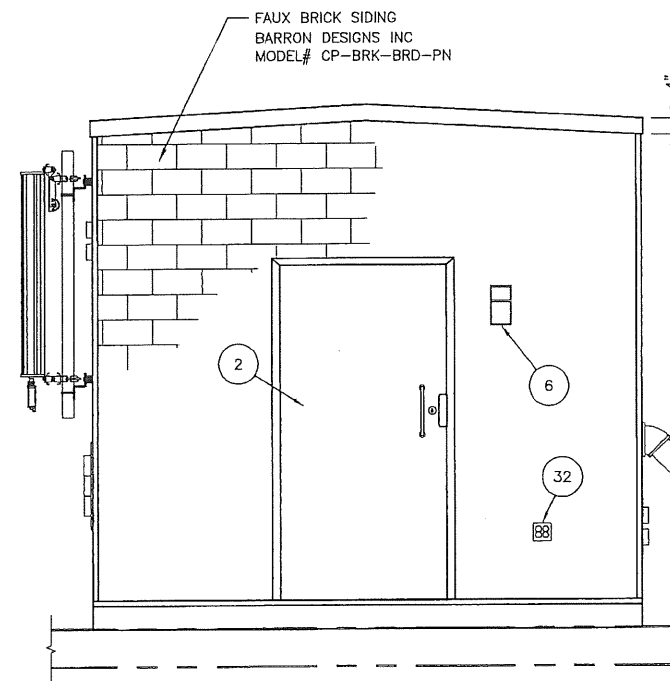
at&t Mobility
 550 COCHITUATE ROAD
 SUITES 13 & 14
 FRAMINGHAM, MA 01701

5	08/16/12	ADDENDUM: A-101/A-201/S-101/S-501	TDC	SRS	JPS
4	04/17/12	REISSUED FOR CONSTRUCTION	TDC	SRS	JPS
3	10/10/11	REISSUED FOR CONSTRUCTION	TDC	SRS	JPS
2	10/05/11	REISSUED FOR REVIEW	TDC	SRS	JPS
1	09/19/11	CHG SHELTER DESIGN	TDC	SRS	JPS
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS INDICATED		DESIGNED BY: MJS	DRAWN BY: TDC		

AT&T MOBILITY FRAMINGHAM, MA 01701		
ROOF PLAN AND ELEVATION		
JOB NUMBER	DRAWING NUMBER	REV
SAI 11.43	A-101	5



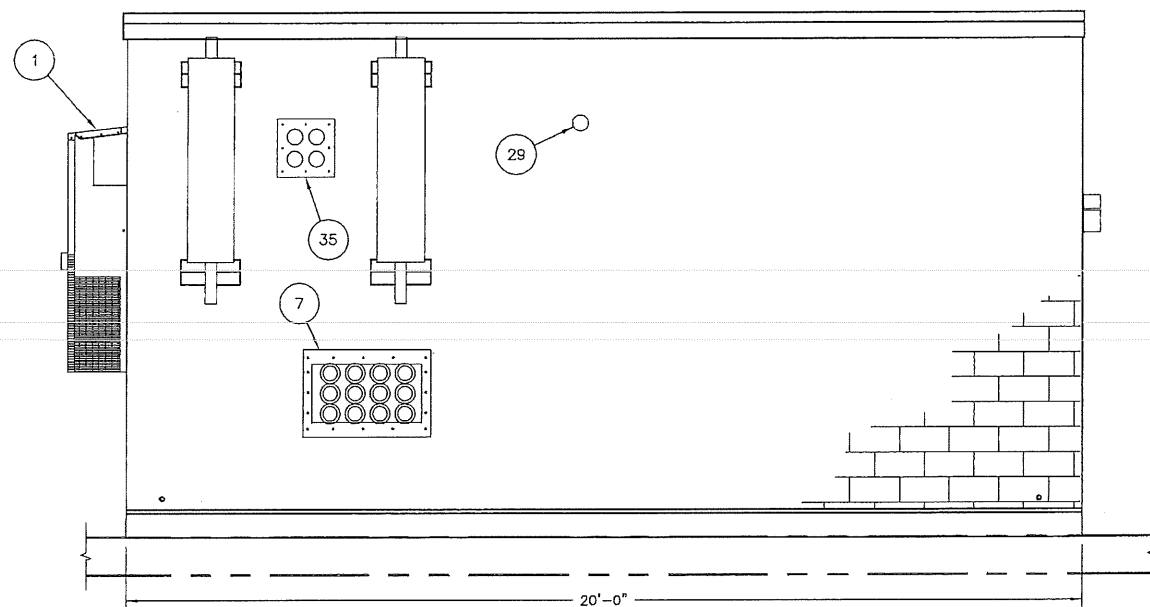
4 EXTERIOR ELEVATION - D
A-201 SCALE: 1/2" = 1'-0" 0 1' 2' 4'



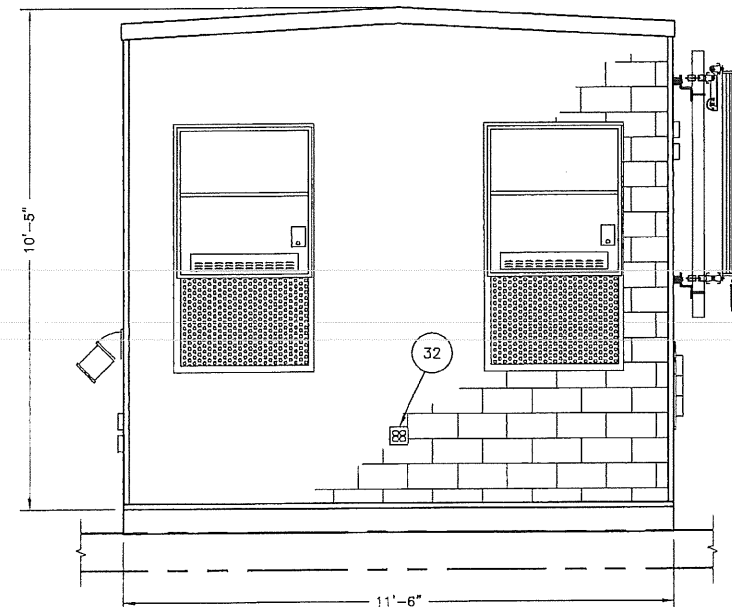
2 EXTERIOR ELEVATION - A
A-201 SCALE: 1/2" = 1'-0" 0 1' 2' 4'

NOTE:
REFER TO DRAWING A-301
FOR KEYED BILL OF MATERIALS

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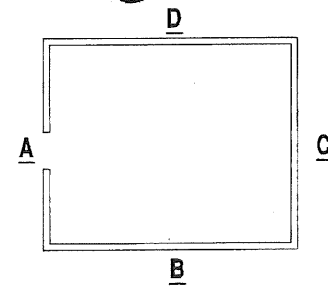


3 EXTERIOR ELEVATION - B
A-201 SCALE: 1/2" = 1'-0" 0 1' 2' 4'



1 EXTERIOR ELEVATION - C
A-201 SCALE: 1/2" = 1'-0" 0 1' 2' 4'

James M. Jepsen
Professional Engineer
State of Maine
License No. 12345



KEY PLAN

TURNING MILL CONSULTANTS, INC.
DEVELOPERS, ENGINEERS AND CONSTRUCTION MANAGERS
68 TUPPER ROAD, UNIT 3
PO BOX 1159, SANDWICH, MA 02563
TEL: (508) 899-4385 - FAX: (508) 899-4246
www.turningmillconsultants.com

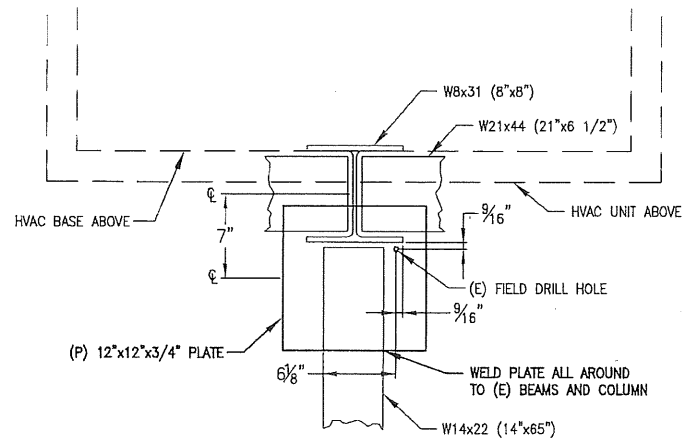
SAI communications
22 KEEWAYDIN DRIVE
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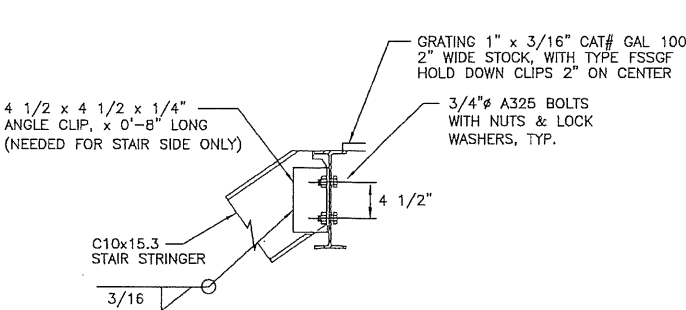
at&t Mobility
550 COCHITUATE ROAD
SUITES 13 & 14
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1	09/19/11	CHG SHELTER DESIGN	TDC	SRS	JPS
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS INDICATED		DESIGNED BY: MJS	DRAWN BY: TDC		

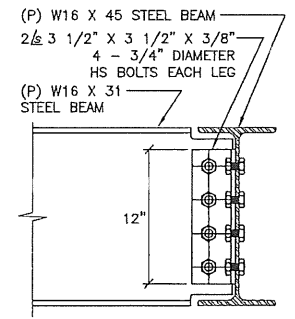
AT&T MOBILITY FRAMINGHAM, MA 01701		
EQUIPMENT SHELTER EXTERIOR ELEVATIONS		
JOB NUMBER	DRAWING NUMBER	REV
SAI 11.43	A-201	5



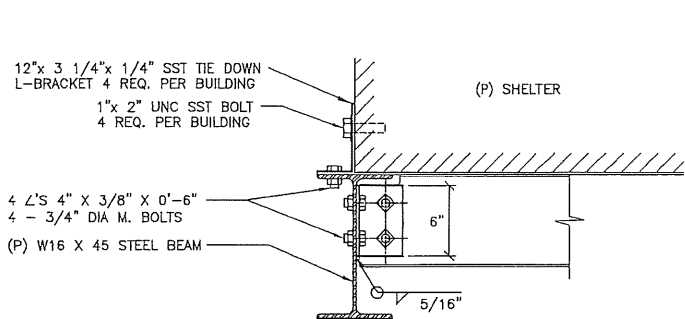
7 MODIFIED BASE PLATE DETAIL AT D2
S-101 SCALE: 1 1/2" = 1'-0" 0 6" 1' 1'-6"



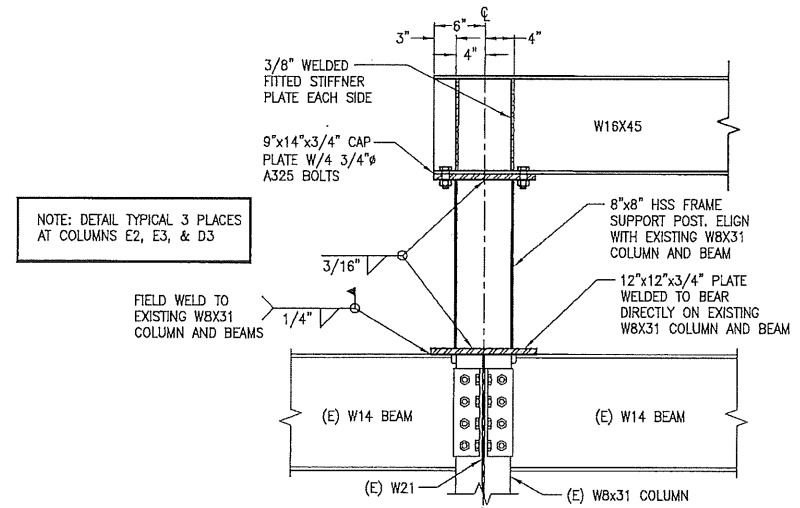
4 BOLTED SHEAR CONNECTION
S-101 SCALE: NONE



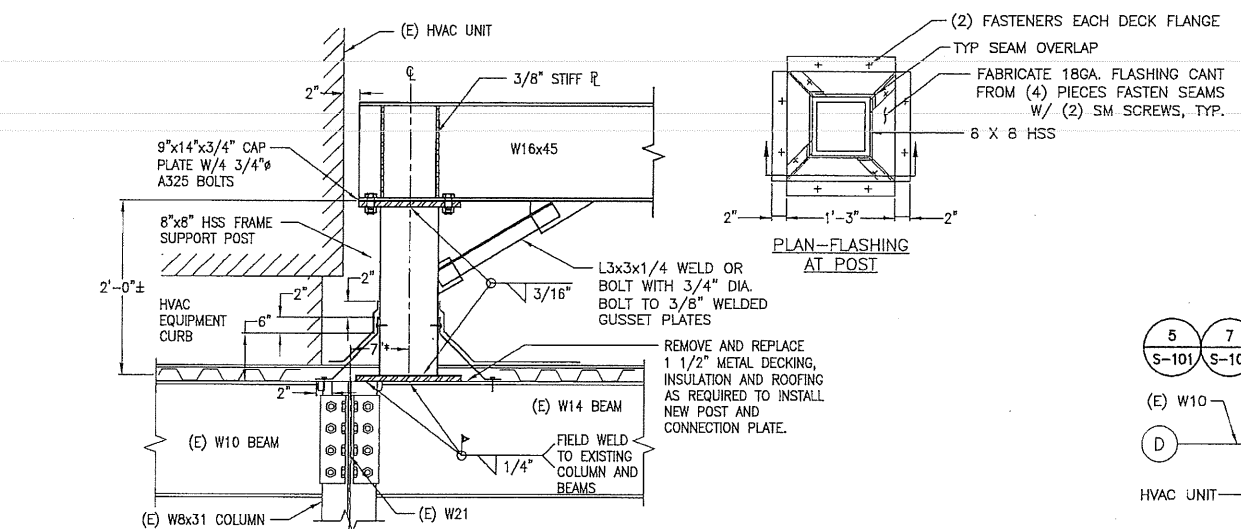
3 SECTION B-B
S-101 SCALE: NONE



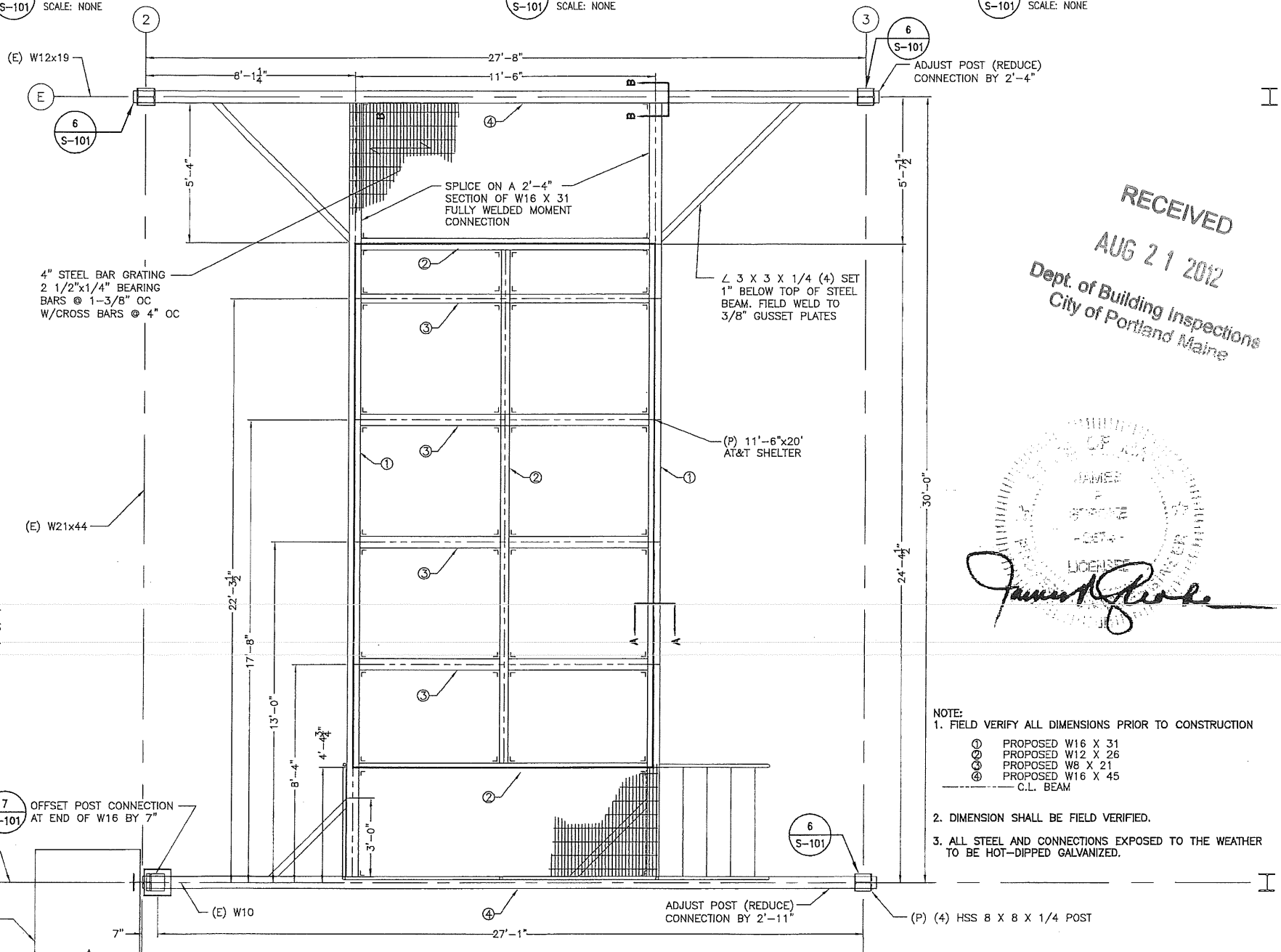
2 SECTION A-A
S-101 SCALE: NONE



6 TYPICAL POST CONNECTION DETAIL
S-101 SCALE: NONE



5 FLASHING/POST CONNECTION DETAIL AT COLUMN D2
S-101 SCALE: NONE



1 SHELTER ROOF FRAME PLAN
S-101 SCALE: 3/8" = 1'-0" 0 1' 2' 4"

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James Glabe
LICENSEE

- NOTE:
1. FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION
- ① PROPOSED W16 X 31
 - ② PROPOSED W12 X 26
 - ③ PROPOSED W8 X 21
 - ④ PROPOSED W16 X 45
 - C.L. BEAM
2. DIMENSION SHALL BE FIELD VERIFIED.
3. ALL STEEL AND CONNECTIONS EXPOSED TO THE WEATHER TO BE HOT-DIPPED GALVANIZED.

TURNING MILL CONSULTANTS, INC.
DEVELOPERS, ENGINEERS AND CONSTRUCTION MANAGERS
68 TUPPER ROAD UNIT 3
PO BOX 1159, SANDWICH, MA 02563
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www.turningmillconsultants.com

SAI communications
22 KEEWAYDIN DRIVE
SALEM, NH 03079

SITE NUMBER: ME2978
SITE NAME: PORTLAND - BAXTER BLVD
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CUMBERLAND COUNTY

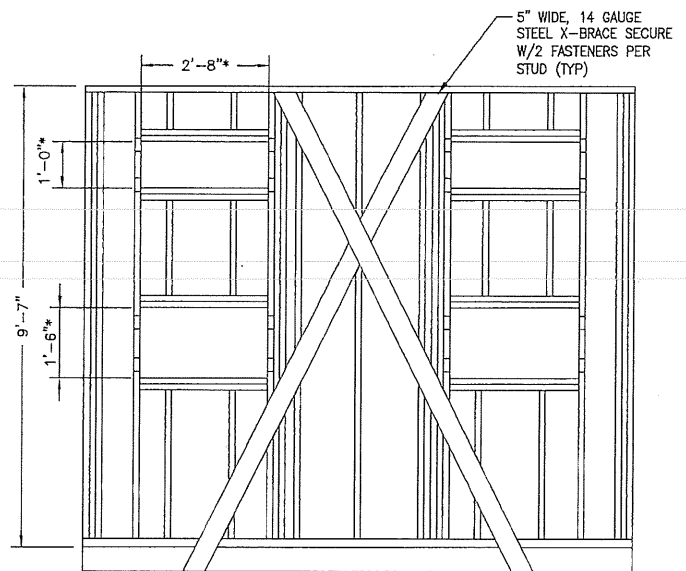
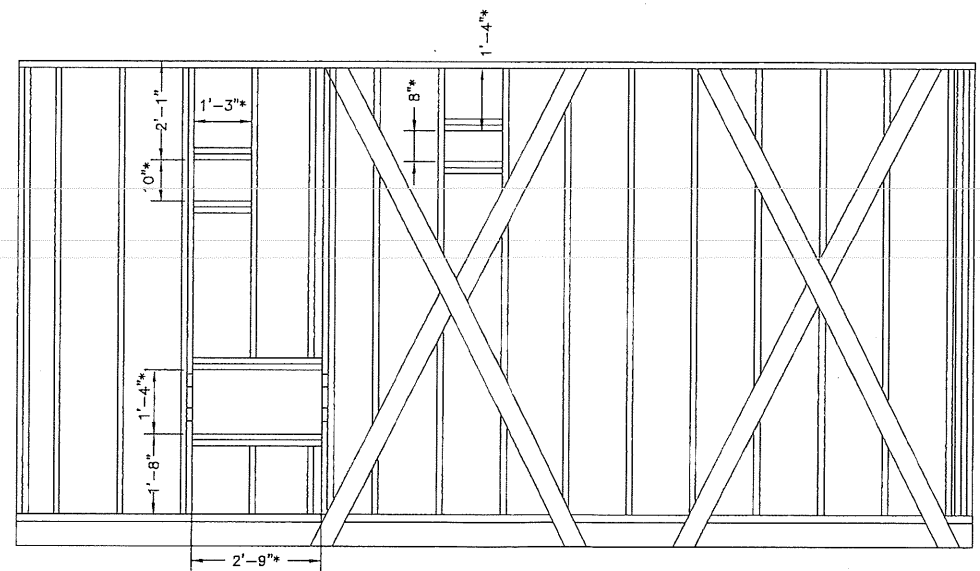
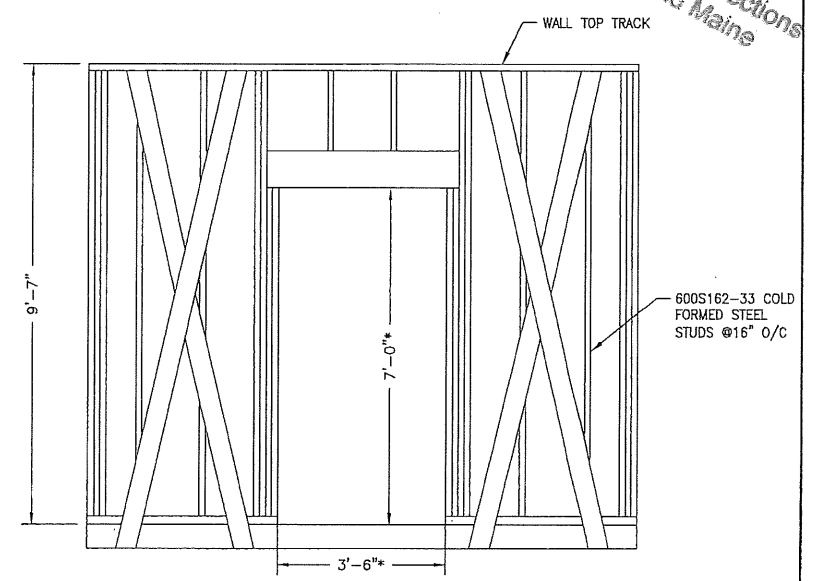
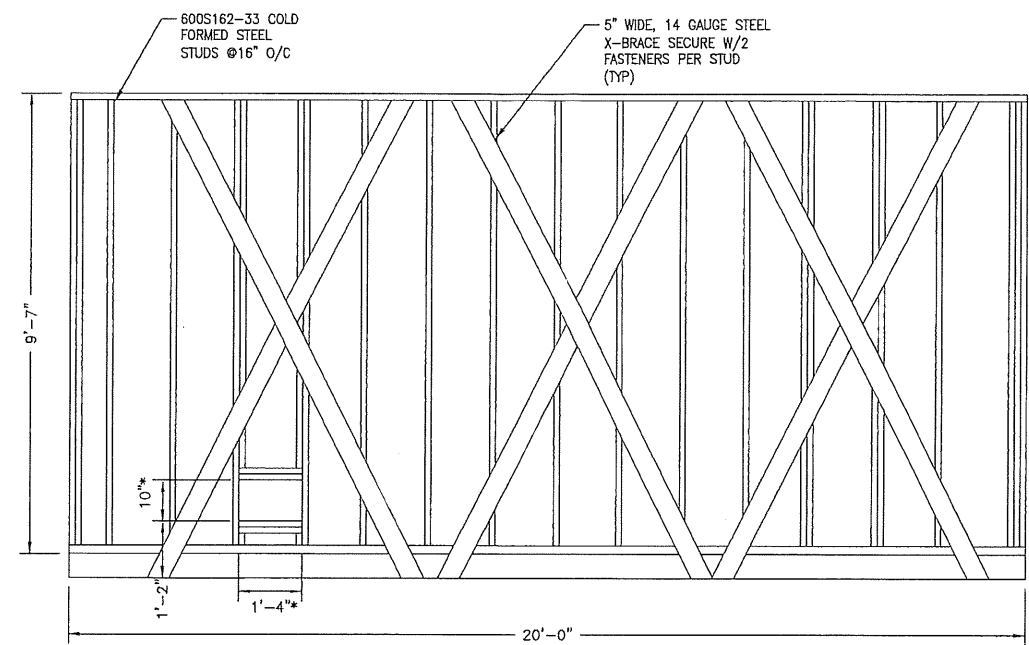
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5	08/13/12	ADDENDUM	TDC	SRS	JPS
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NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS INDICATED		DESIGNED BY: MJS	DRAWN BY: TDC		

AT&T MOBILITY FRAMINGHAM, MA 01701		
EQUIPMENT SHELTER FRAME PLAN & DETAILS		
JOB NUMBER	DRAWING NUMBER	REV
SAI 11.43	S-101	-

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JAMES
STROKE
-2074-
LICENSEE



2 **FRAME DETAILS**
S-501 SCALE: 1/2" = 1'-0" 0 1' 2' 4'

*NOTE: CONTRACTOR SHALL VERIFY ALL ROUGH OPENING DIMENSIONS FOR EQUIPMENT PRIOR TO FRAMING.

1 **X-BRACING FRAME DETAILS**
S-501 SCALE: 1/2" = 1'-0" 0 1' 2' 4'

TURNING MILL CONSULTANTS, INC.
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PORTLAND, ME 04103
CUMBERLAND COUNTY

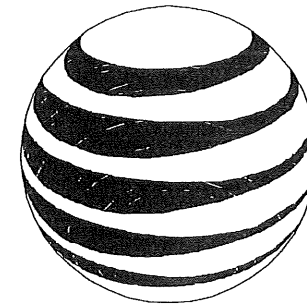
at&t Mobility
550 COCHITUATE ROAD
SUITES 13 & 14
FRAMINGHAM, MA 01701

5	08/16/12	ADDENDUM: A-101/A-201/S-101/S-501	TDC	SRS	JPS
4	04/17/12	REISSUED FOR CONSTRUCTION	TDC	SRS	JPS
3	10/10/11	REISSUED FOR CONSTRUCTION	TDC	SRS	JPS
2	10/05/11	REISSUED FOR REVIEW	TDC	SRS	JPS
1	09/19/11	CHG SHELTER DESIGN	TDC	SRS	JPS
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS INDICATED		DESIGNED BY: MJS	DRAWN BY: TDC		

AT&T MOBILITY FRAMINGHAM, MA 01701		
EQUIPMENT SHELTER FRAMING DETAILS		
JOB NUMBER	DRAWING NUMBER	REV
SAI 11.43	S-501	5

PROJECT INFORMATION

SCOPE OF WORK: UNMANNED TELECOMMUNICATIONS FACILITY MODIFICATIONS
 SITE ADDRESS: 500 WASHINGTON AVE
 PORTLAND, ME 04103
 LATITUDE: 43.6794° N 43° 40' 45.96" N
 LONGITUDE: 70.2578° W 70° 15' 28.08" W
 JURISDICTION: NATIONAL, STATE & LOCAL CODES OR ORDINANCES
 CURRENT USE: TELECOMMUNICATIONS FACILITY
 PROPOSED USE: TELECOMMUNICATIONS FACILITY
 NOC#: 866-915-5600



at&t
 Mobility

As-BUILTS
 EAST COAST COMM.
 10/6/12
 MHA CR

DRAWING INDEX

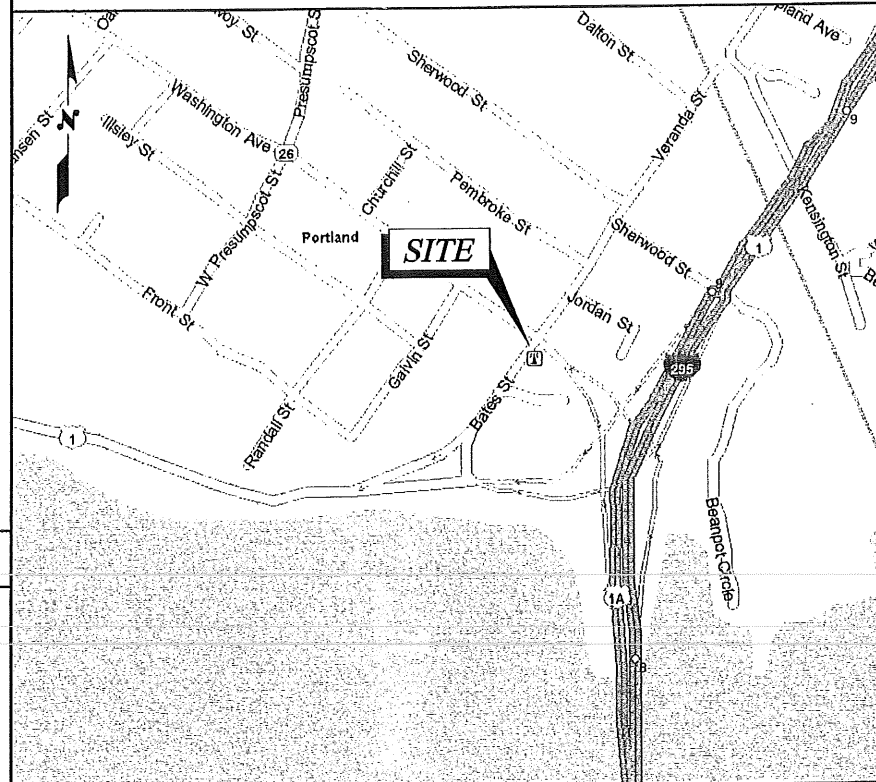
REV

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SITE NUMBER: ME2978

SITE NAME: PORTLAND BAXTER BLVD

VICINITY MAP



APPLICABLE BUILDING CODES AND STANDARDS

CONTRACTOR'S WORK SHALL COMPLY WITH PROJECT STANDARD NOTES, SYMBOLS AND DETAILS (SEE DRAWING INDEX FOR STANDARD NOTES AND DETAILS INCLUDED WITH TYPICAL DRAWING PACKAGE). CONTRACTOR WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

BUILDING CODE:
 MAINE BUILDING CODE (IBC 2009).

ELECTRICAL CODE:
 NATIONAL ELECTRICAL CODE (NEC 2008)
 MAINE ELECTRICAL CODE (NEC 2002 NFPA #70)

CONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
 AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
 AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION.
 TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES.
 (TIA) 607. COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS.

INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERING (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM.
 IEEE 1100 (1999), RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT.

TELCORDIA, GR-1503 COAXIAL CABLE CONNECTIONS

ANSI T1.311, FOR TELECOM - DC POWER SYSTEMS - TELECOM, ENVIRONMENTAL PROTECTION

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

GENERAL NOTES

1. THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF AT&T. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.
2. THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.
3. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE AT&T REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

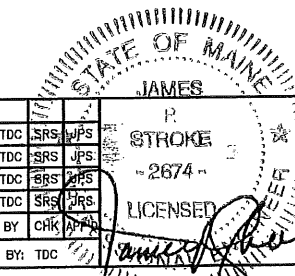
CONTACT & UTILITY INFORMATION

CONTACT	CONTACT	COMPANY	PHONE NO.
ENGINEERING:	STEPHEN SHURTLEFF	TURNING MILL CONSULTANTS, INC.	(508) 888-4383
SAC:	GIN VILANTE	WELLMAN ASSOCIATES, INC.	(978) 846-4954
CONSTRUCTION:	TOM ALLAIN	SAI COMMUNICATIONS	(603) 305-5641
UTILITIES			
POWER:	CENTRAL MAINE POWER CO. (800) 564-3181		
TELCO:	AT&T (207) 253-5062		

DIRECTIONS: FROM HQ DEPART DEPART 22 KEEWAYDIN DR, SALEM, NH 03079 ON KEEWAYDIN DR, TURN RIGHT ONTO PELHAM RD, THEN IMMEDIATELY TURN LEFT ONTO RAMP, MERGE ONTO I-93 [ALAN B SHEPARD JR HWY], ENTERING MASSACHUSETTS, AT EXIT 4B, TURN RIGHT ONTO RAMP, AT EXIT 1A, TAKE RAMP (LEFT) ONTO SR-213, AT EXIT 5A, TAKE RAMP (LEFT) ONTO I-495, MERGE ONTO I-95, ENTERING NEW HAMPSHIRE, *TOLL ROAD* STAY ON I-95 [BLUE STAR MEMORIAL HWY], AT EXIT 3, STAY ON I-95 [BLUE STAR MEMORIAL HWY], ENTERING MAINE, *TOLL ROAD* STAY ON I-95 [GOLD STAR MEMORIAL HWY], AT EXIT 44, TAKE RAMP (RIGHT) ONTO I-295, AT EXIT 8, TAKE RAMP (RIGHT) ONTO SR-26 [WASHINGTON AVE], ARRIVE 500 WASHINGTON AVE, PORTLAND, ME 04103.

RECEIVED IN FIELD
 OCT 17 2012
 GF

Dept. of Building Inspections
 City of Portland Maine



AT&T MOBILITY
 FRAMINGHAM, MA 01701

TITLE SHEET

JOB NUMBER	DRAWING NUMBER	REV
SAI 11.43	G-001	3



22 KEEWAYDIN DRIVE
 SALEM, NH 03079

SITE NUMBER: ME2978
 SITE NAME: PORTLAN - BAXTER BLVD

500 WASHINGTON AVE
 PORTLAND, ME 04103
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at&t
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 550 COCHITUATE ROAD
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NO.	DATE	REVISIONS	BY	CHK	APP
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0	08/01/11	ISSUED FOR REVIEW	TDC	SRS	JPS

SCALE: NONE DESIGNED BY: MJS DRAWN BY: TDC

GENERAL NOTES

- FOR THE PURPOSE OF CONSTRUCTION, THE FOLLOWING DEFINITIONS SHALL APPLY:
PROJECT MANAGEMENT - SAI
CONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)
OWNER - AT&T MOBILITY
OEM - ORIGINAL EQUIPMENT MANUFACTURER
- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF PROJECT MANAGEMENT.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
- ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- DRAWINGS PROVIDED HERE ARE NOT TO SCALE UNLESS OTHERWISE NOTED AND ARE INTENDED TO SHOW OUTLINE ONLY.
- UNLESS OTHERWISE NOTED, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY PROJECT MANAGEMENT.
- CONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER, T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. CONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. CONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH PROJECT MANAGEMENT.
- THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
- CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- CONTRACTOR SHALL NOTIFY ENGINEER 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING TRENCHES, SEALING ROOF AND WALL PENETRATIONS AND POST DOWNS, FINISHING NEW WALLS OR FINAL ELECTRICAL CONNECTIONS FOR ENGINEERING REVIEW.
- CONSTRUCTION SHALL COMPLY WITH SPECIFICATION 24782-000-3APS-A00Z-00002, "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T MOBILITY SITES".
- CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. CONTRACTOR SHALL NOTIFY PROJECT MANAGEMENT OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY CONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
- SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.

SITE WORK GENERAL NOTES

- THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO:
A. FALL PROTECTION
B. CONFINED SPACE
C. ELECTRICAL SAFETY
D. TRENCHING AND EXCAVATION.
- ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
- IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES, TOP SOIL AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES.
- CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE AT&T SPECIFICATION FOR SITE SIGNAGE.
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM TRANSMISSION EQUIPMENT AND TOWER AREAS.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION, SEE SOIL COMPACTION NOTES.
- THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE AND STABILIZED TO PREVENT EROSION.
- EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL JURISDICTION'S GUIDELINES FOR EROSION AND SEDIMENT CONTROL.

CONCRETE AND REINFORCING STEEL

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. A HIGHER STRENGTH (4000 PSI) MAY BE USED. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301 CODE REQUIREMENTS.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED, UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WELDED STEEL WIRE FABRIC, UNLESS NOTED OTHERWISE (WFO). 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 LARGER2 IN.
#5 AND SMALLER & WWF1 1/2 IN.
CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
SLAB AND WALL3/4 IN.
BEAMS AND COLUMNS1 1/2 IN.
- A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
- INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHORS SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS. ALL EXPANSION/WEDGE ANCHORS SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED. EXPANSION BOLTS SHALL BE PROVIDED BY RAMSET/REDHEAD OR APPROVED EQUAL.
- CONCRETE CYLINDER TEST IS NOT REQUIRED FOR SLAB ON GRADE WHEN CONCRETE IS LESS THAN 50 CUBIC YARDS (IBC 1905.6.2.3) IN THAT EVENT THE FOLLOWING RECORDS SHALL BE PROVIDED BY THE CONCRETE SUPPLIER.
A. RESULTS OF CONCRETE CYLINDER TEST PERFORMED AT THE SUPPLIER'S PLANT.
B. CERTIFICATION OF MINIMUM COMPRESSIVE STRENGTH FOR THE CONCRETE GRADE SUPPLIED.
FOR GREATER THAN 50 CUBIC YARDS THE CONTRACTOR SHALL PERFORM THE CONCRETE CYLINDER TEST.
- AS AN ALTERNATIVE TO ITEM 7, TEST CYLINDERS SHALL BE TAKEN INITIALLY AND THEREAFTER FOR EVERY 50 YARDS OF CONCRETE FROM EACH DIFFERENT BATCH PLANT.
- EQUIPMENT SHALL NOT BE PLACED ON NEW PADS FOR SEVEN DAYS AFTER PAD IS POURED, UNLESS IT IS VERIFIED BY CYLINDER TESTS THAT COMPRESSIVE STRENGTH HAS BEEN ATTAINED.

STRUCTURAL STEEL NOTES:

- ALL STEEL WORK SHALL BE PAINTED OR GALVANIZED IN ACCORDANCE WITH THE DRAWINGS UNLESS OTHERWISE NOTED. STRUCTURAL STEEL SHALL BE ASTM GRADE 50 UNLESS OTHERWISE NOTED ON THE SITE SPECIFIC DRAWINGS. STEEL DESIGN, INSTALLATION AND BOLTING SHALL BE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "MANUAL OF STEEL CONSTRUCTION".
- ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION". PAINTED SURFACES SHALL BE TOUCHED UP.
- BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE (3/4") CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
- NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. ASTM A 307 BOLTS UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER REVIEW & APPROVAL ON PROJECTS REQUIRING STRUCTURAL STEEL.
- ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AISC SPECIFICATIONS.

SOIL COMPACTION NOTES FOR SLAB ON GRADE

- EXCAVATE AS REQUIRED TO REMOVE VEGETATION AND TOPSOIL, EXPOSE UNDISTURBED NATURAL SUBGRADE AND PLACE CRUSHED STONE AS REQUIRED.
- COMPACTION CERTIFICATION: AN INSPECTION AND WRITTEN CERTIFICATION BY A QUALIFIED GEOTECHNICAL TECHNICIAN OR ENGINEER IS ACCEPTABLE.
- AS AN ALTERNATE TO INSPECTION AND WRITTEN CERTIFICATION, THE "UNDISTURBED SOIL" BASE SHALL BE COMPACTED WITH "COMPACTION EQUIPMENT", LISTED BELOW, TO AT LEAST 90% MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM D 1557 METHOD C.
- COMPACTED SUB BASE SHALL BE UNIFORM AND LEVELED. PROVIDE 6" MINIMUM CRUSHED STONE OR GRAVEL COMPACTED IN 3" LIFTS ABOVE COMPACTED SOIL. GRAVEL SHALL BE NATURAL OR CRUSHED WITH 100% PASSING 1" SIEVE.
- AS AN ALTERNATE TO ITEMS 2 AND 3, PROOFROLL THE SUBGRADE SOILS WITH 5 PASSES OF A MEDIUM SIZED VIBRATORY PLATE COMPACTOR (SUCH AS BOMAG BPR 30/38) OR HAND-OPERATED SINGLE DRUM VIBRATORY ROLLER (SUCH AS BOMAG BW 55E). ANY SOFT AREAS THAT ARE ENCOUNTERED SHOULD BE REMOVED AND REPLACED WITH A WELL-GRADED GRANULAR FILL AND COMPACTED AS STATED ABOVE.

COMPACTION EQUIPMENT

- HAND OPERATED DOUBLE DRUM, VIBRATORY ROLLER, VIBRATORY PLATE COMPACTOR OR JUMPING JACK COMPACTOR.

CONSTRUCTION NOTES:

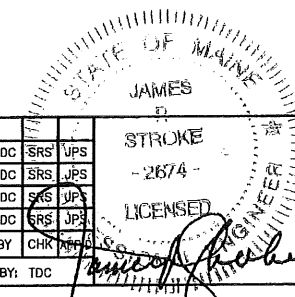
- FIELD VERIFICATION: CONTRACTOR SHALL FIELD VERIFY SCOPE OF WORK, AT&T ANTENNA PLATFORM LOCATION AND ANTENNA(S) TO BE REPLACED.
- COORDINATION OF WORK: CONTRACTOR SHALL COORDINATE RF WORK AND PROCEDURES WITH PROJECT MANAGEMENT.
- CABLE LADDER RACK: CONTRACTOR SHALL FURNISH AND INSTALL CABLE LADDER RACK, CABLE TRAY AND CONDUIT AS REQUIRED TO SUPPORT CABLES TO THE NEW EQUIPMENT LOCATION(S).

ELECTRICAL INSTALLATION NOTES:

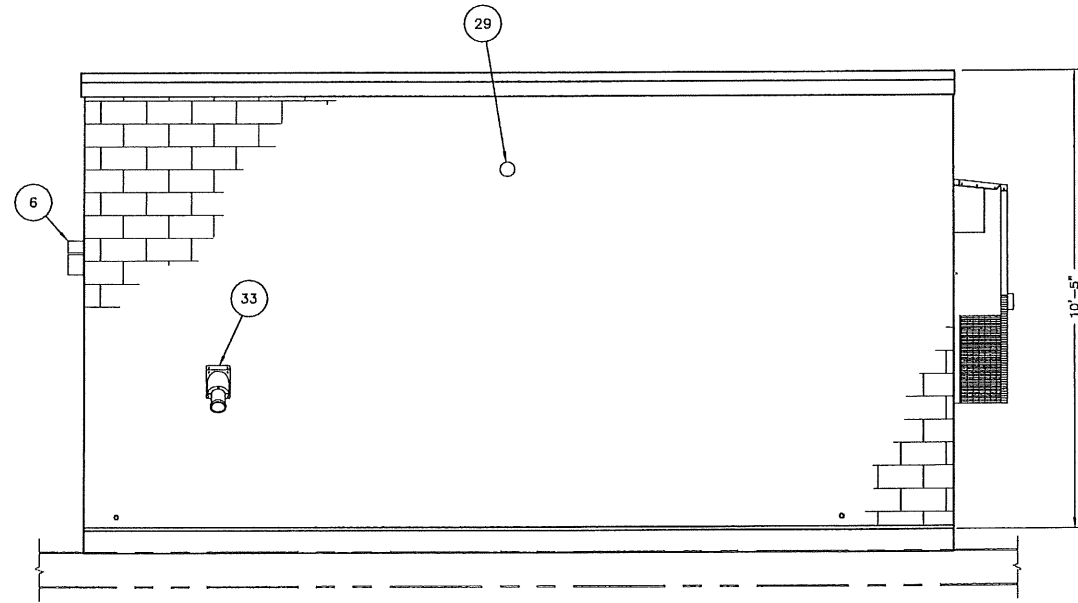
- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
- CONTRACTOR SHALL MODIFY OR INSTALL CABLE TRAY SYSTEM AS REQUIRED TO SUPPORT RF AND TRANSPORT CABLING TO THE NEW EQUIPMENT. CONTRACTOR SHALL SUBMIT MODIFICATIONS TO PROJECT MANAGEMENT FOR APPROVAL.
- CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.

- ALL NEW PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE EQUIPPED WITH UL LISTED FIRESTOP SYSTEM WITH RATING EQUAL TO, OR GREATER THAN, THAT OF ASSEMBLY BEING PENETRATED. USE OF EXISTING THROUGH PENETRATIONS FOR ROUTING OF WIRING AND/OR CABLING SHALL HAVE EXISTING FIRESTOP RATING RE-ESTABLISHED AFTER PULLING OF WIRE/CABLE. SPARE PENETRATIONS SHALL BE EQUIPPED WITH RE-ENTERABLE UL LISTED FIRESTOP DEVICE (I.E. INTUMESCENT PLUG OR SIMILAR APPARATUS).
- WIRING, RACEWAY, AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELCORDIA.
- ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELCORDIA.
- CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
- EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E. HOTS), GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM TO NEC AND OSHA, AND MATCH INSTALLATION REQUIREMENTS.
- ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E. PANELBOARD AND CIRCUIT IDs).
- PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
- ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (SIZE 14 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (SIZE 6 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED OUTDOORS, OR BELOW GRADE, SHALL BE SINGLE CONDUCTOR #2 AWG SOLID TINNED COPPER CABLE, UNLESS OTHERWISE SPECIFIED.
- POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TO CABLE (SIZE 14 AWG OR LARGER), 600V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
- ALL POWER AND POWER GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).
- RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
- NEW RACEWAY OR CABLE TRAY WILL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
- ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
- RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW TYPE FITTINGS ARE NOT ACCEPTABLE.
- CABINETS, BOXES AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
- CABINETS, BOXES AND WIREWAYS SHALL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
- WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANOUT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
- EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
- METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE PROJECT MANAGEMENT BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
- THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.

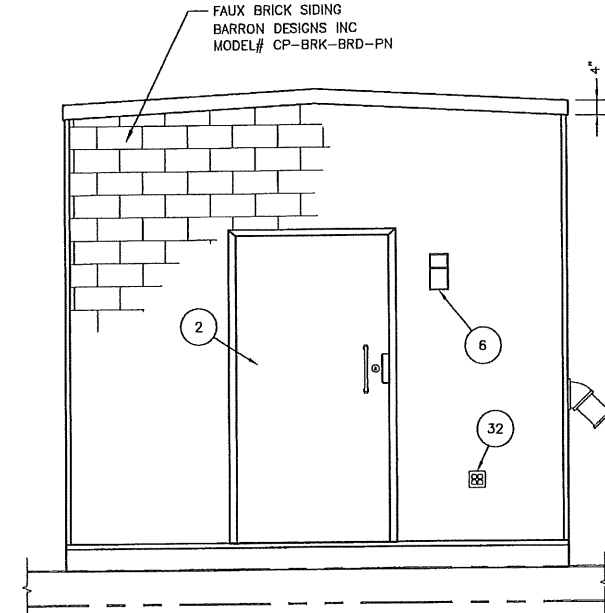
Handwritten signature and date:
10/6/11



 DEVELOPERS, ENGINEERS AND CONSTRUCTION MANAGERS 63 TUPPER ROAD, UNIT 3 PO BOX 1159, SANDWICH, MA 02563 TEL: (508) 888-4383 - FAX: (508) 888-4246 www.turningmillconsultants.com	 22 KEEWAYDIN DRIVE SALEM, NH 03079	SITE NUMBER: ME2978 SITE NAME: PORTLAN - BAXTER BLVD 500 WASHINGTON AVE PORTLAND, ME 04103 CUMBERLAND COUNTY	 550 COCHITUATE ROAD SUITES 13 & 14 FRAMINGHAM, MA 01701	3 10/10/11 REISSUED FOR CONSTRUCTION TDC SRS UPS 2 10/05/11 REISSUED FOR REVIEW TDC SRS JPS 1 09/19/11 CHG SHELTER DESIGN TDC SRS UPS 0 08/01/11 ISSUED FOR REVIEW TDC SRS JPS	NO. DATE REVISIONS BY CHK APP SCALE: NONE DESIGNED BY: MJS DRAWN BY: TDC	AT&T MOBILITY FRAMINGHAM, MA 01701 GENERAL NOTES JOB NUMBER: SAI 11.43 DRAWING NUMBER: G-002 REV: 3
				STATE OF MAINE JAMES D. STROKE LICENSED PROFESSIONAL ENGINEER LICENSE NO. 2874		

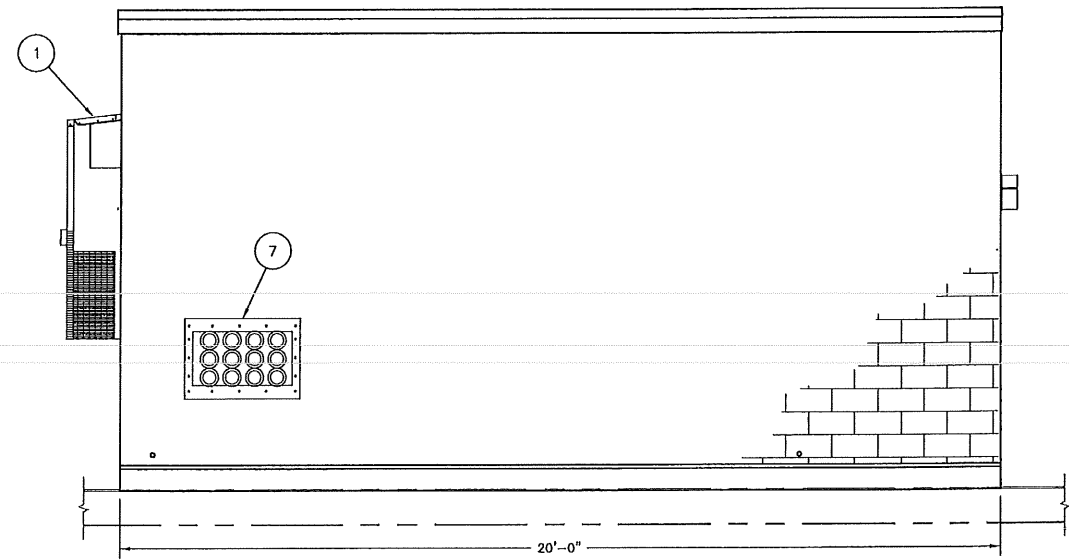


4 EXTERIOR ELEVATION - D
 A-201 SCALE: 1/2" = 1'-0" 0 1' 2' 4'

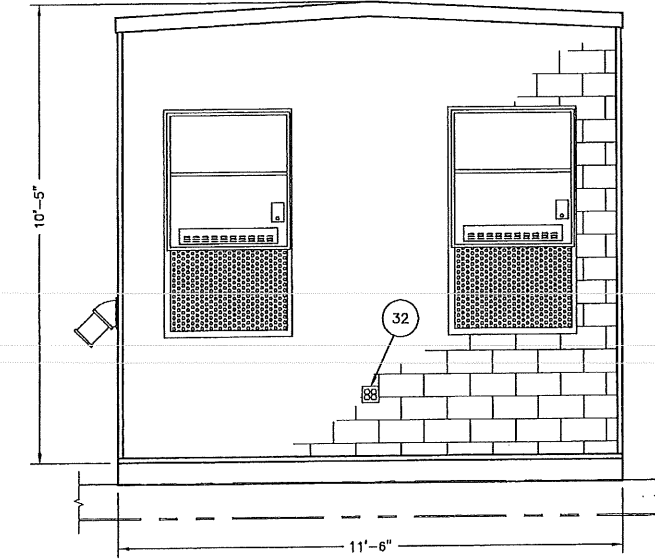


2 EXTERIOR ELEVATION - A
 A-201 SCALE: 1/2" = 1'-0" 0 1' 2' 4'

NOTE:
 REFER TO DRAWING A-301
 FOR KEYED BILL OF MATERIALS

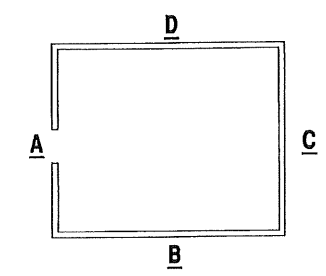


3 EXTERIOR ELEVATION - B
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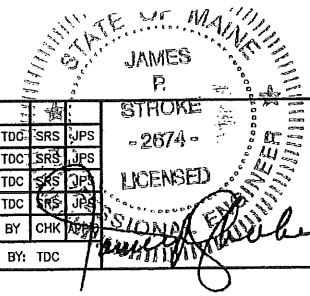


1 EXTERIOR ELEVATION - C
 A-201 SCALE: 1/2" = 1'-0" 0 1' 2' 4'

Handwritten signature and date:
 10/6/11



KEY PLAN



TURNING MILL CONSULTANTS, INC.
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 www.turningmillconsultants.com

SAI communications
 22 KEEWAYDIN DRIVE
 SALEM, NH 03079

SITE NUMBER: ME2978
 SITE NAME: PORTLAN - BAXTER BLVD
 500 WASHINGTON AVE
 PORTLAND, ME 04103
 CUMBERLAND COUNTY

at&t Mobility
 550 COCHITUATE ROAD
 SUITES 13 & 14
 FRAMINGHAM, MA 01701

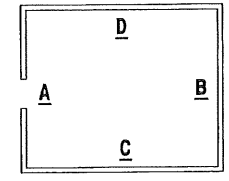
NO.	DATE	REVISIONS	BY	CHK
3	10/10/11	REISSUED FOR CONSTRUCTION	TDC	SRS
2	10/05/11	REISSUED FOR REVIEW	TDC	SRS
1	09/19/11	CHG SHELTER DESIGN	TDC	SRS
0	08/01/11	ISSUED FOR REVIEW	TDC	SRS

AT&T MOBILITY FRAMINGHAM, MA 01701		
EQUIPMENT SHELTER EXTERIOR ELEVATIONS		
JOB NUMBER	DRAWING NUMBER	REV
SAI 11.43	A-201	3

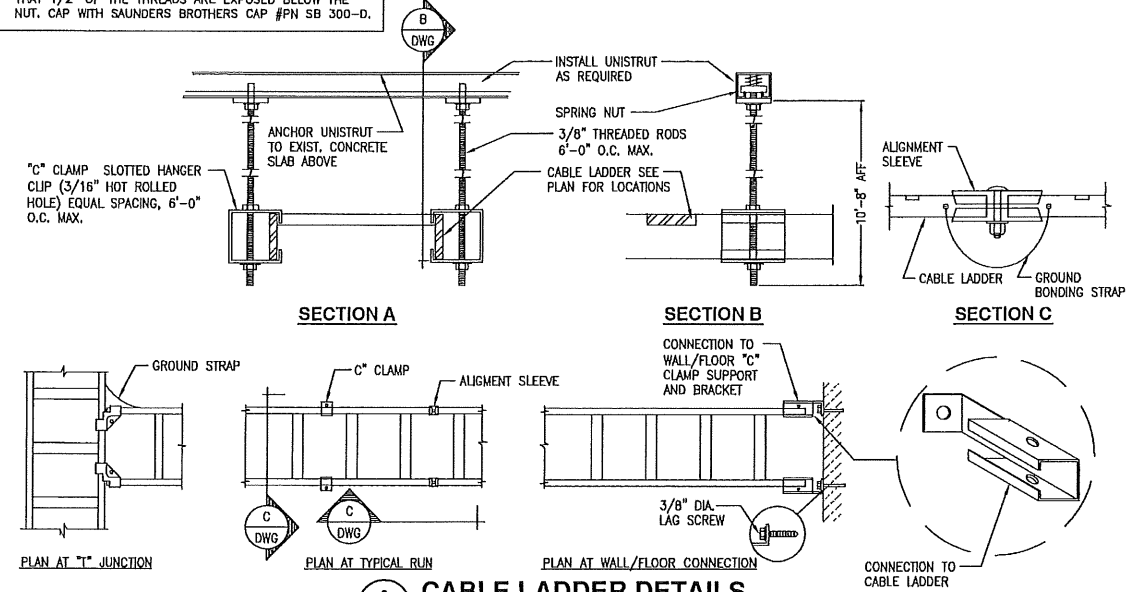
CABLE LADDER GENERAL NOTES

1. ALL CUT ENDS OF CABLE LADDER TO BE FILED SMOOTH AND PAINTED WITH MATCHING COLOR.
2. BOTTOM OF CABLE LADDER TO BE 6"-6" ABOVE FINISH FLOOR, UNLESS NOTED OTHERWISE.
3. CORNER BRACKETS TO BE ON THE INSIDE, UNLESS LADDER RUNGS INTERFERE, THEN CORNER BRACKETS MAY BE ON THE OUTSIDE.
4. CABLE LADDER RUNGS TO BE ON TOP OF HORIZONTAL LADDER AND AWAY FROM WALL ON VERTICAL LADDERS.
5. NUTS TO BE ON BOTTOM OF ASSEMBLY, OR TOWARDS WALL.
6. 3/8" THREADED RODS, SUPPORTING CABLE LADDER, SPACED 4'-0" APART, MINIMUM.
7. AFTER FINAL LEVELING OF CABLE LADDER CUT ROD SO THAT 1/2" OF THE THREADS ARE EXPOSED BELOW THE NUT. CAP WITH SAUNDERS BROTHERS CAP #PN SB 300-0.

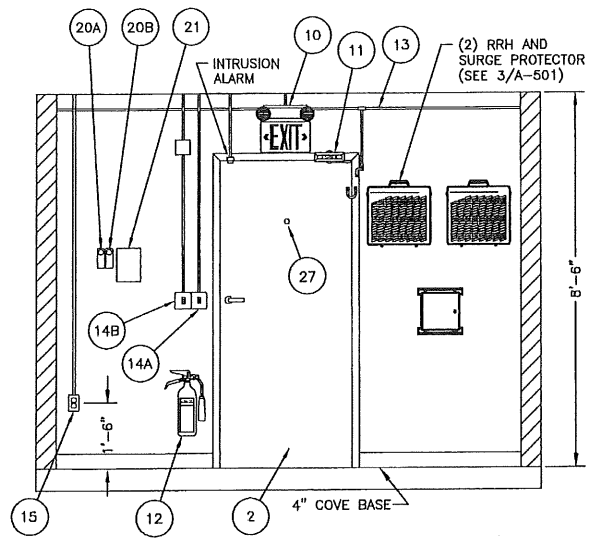
NOTE:
REFER TO DRAWING A-301
FOR KEYED BILL OF MATERIALS



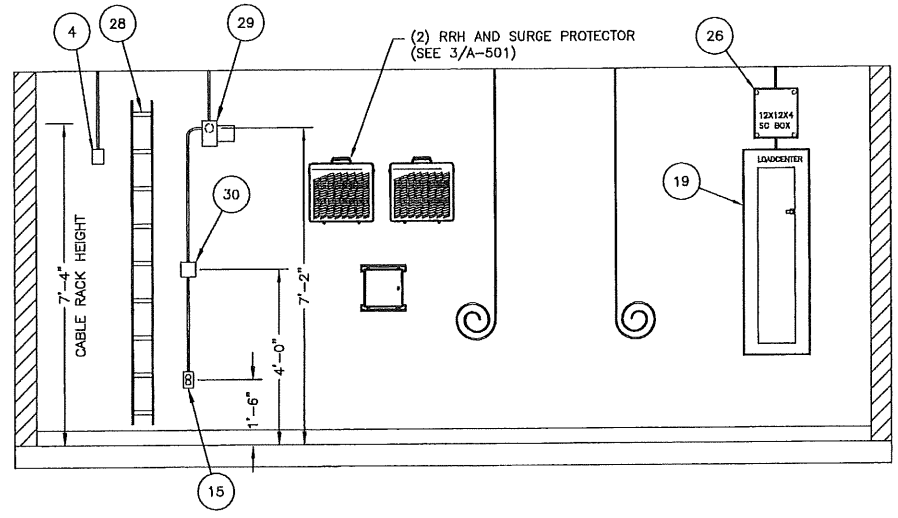
KEY PLAN



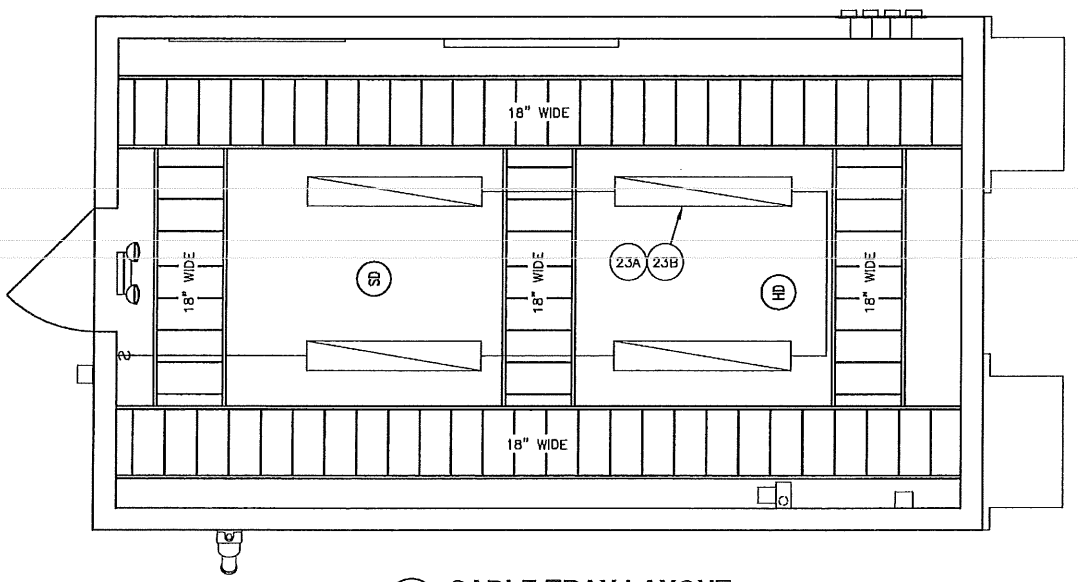
6 CABLE LADDER DETAILS
A-202 SCALE: NONE



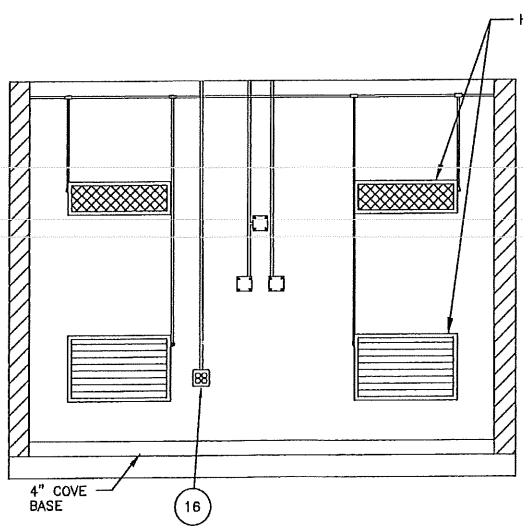
4 INTERIOR ELEVATION - A
A-202 SCALE: 1/2" = 1'-0" 0 1' 2' 4'



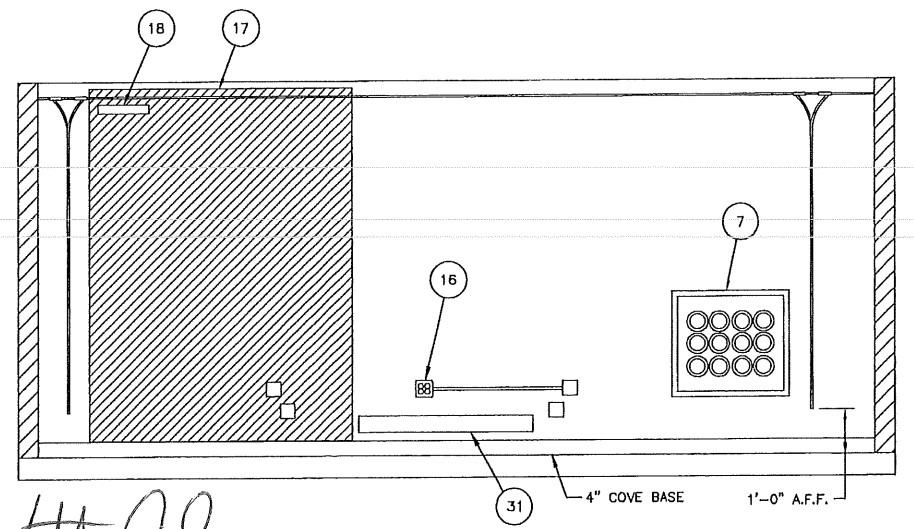
2 INTERIOR ELEVATION - C
A-202 SCALE: 1/2" = 1'-0" 0 1' 2' 4'



5 CABLE TRAY LAYOUT
A-202 SCALE: 1/2" = 1'-0" 0 1' 2' 4'



3 INTERIOR ELEVATION - B
A-202 SCALE: 1/2" = 1'-0" 0 1' 2' 4'



1 INTERIOR ELEVATION - D
A-202 SCALE: 1/2" = 1'-0" 0 1' 2' 4'

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SAI communications
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SALEM, NH 03079

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SITE NAME: PORTLAN - BAXTER BLVD
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PORTLAND, ME 04103
CUMBERLAND COUNTY

at&t Mobility
550 COCHITUATE ROAD
SUITES 13 & 14
FRAMINGHAM, MA 01701

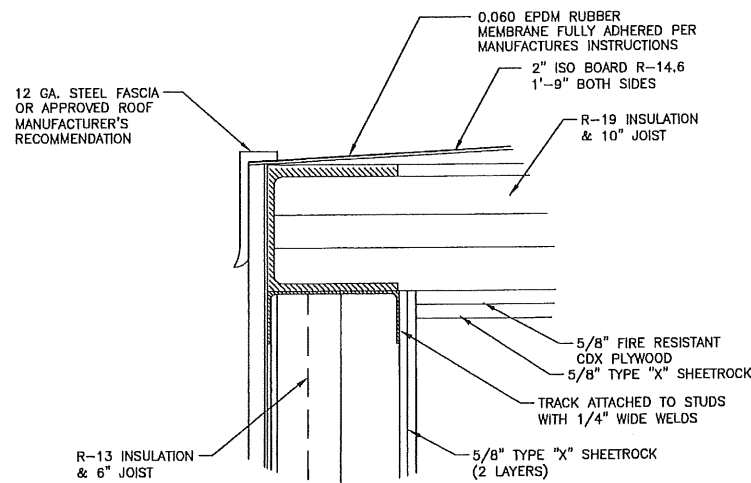
NO.	DATE	REVISIONS	BY
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2	10/05/11	REISSUED FOR REVIEW	TDC SRS JPS
1	09/19/11	CHG SHELTER DESIGN	TDC SRS JPS
0	08/01/11	ISSUED FOR REVIEW	TDC SRS JPS

SCALE: AS INDICATED DESIGNED BY: MJS DRAWN BY: TDC

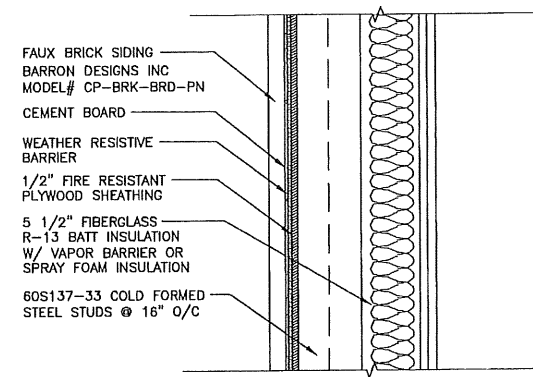
AT&T MOBILITY
FRAMINGHAM, MA 01701
EQUIPMENT SHELTER
INTERIOR ELEVATIONS AND DETAILS
JOB NUMBER: SAI 11.43
DRAWING NUMBER: A-202
REV: 3

BILL OF MATERIALS

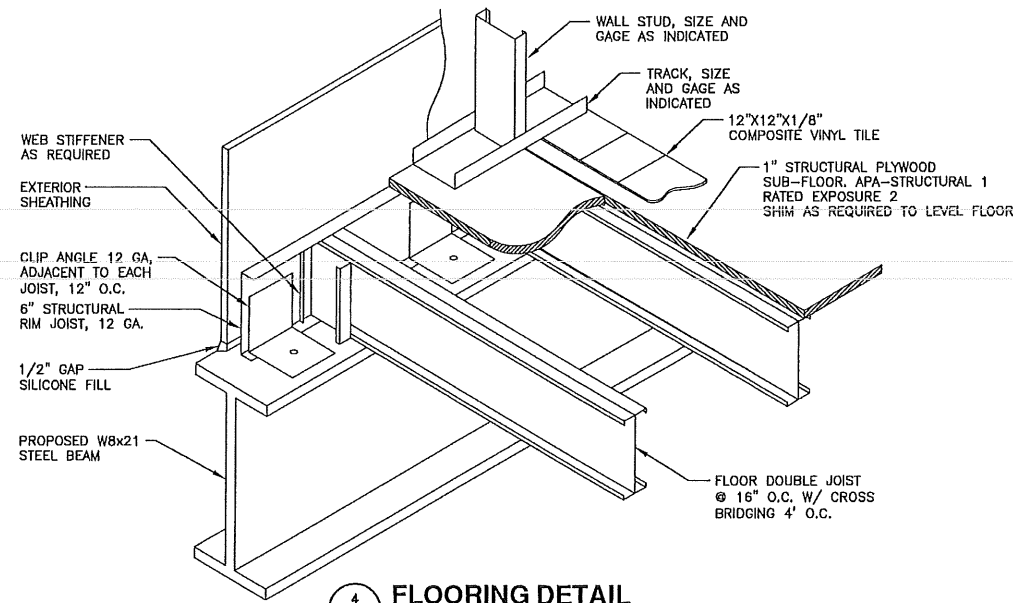
ITEM	QTY.	MODEL NO.	DESCRIPTION
1	2	AVP-60ACA-05C	MARVAIR COMPAC II 56,000 BTU HVAC UNIT WITH 5 KW HEATSTRIP & ECONOMIZER
2	1	VC3670NB1C	3'-6" X 7'-0", 18 GA. INSULATED, PRIMED AND PAINTED STEEL DOOR
3	1	83T-B	PULL HANDLE (INSIDE & OUT) WITH BEST DEADBOLT AND BLUE CORE
4	1	HD-21-1-BR	MACURCO HYDROGEN GAS DETECTOR
5	1	MBS 6016	ANTI-PICK GUARD
6	1	-	EXTERIOR-WP LIGHT FIXTURE 70W
7	1	B1333	MICROFLECT 18 PORT CABLE ENTRY PANEL
8A	1	-	EXTERIOR 4" X 23" X 1/4" GROUND BAR, TINNED COPPER
8B	1	-	INTERIOR 4" X 23" X 1/4" GROUND BAR, TINNED COPPER
9	1	GFR5342-2	GE NEMA LINE-5 120V 20A EXTERIOR GFI RECEPTACLE
10	1	CCX31RWHDH	EMERGENCY LIGHT & EXIT LIGHT COMBO
11	1	9305BC	NORTON DOOR CLOSER
12	1	PRO10CDM	KIDDE 10LB CO2 FIRE EXTINGUISHER
13	-	MBS 6004	HALO GROUND WITH #2 GREEN INSULATED COPPER WIRE W/1 UNDER GROUND BARS
14A	1	FF12H	(IVORY) 12 HOUR TIMER FOR INTERIOR LIGHTS
14B	1	FF2H	(IVORY) 2 HOUR TIMER FOR EXTERIOR LIGHT
15	3	5252	(IVORY) 120 VOLT 20 AMP DUPLEX RECEPTACLE
16	3	5252	(IVORY) 120 VOLT 20 AMP QUAD RECEPTACLE
17	1	-	6' X 8' X 3/4" PLYWOOD, TELCO, FIRE TREATED, PAINTED BLACK
18	1	GH-7008	TELCO GROUND BAR
19	1	004876	200 AMP GENERAC INTEGRATED LOAD CENTER
20A	1	2E-206	DAYTON HIGH TEMP CONTROL
20B	1	2E-206	DAYTON LOW TEMP CONTROL
21	1	CSTAT3	COMSTAT 3 LEAD LAG THERMOSTAT
22A	2	7000 SERIES	GENTEX SMOKE DETECTOR
22B	1	A1282B	HEAT DETECTOR
23A	4	C 2 32 120 GEB	LITHONIA LIGHTS W/WRAP AROUND LENS
23B	8	F032/730	SYLVANIA BULBS
24	1	-	4" X 4" X 4" WIREWAY
25	1	-	6" X 6" X 4" WIREWAY
26	1	-	12" X 12" HOFFMAN BOX FOR ALARMS
27	1	-	WIDE ANGLE VIEWER
28	-	-	18" LADDER RACK W/HARDWARE
29	1	4C440	DAYTON SHADED POLE EXHAUST BLOWER
30	1	1101	TORK BLOWER CONTROL TIMER
31	1	-	HEATER, BASEBOARD, 2000W, 240V, 94", HYRONIC
32	2	-	120 VOLT 20 AMP GFCI QUAD OUTDOOR RECEPTACLE
33	1	-	GENERATOR RECEPTACLE



3 ROOF FRAMING DETAIL
SCALE: NONE

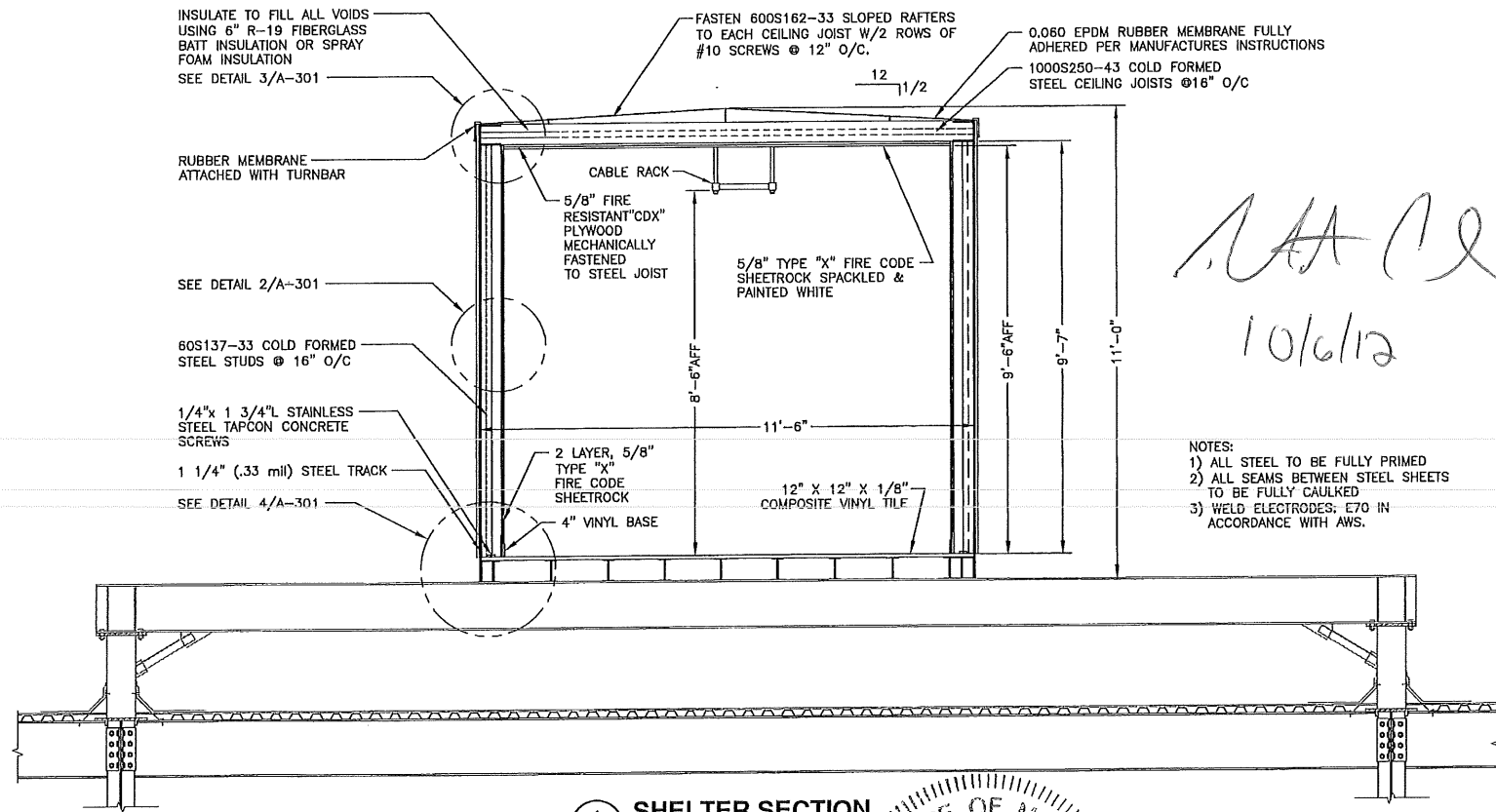


2 WALL FRAMING DETAIL
SCALE: NONE



4 FLOORING DETAIL
SCALE: NONE

NOTE: REFER TO STRUCTURAL DRAWINGS FOR FRAMING



1 SHELTER SECTION
SCALE: 1/2" = 1'-0"

Handwritten signature and date:
10/6/12

- NOTES:
1) ALL STEEL TO BE FULLY PRIMED
2) ALL SEAMS BETWEEN STEEL SHEETS TO BE FULLY CAULKED
3) WELD ELECTRODES: E70 IN ACCORDANCE WITH AWS.



22 KEEWAYDIN DRIVE
SALEM, NH 03079

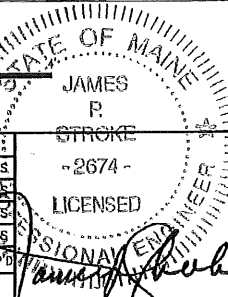
SITE NUMBER: ME2978
SITE NAME: PORTLAN - BAXTER BLVD

500 WASHINGTON AVE
PORTLAND, ME 04103
CUMBERLAND COUNTY



NO.	DATE	REVISIONS	BY	CHK	APP'D
3	10/10/11	REISSUED FOR CONSTRUCTION	TDC	SRS	JPS
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0	08/01/11	ISSUED FOR REVIEW	TDC	SRS	JPS

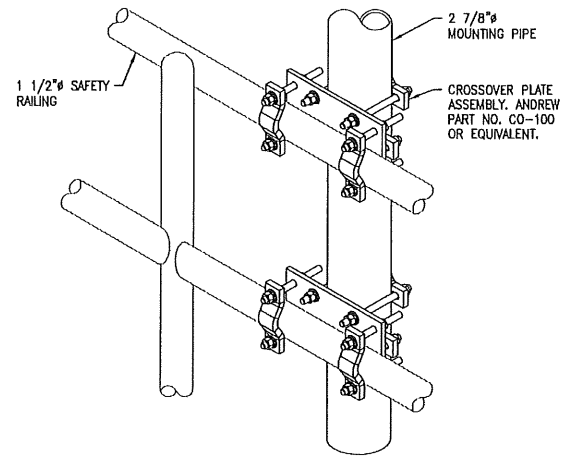
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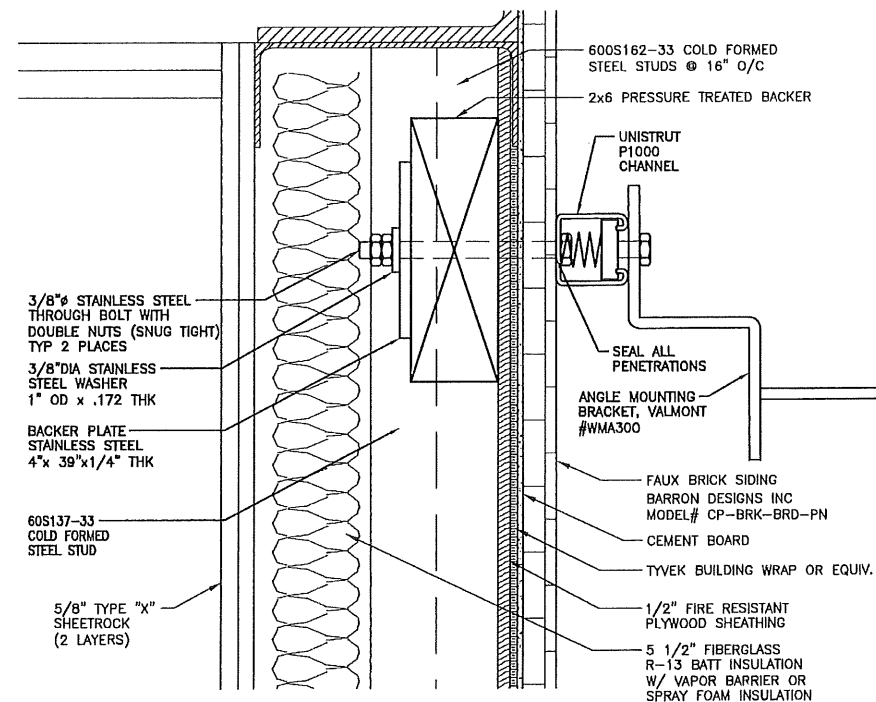
AT&T MOBILITY
FRAMINGHAM, MA 01701

EQUIPMENT SHELTER
SECTION AND DETAILS

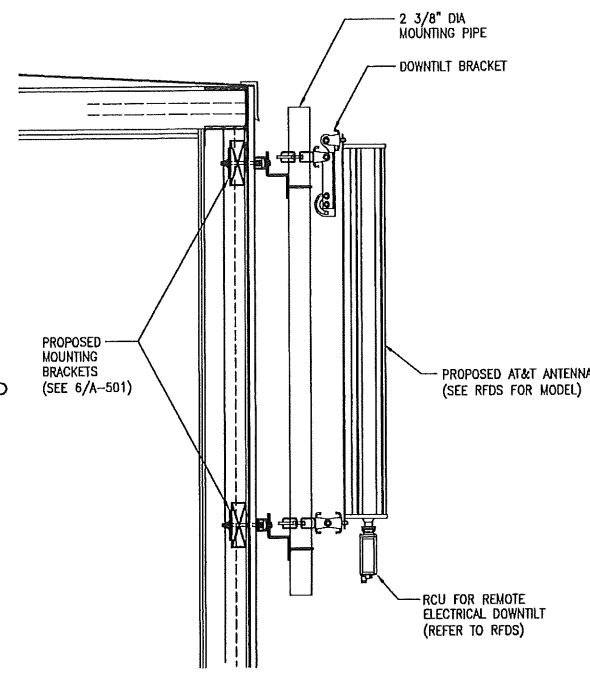
JOB NUMBER	DRAWING NUMBER	REV
SAI 11.43	A-301	3



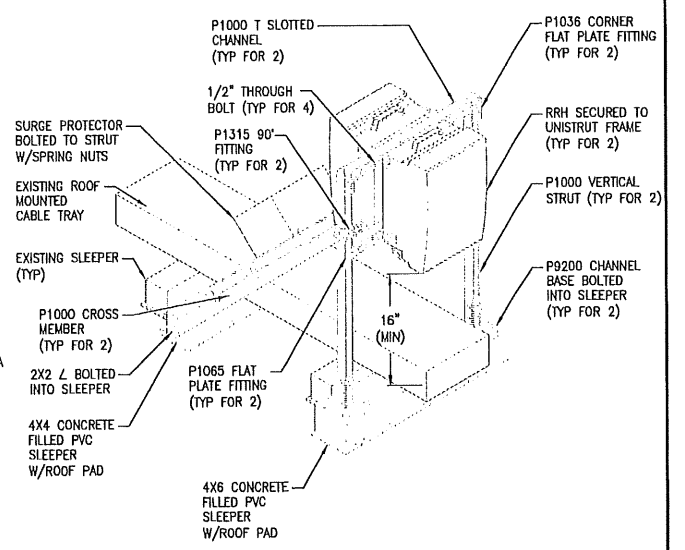
8 ANTENNA BRACKET MOUNTING DETAIL
SCALE: NONE



6 ANTENNA WALL MOUNTING DETAIL
SCALE: 6" = 1'-0" 0 1' 2' 3' 6"

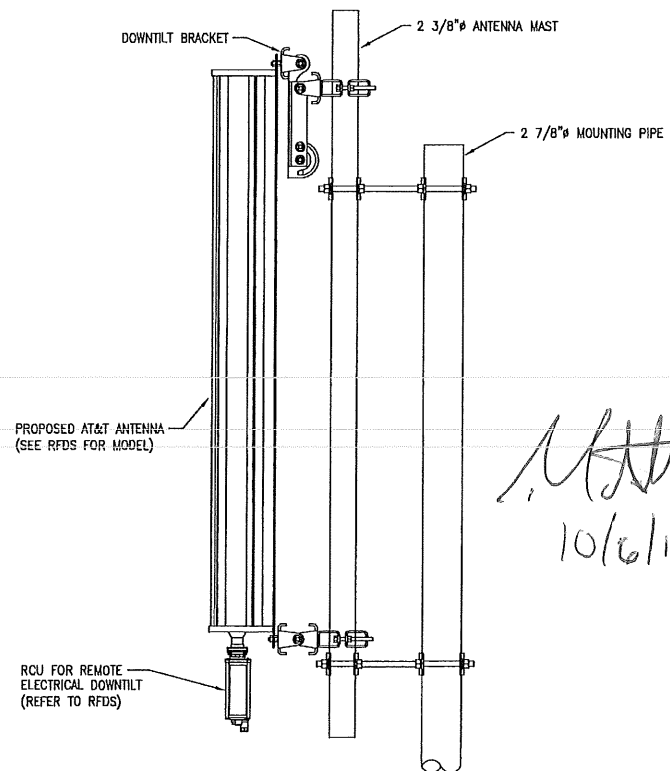


4 ANTENNA WALL MOUNTING DETAIL
SCALE: 1" = 1'-0" 0 6" 1' 2'

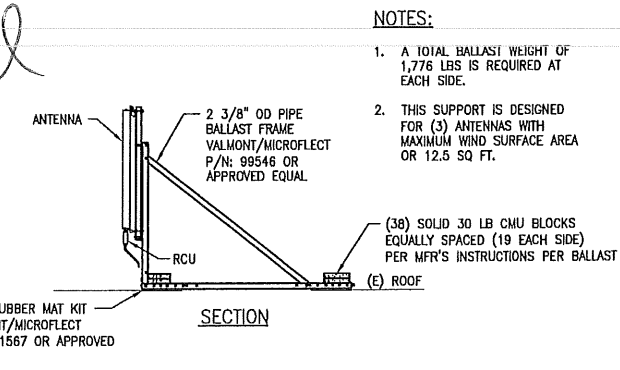
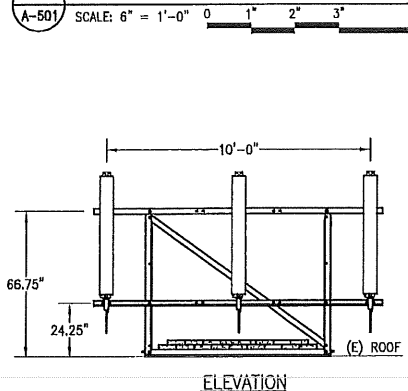


2 RRH AND SURGE PROTECTOR MOUNTING DETAIL
SCALE: 1" = 1'-0" 0 6" 1' 2'

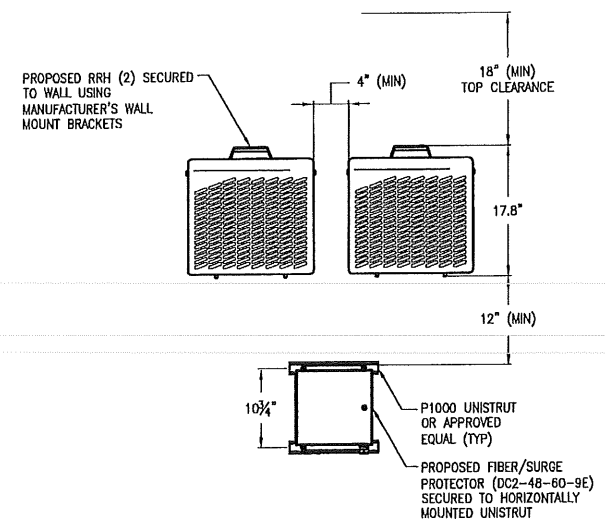
NOTES:
1. ALL HARDWARE TO BE HOT-DIPPED GALVANIZED.
2. ALL EQUIPMENT TO BE GROUNDED AND MADE WEATHER-TIGHT PER MANUFACTURER'S RECOMMENDATIONS.
3. ATTACHMENT TO CONCRETE FILLED SLEEPERS SHALL BE AS RECOMMENDED BY MANUFACTURER REGARDING EMBEDMENT DEPTH, METHOD AND BOLT TYPE.



7 ANTENNA MOUNTING DETAIL
SCALE: NONE

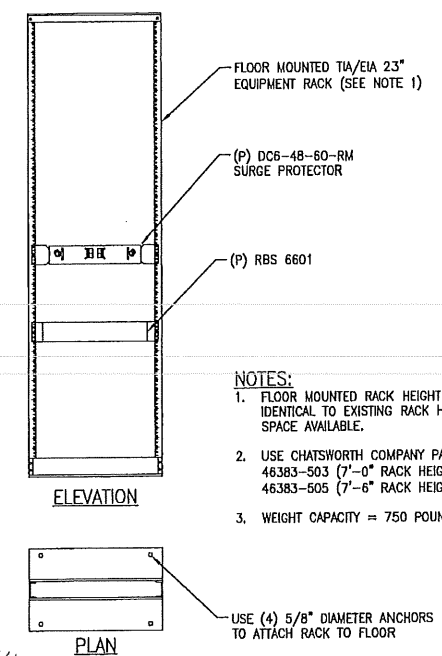


5 ROOFTOP BALLAST FRAME
SCALE: NONE



3 RRH AND SURGE PROTECTOR MOUNTING
SCALE: 1" = 1'-0" 0 6" 1' 2'

NOTES:
1. ALL HARDWARE TO BE HOT-DIPPED GALVANIZED.
2. ALL EQUIPMENT TO BE GROUNDED AND MADE WEATHER-TIGHT PER MANUFACTURER'S RECOMMENDATIONS.
3. ATTACHMENT TO WALL SHALL BE AS RECOMMENDED BY MANUFACTURER REGARDING EMBEDMENT DEPTH, METHOD AND BOLT TYPE.



23" FLOOR MOUNTED RACK
SCALE: 3/4" = 1'-0" 0 1' 2' 3'

NOTES:
1. FLOOR MOUNTED RACK HEIGHT SHALL BE IDENTICAL TO EXISTING RACK HEIGHT IF SPACE AVAILABLE.
2. USE CHATSWORTH COMPANY PART NUMBERS: 46383-503 (7'-0" RACK HEIGHT) 46383-505 (7'-6" RACK HEIGHT)
3. WEIGHT CAPACITY = 750 POUNDS

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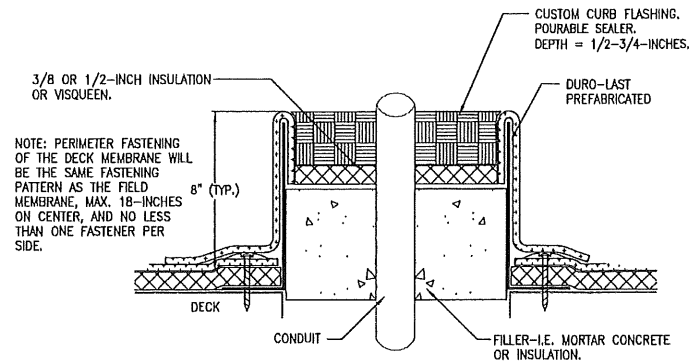
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NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS INDICATED		DESIGNED BY: MJS	DRAWN BY: TDC		

STATE OF MASSACHUSETTS
JAMES P. STROCKE
-2674-
LICENSED PROFESSIONAL ENGINEER
James P. Strocker

AT&T MOBILITY
FRAMINGHAM, MA 01701

CONSTRUCTION DETAILS -- SHEET 1 OF 2

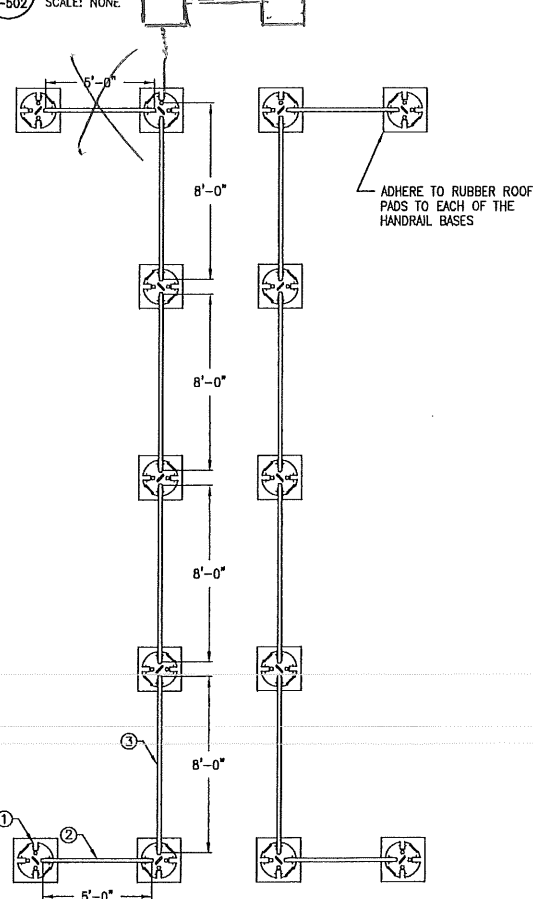
JOB NUMBER	DRAWING NUMBER	REV
SAI 11.43	A-501	3



NOTE: PERIMETER FASTENING OF THE DECK MEMBRANE WILL BE THE SAME FASTENING PATTERN AS THE FIELD MEMBRANE, MAX. 18-INCHES ON CENTER, AND NO LESS THAN ONE FASTENER PER SIDE.

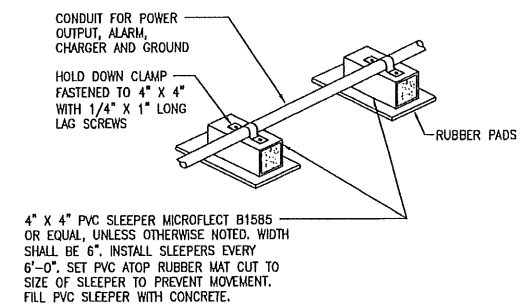
NOTE: CONTRACTOR SHALL UTILIZE ROOFING CONTRACTOR APPROVED BY LANDLORD.

8 TYPICAL POCKET DETAIL
SCALE: NONE

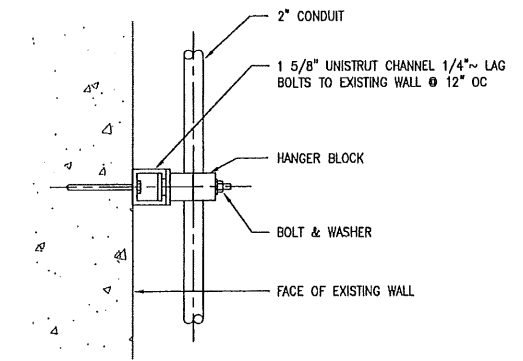


BILL OF MATERIALS			
PART NO.	QTY	DESCRIPTION	
1	200-8	14	KEEGUARD CONTRACTOR BASE
2	KGC5-8	4	5 FT SECTION KEEGUARD CONTRACTOR
3	KGC8-8	8	8 FT SECTION KEEGUARD CONTRACTOR

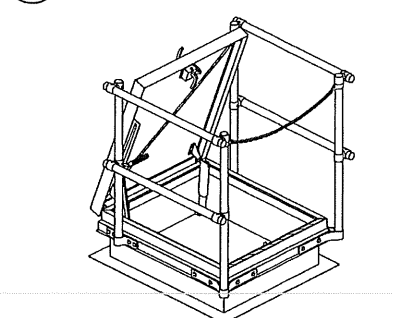
7 SAFETY GUARD DETAIL
SCALE: 1/4\"/>



6 CONDUIT ON SLEEPER DETAIL
SCALE: NONE

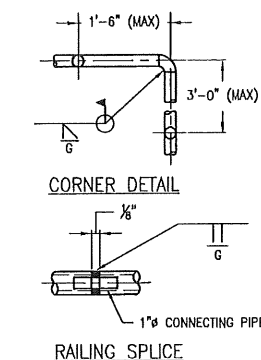


5 CONDUIT SUPPORT AT WALL
SCALE: NONE

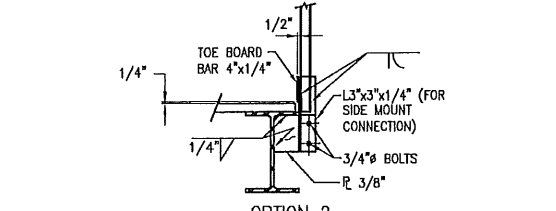
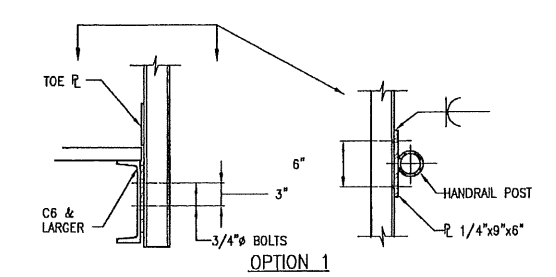


NOTES:
 PIPE: 1 1/4\"/>

4 HATCH RAILING DETAIL
SCALE: NONE

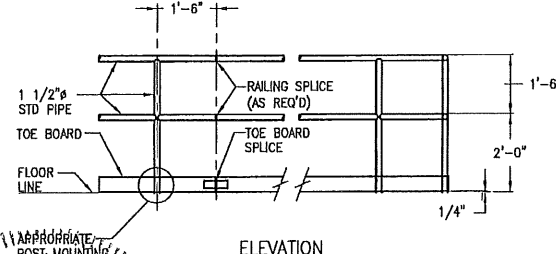
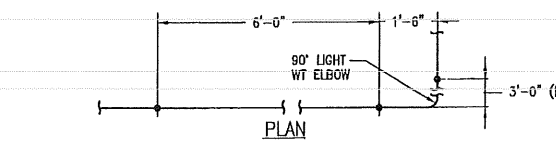


3 MISCELLANEOUS HANDRAIL DETAIL
SCALE: NONE



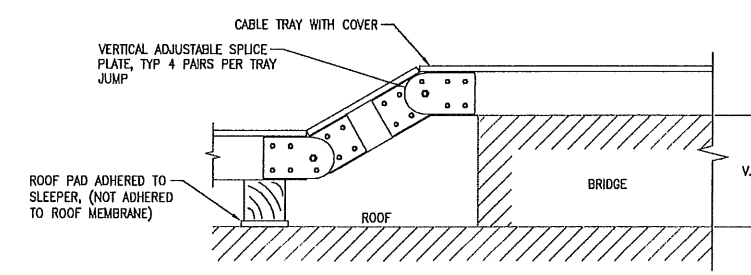
2 HANDRAIL POST CONNECTIONS TO STEEL
SCALE: NONE

NOTE: ALL EXPOSED CORNERS MUST HAVE A 2\"/>

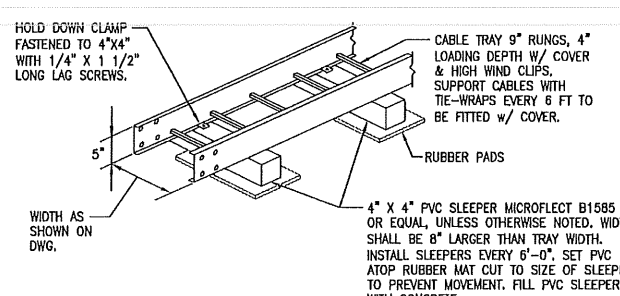


1 FIXED HANDRAIL
SCALE: NONE

Handwritten notes:
 N/A
 10/6/12



10 ROOF MOUNTED TRAY RISER
SCALE: NONE



OPTION: USE MICROFLECT ROOF MOUNTED BRIDGE KITS CONSISTING OF SLEEPER AND COVER.

9 ROOF MOUNTED CABLE TRAY
SCALE: NONE

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SAI communications
 22 KEEWAYDIN DRIVE
 SALEM, NH 03079

SITE NUMBER: ME2978
 SITE NAME: PORTLAN - BAXTER BLVD
 500 WASHINGTON AVE
 PORTLAND, ME 04103
 CUMBERLAND COUNTY

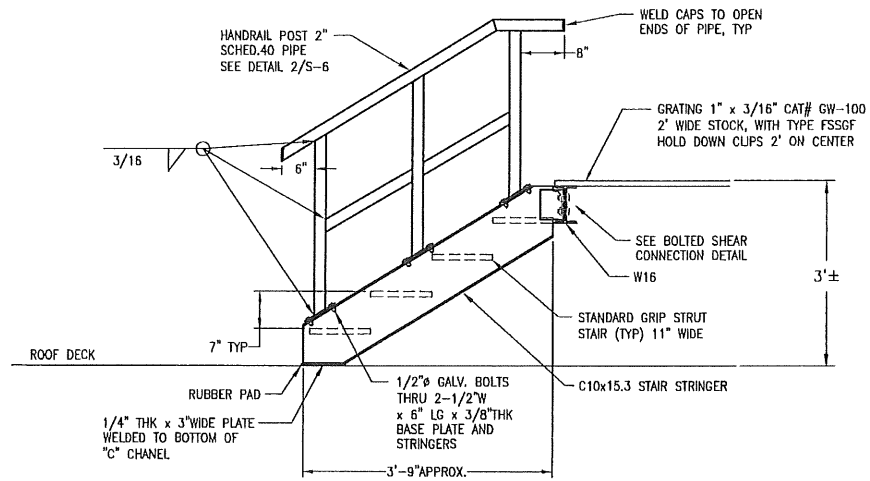
at&t Mobility
 550 COCHITUATE ROAD
 SUITES 13 & 14
 FRAMINGHAM, MA 01701

NO.	DATE	REVISIONS	BY	CHK	APP'D
3	10/10/11	REISSUED FOR CONSTRUCTION	TDC	SRS	JPS
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1	09/19/11	CHG SHELTER DESIGN	TDC	SRS	JPS
0	08/01/11	ISSUED FOR REVIEW	TDC	SRS	JPS

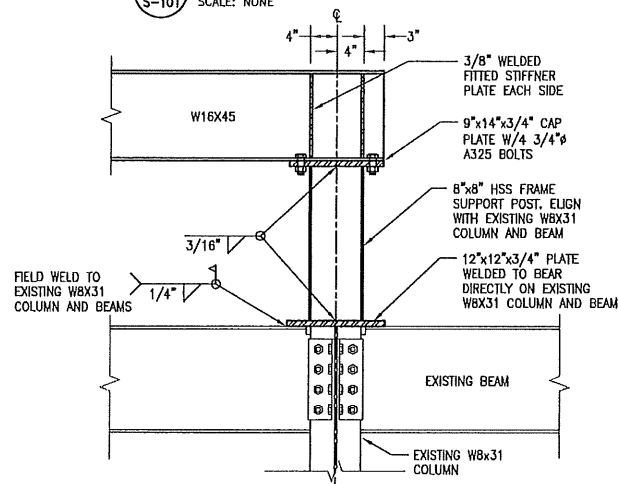
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STATE OF MAINE
 JAMES R. STROKE
 2674
 LICENSED PROFESSIONAL ENGINEER

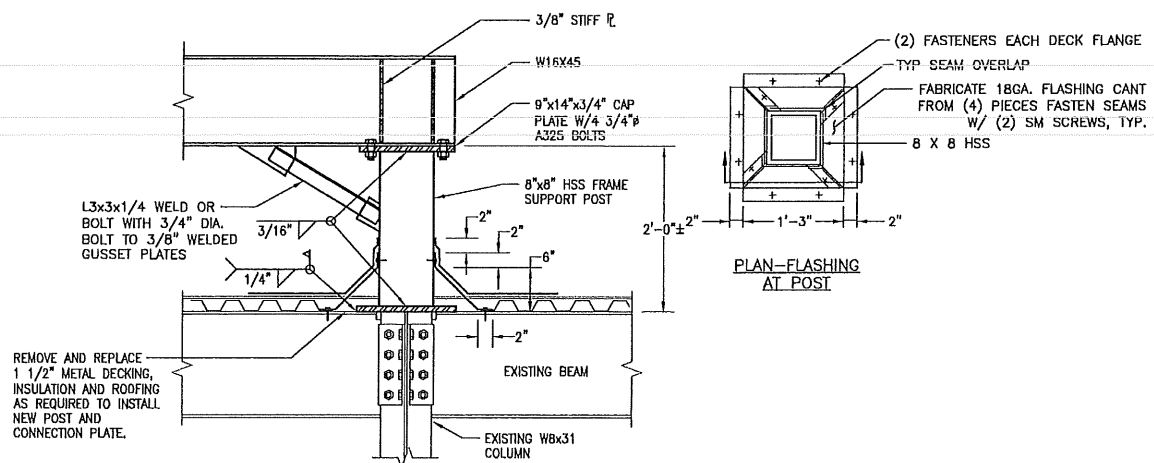
AT&T MOBILITY FRAMINGHAM, MA 01701		
CONSTRUCTION DETAILS - SHEET 2 OF 2		
JOB NUMBER	DRAWING NUMBER	REV
SAI 11.43	A-502	3



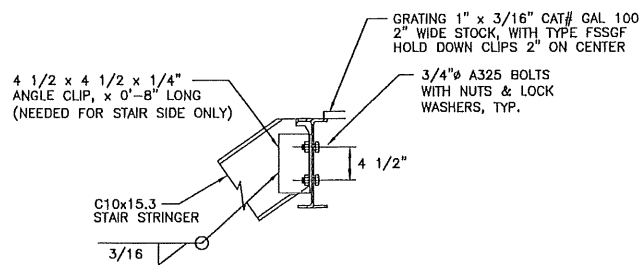
7 STEEL STAIR DETAIL
S-101 SCALE: NONE



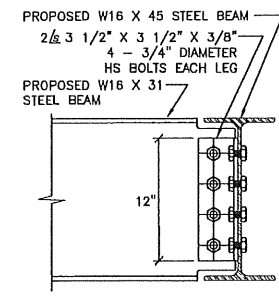
6 POST CONNECTION DETAIL
S-101 SCALE: NONE



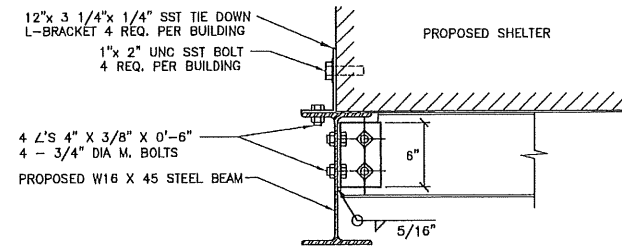
5 FLASHING DETAIL AT ROOF PENETRATION
S-101 SCALE: NONE



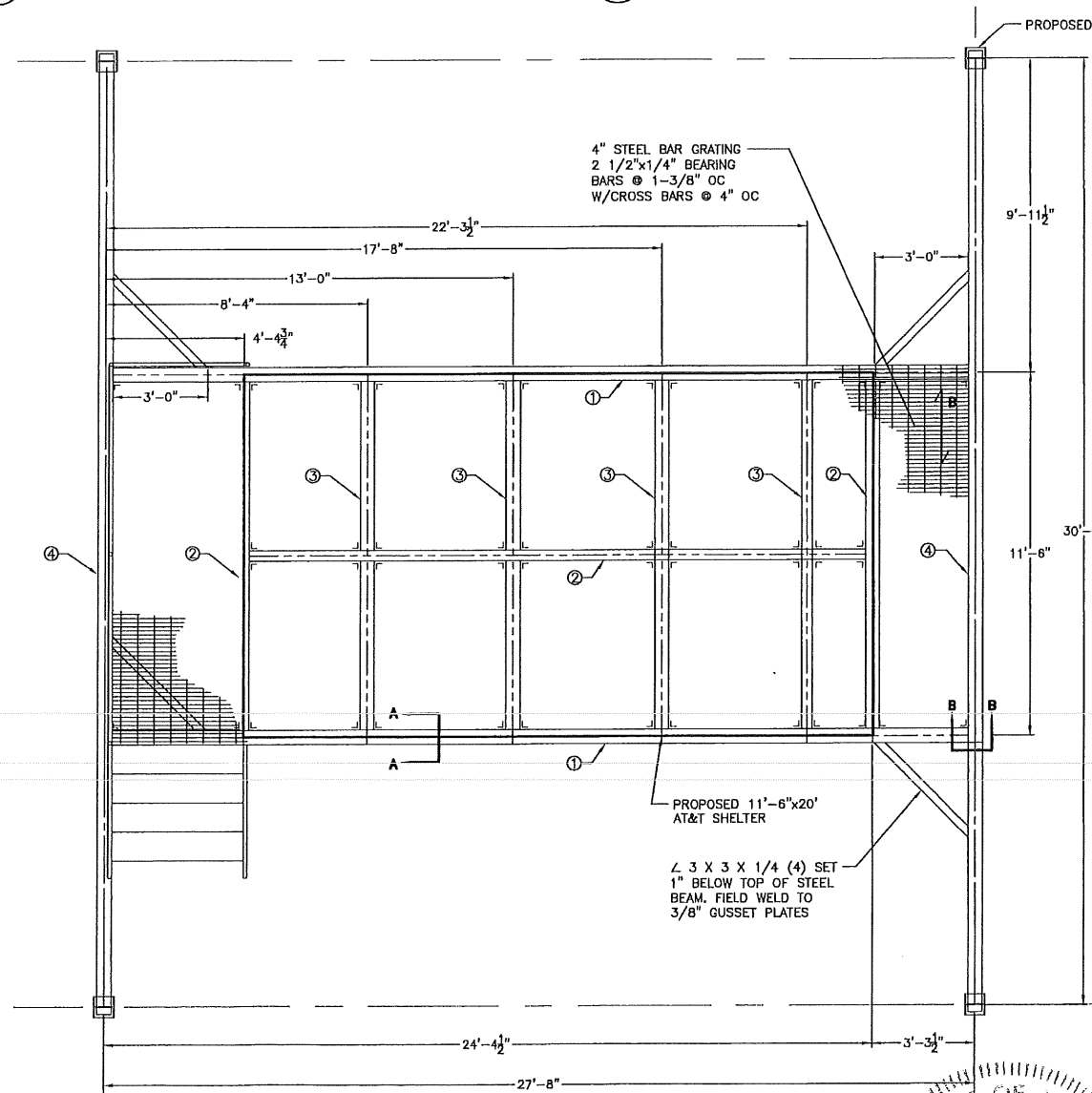
4 BOLTED SHEAR CONNECTION
S-101 SCALE: NONE



3 SECTION B-B
S-101 SCALE: NONE



2 SECTION A-A
S-101 SCALE: NONE



1 SHELTER ROOF FRAME PLAN
S-101 SCALE: 3/8" = 1'-0" 0 1' 2' 4'

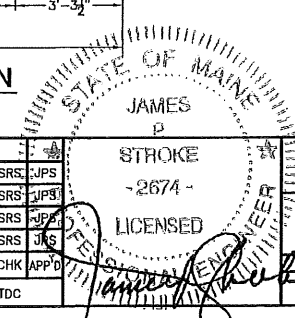
NA 12
10/6/12

NOTE:
1. FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION

① PROPOSED W16 X 31
② PROPOSED W12 X 26
③ PROPOSED W8 X 21
④ PROPOSED W16 X 45
--- C.I. BEAM

2. DIMENSION SHALL BE FIELD VERIFIED.

3. ALL STEEL AND CONNECTIONS EXPOSED TO THE WEATHER TO BE HOT-DIPPED GALVANIZED.



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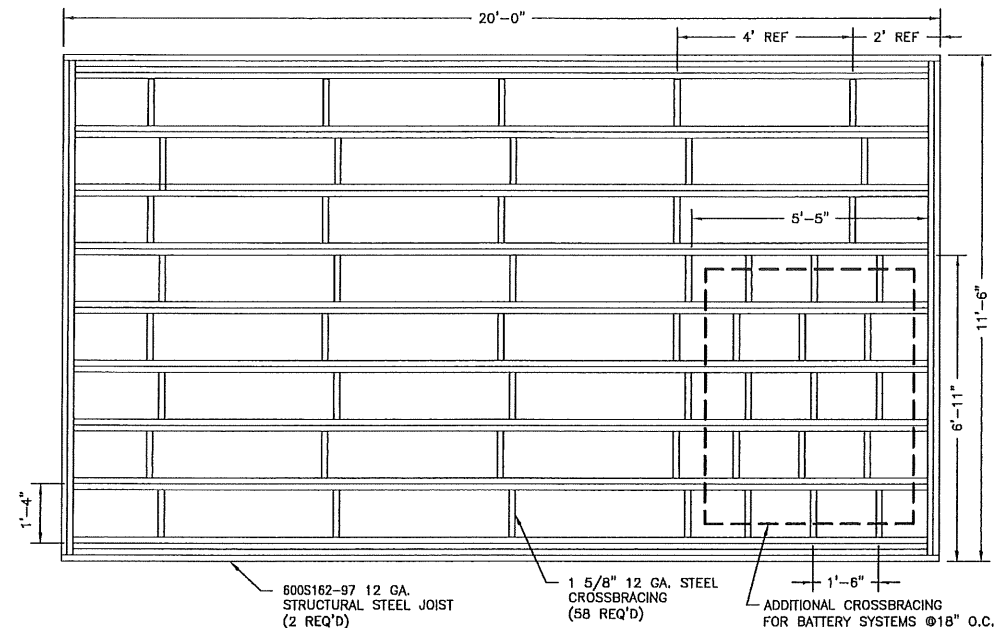
at&t Mobility
550 COCHITUATE ROAD
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FRAMINGHAM, MA 01701

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NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS INDICATED			DESIGNED BY: MJS	DRAWN BY: TDC	

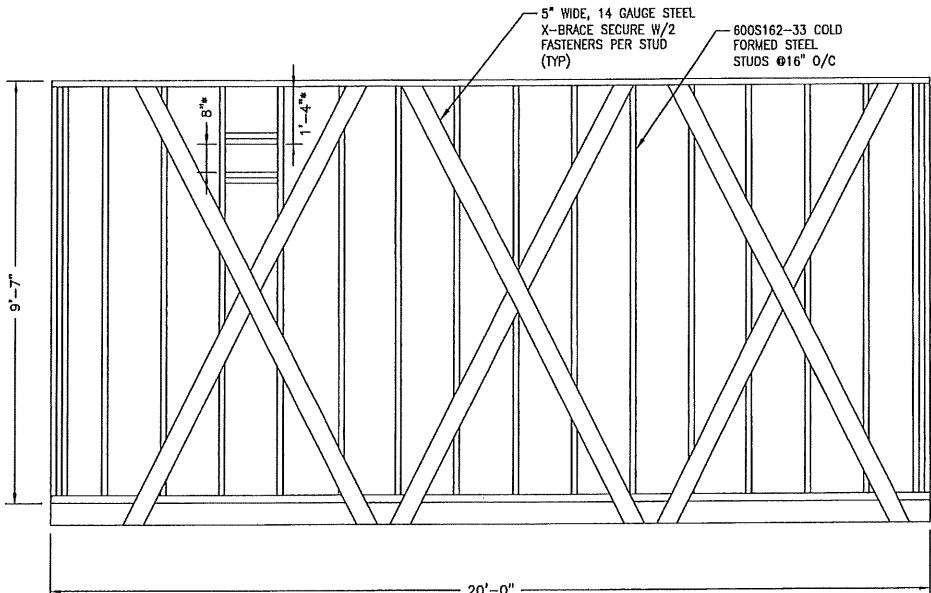
AT&T MOBILITY
FRAMINGHAM, MA 01701

EQUIPMENT SHELTER FRAME PLAN & DETAILS

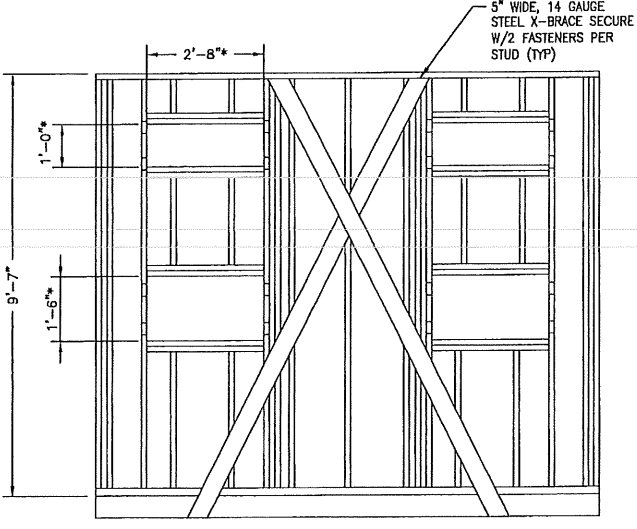
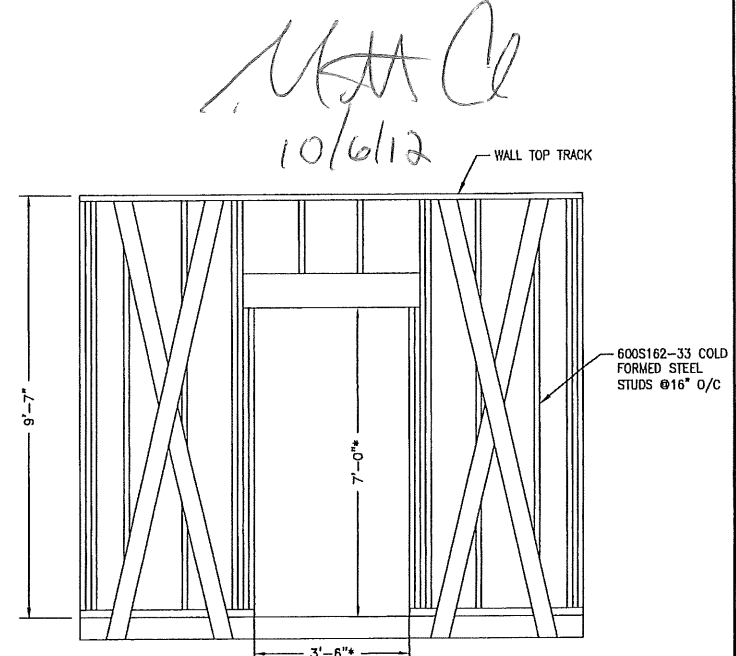
JOB NUMBER	DRAWING NUMBER	REV
SAI 11.43	S-101	3



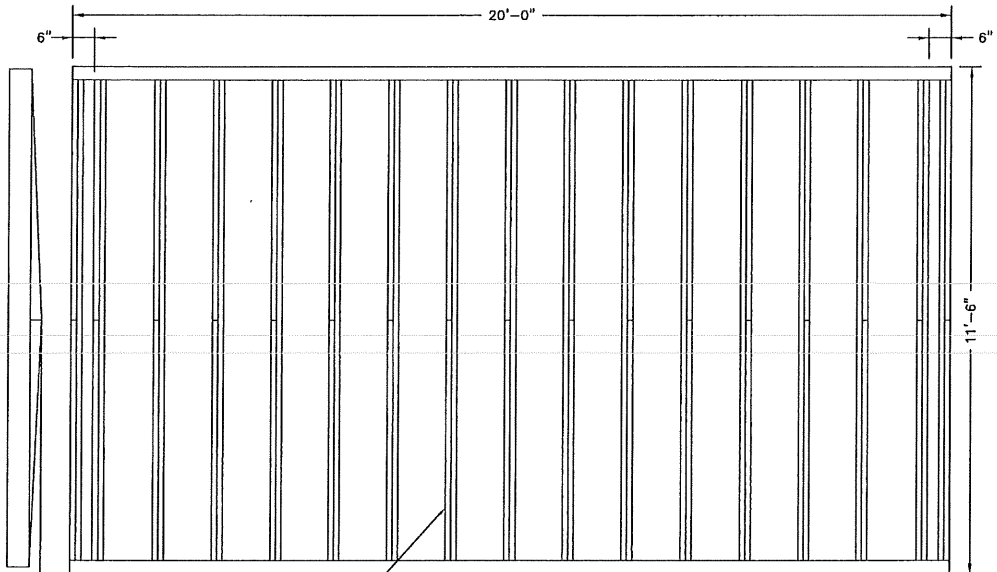
4 FLOOR FRAMING
S-501 SCALE: 1/2" = 1'-0" 0 1' 2' 4'



2 FRAME DETAILS
S-501 SCALE: 1/2" = 1'-0" 0 1' 2' 4'



1 X-BRACING FRAME DETAILS
S-501 SCALE: 1/2" = 1'-0" 0 1' 2' 4'



3 ROOF FRAMING
S-501 SCALE: 1/2" = 1'-0" 0 1' 2' 4'

1000S250-43 COLD FORMED STEEL CEILING JOISTS @ 16" O.C. FASTEN 600S162-33 SLOPED RAFTERS TO EACH CEILING JOIST W/2 ROWS OF #10 SCREWS @ 12" O.C.

NOTE:
1) ROOF PITCH (1/2" PER 1'-0") UNLESS OTHERWISE NOTED ON CROSS SECTION

NOTE: CONTRACTOR SHALL VERIFY ALL ROUGH OPENING DIMENSIONS FOR EQUIPMENT PRIOR TO FRAMING.

Professional Engineer Seal for James P. Stroke, License No. 2674, State of Massachusetts.

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CUMBERLAND COUNTY

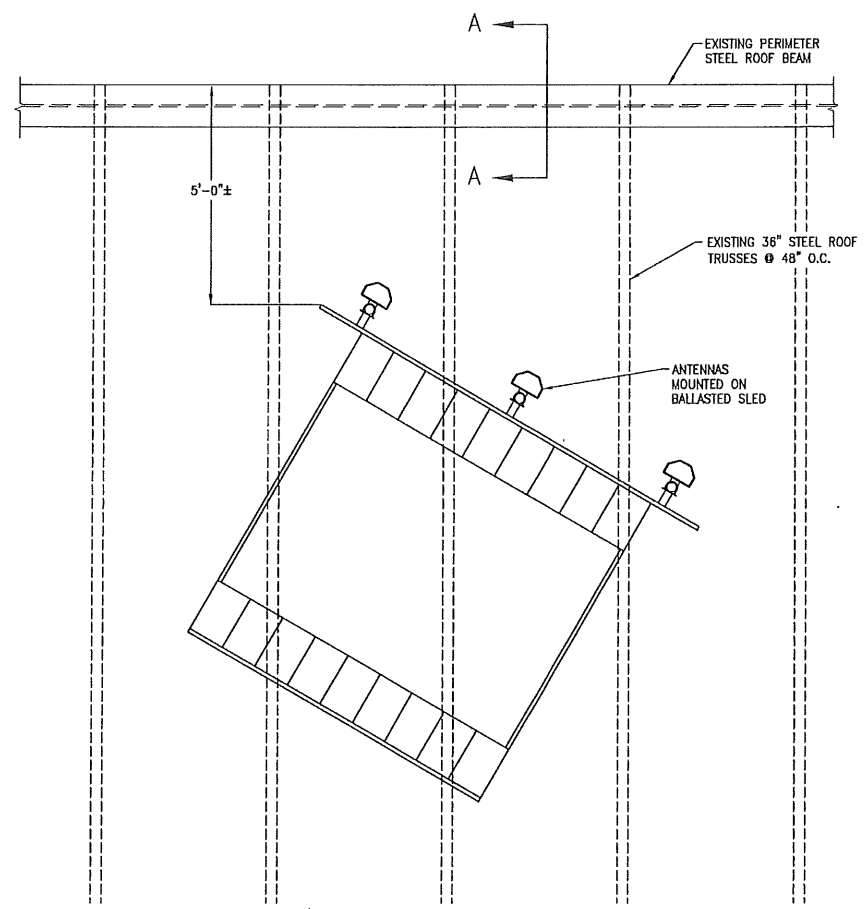
at&t Mobility
550 COCHITUATE ROAD
SUITES 13 & 14
FRAMINGHAM, MA 01701

NO.	DATE	REVISIONS	BY	CHK	APP'D
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1	09/19/11	CHG SHELTER DESIGN	TDC	SRS	UPS
0	08/01/11	ISSUED FOR REVIEW	TDC	SRS	UPS

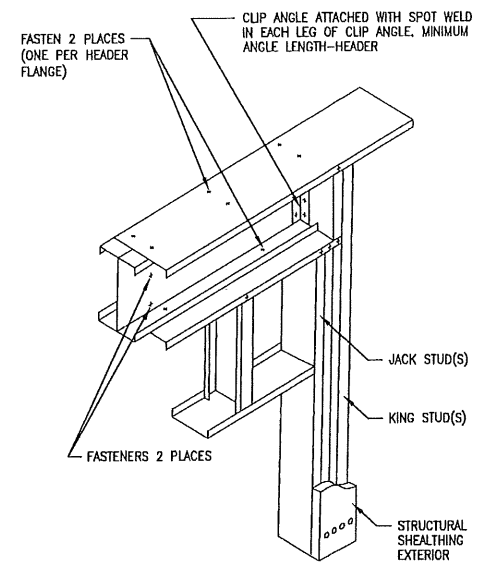
DESIGNED BY: MJS DRAWN BY: TDC

JOB NUMBER	DRAWING NUMBER	REV
SAI 11.43	S-501	3

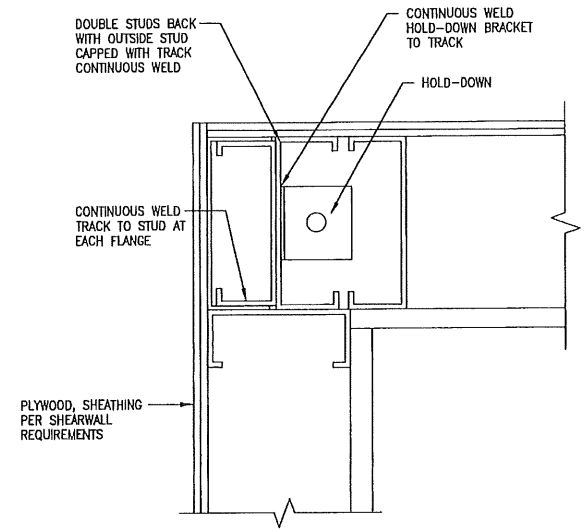
AT&T MOBILITY
FRAMINGHAM, MA 01701
EQUIPMENT SHELTER
FRAMING DETAILS - SHEET 1 OF 2



6
S-502 SCALE: NONE
ROOF FRAMING PLAN AT BALLASTED ANTENNA SUPPORTING SLED

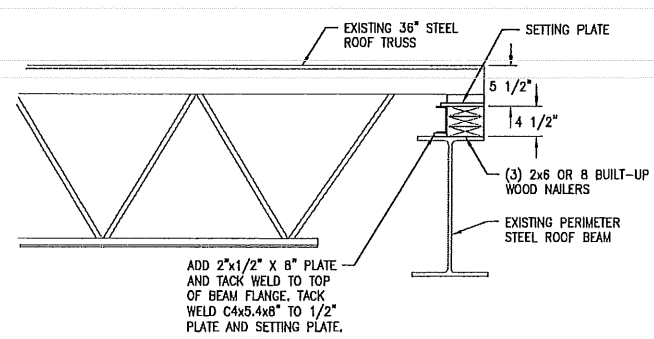


4
S-502 SCALE: NONE
HEADER DETAIL

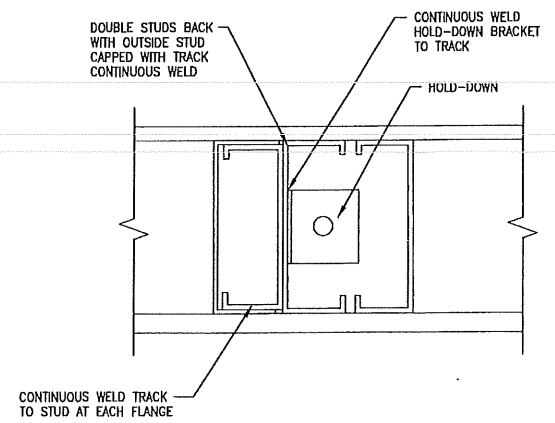


2
S-502 SCALE: NONE
CORNER STUD HOLD-DOWN DETAIL

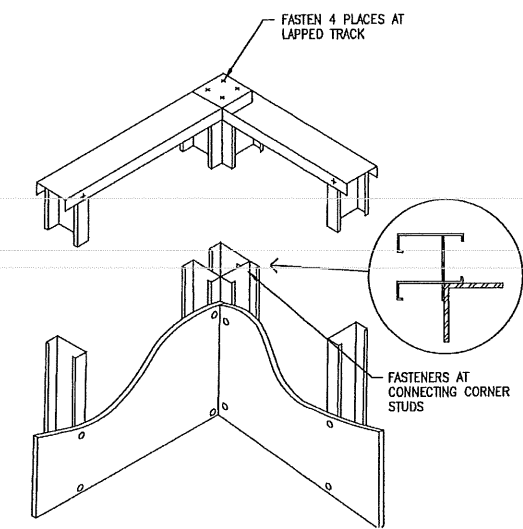
MA
10/6/12



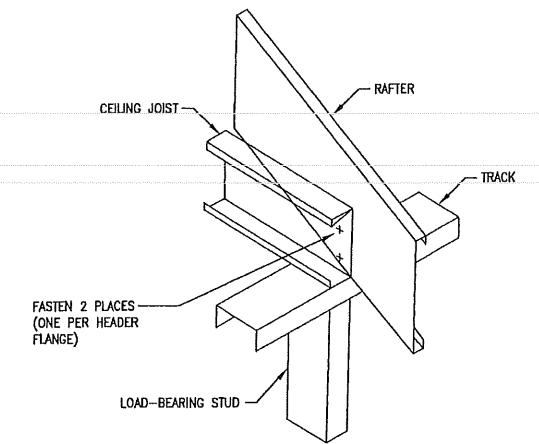
SECTION A-A
(TYPICAL AT TRUSS END BEARING CONNECTION UNDER ALL TRUSSES SUPPORTING ANTENNA BALLASTED MOUNTS)



5
S-502 SCALE: NONE
TRIPLE STUD DETAIL



3
S-502 SCALE: NONE
CORNER FRAMING DETAIL



1
S-502 SCALE: NONE
JOIST TO RAFTER DETAIL

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at&t Mobility
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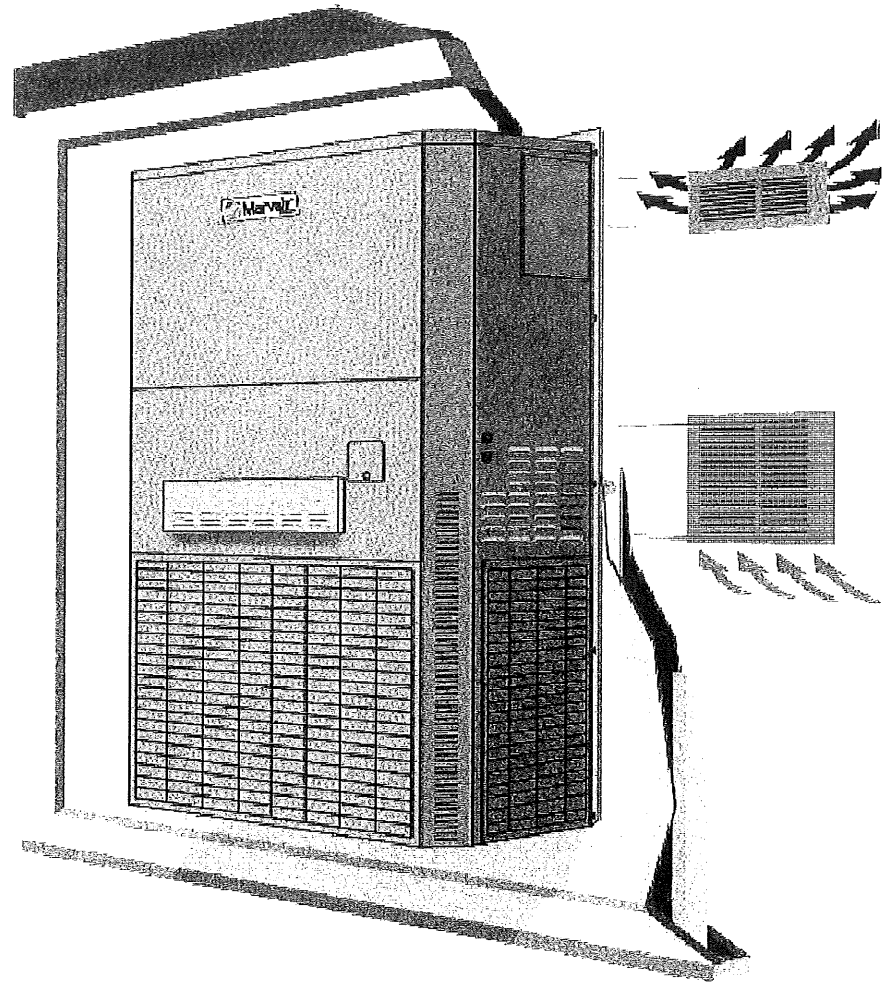
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SCALE: DESIGNED BY: MJS DRAWN BY: TDC

STATE OF MAINE
JAMES P. STROKE
-2674-
LICENSED PROFESSIONAL ENGINEER

AT&T MOBILITY
FRAMINGHAM, MA 01701
EQUIPMENT SHELTER
FRAMING DETAILS - SHEET 2 OF 2

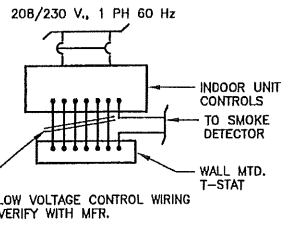
JOB NUMBER	DRAWING NUMBER	REV
SAI 11.43	S-502	3



**AT&T HVAC EQUIPMENT SCHEDULE
THREE PHASE**

MANUFACTURER: MARVAIR
 MODEL: AVP60-ACA
 SYMBOL: AHU-3
 COOLING (BTU/HR): 56,000
 NOMINAL TONS: 5
 VOLTAGE: 208/230-1ϕ-60HZ
 CIRCUIT BREAKER: 60A
 WEIGHT: 565 LBS

FILTERS:
 MANUFACTURER: MARVAIR
 SIZE: 22" X 36 1/2" X 2"
 PART NO: AVP60

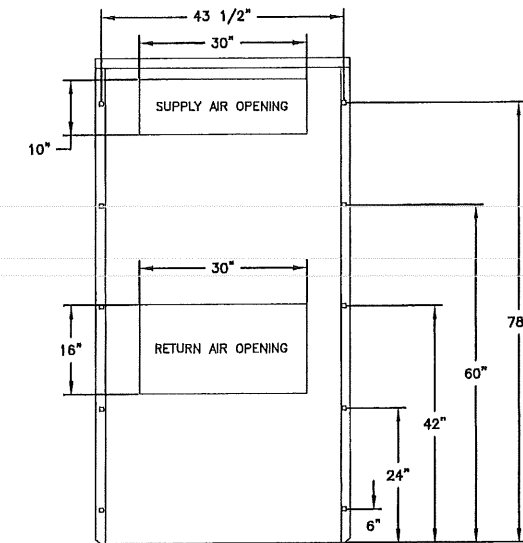
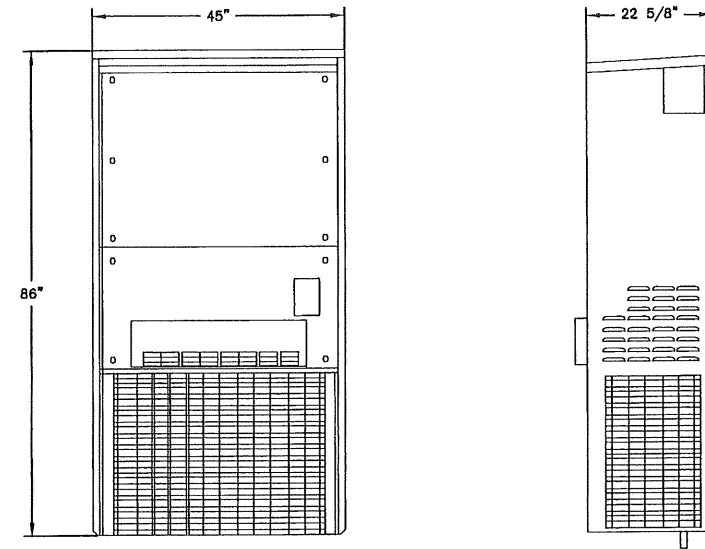


NOTE:
 SMOKE DETECTOR IS TO SHUT DOWN AC UNIT WHEN ACTIVATED. REFER TO ELECTRICAL DRAWINGS FOR LOCATION OF SMOKE DETECTOR.

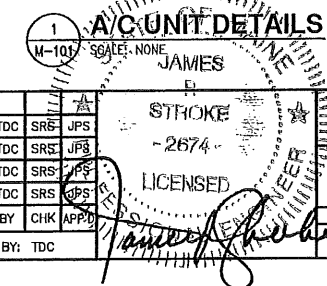
2 A/C UNIT CONTROLS
 M-101 SCALE: NONE

HVAC GENERAL NOTES

1. INSULATE SENSORS FROM WALL. SEAL ALL HOLES FOR WIRING WITH SILICONE SEALER TO PREVENT DRAFTS FROM AFFECTING THE SENSORS.
2. PIPING TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
3. INSULATE CONDENSATE DRAIN LINE WITH 1/2-INCH THICK FIBERGLASS PIPE INSULATION WITH ALL SERVICE JACKET. TAPE ALL JOINTS.
4. A/C UNITS SHALL BE CONTROLLED BY EXISTING CONTROL PANEL.
5. CONTRACTOR TO FABRICATE RETURN AND SUPPLY AIR PLENUMS FOR AIR HANDLING EQUIPMENT.

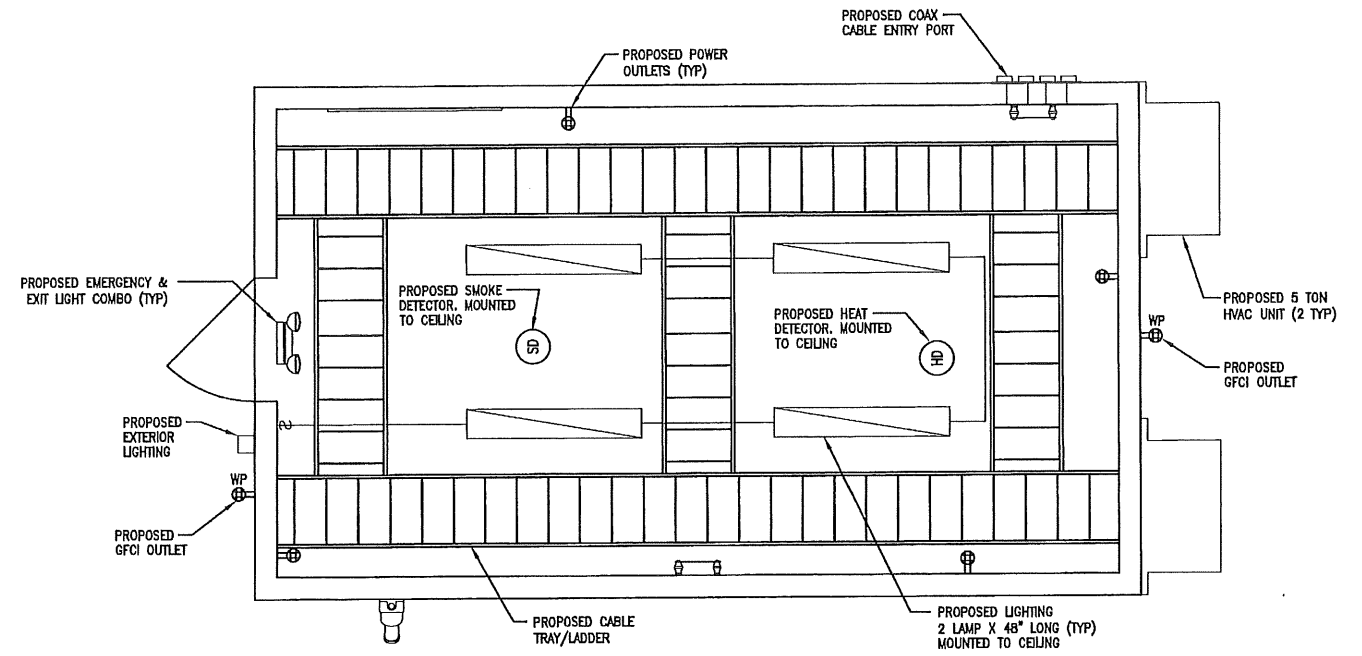


AA CL
10/6/12



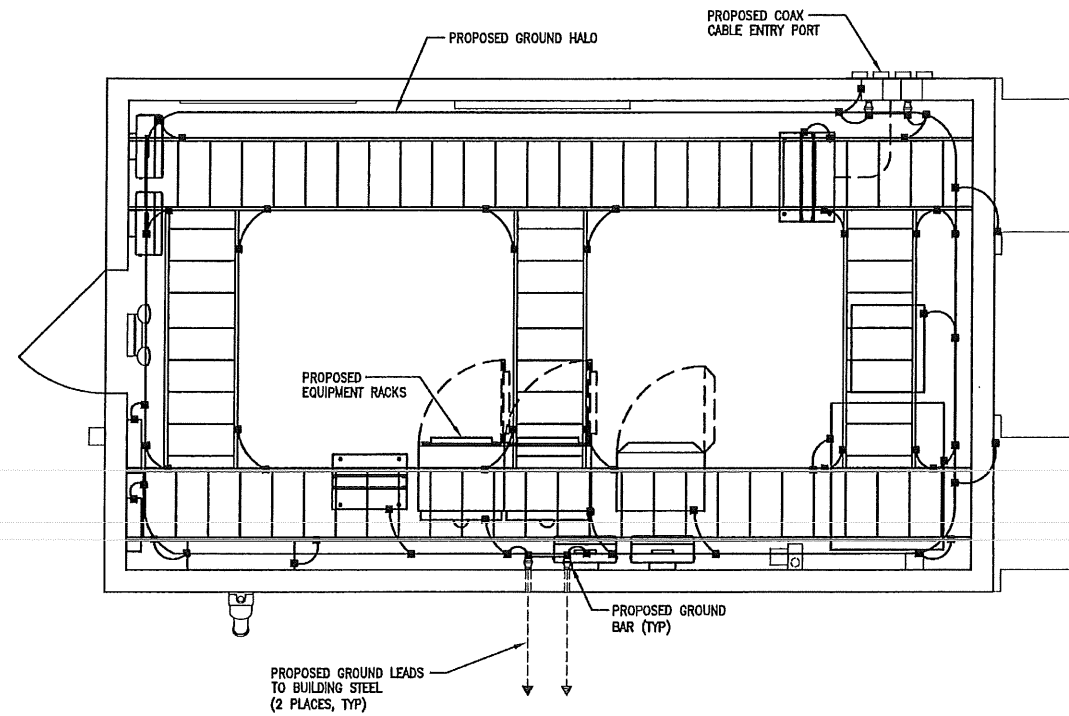
1 A/C UNIT DETAILS
 M-101 SCALE: NONE

<p>TURNING MILL CONSULTANTS, INC. DEVELOPERS, ENGINEERS AND CONSTRUCTION MANAGERS 68 TUPPER ROAD, UNIT 3 PO BOX 1169, SANDWICH, MA 02563 TEL: (508) 898-4383 - FAX: (508) 898-4249 www.turningmillconsultants.com</p>	<p>SAI communications 22 KEEWAYDIN DRIVE SALEM, NH 03079</p>	<p>SITE NUMBER: ME2978 SITE NAME: PORTLAN - BAXTER BLVD 500 WASHINGTON AVE PORTLAND, ME 04103 CUMBERLAND COUNTY</p>	<p>at&t Mobility 550 COCHITUATE ROAD SUITES 13 & 14 FRAMINGHAM, MA 01701</p>	3 10/10/11 REISSUED FOR CONSTRUCTION TDC SRS JPS 2 10/05/11 REISSUED FOR REVIEW TDC SRS JPS 1 09/19/11 CHG SHELTER DESIGN TDC SRS JPS 0 08/01/11 ISSUED FOR REVIEW TDC SRS JPS	NO. DATE REVISIONS BY CHK APPD	SCALE: AS INDICATED DESIGNED BY: MJS DRAWN BY: TDC	AT&T MOBILITY FRAMINGHAM, MA 01701 HVAC DETAILS	JOB NUMBER: SAI 11.43 DRAWING NUMBER: M-101 REV: 3
				<p>REVISIONS</p>		AT&T MOBILITY FRAMINGHAM, MA 01701 HVAC DETAILS	JOB NUMBER: SAI 11.43 DRAWING NUMBER: M-101 REV: 3	



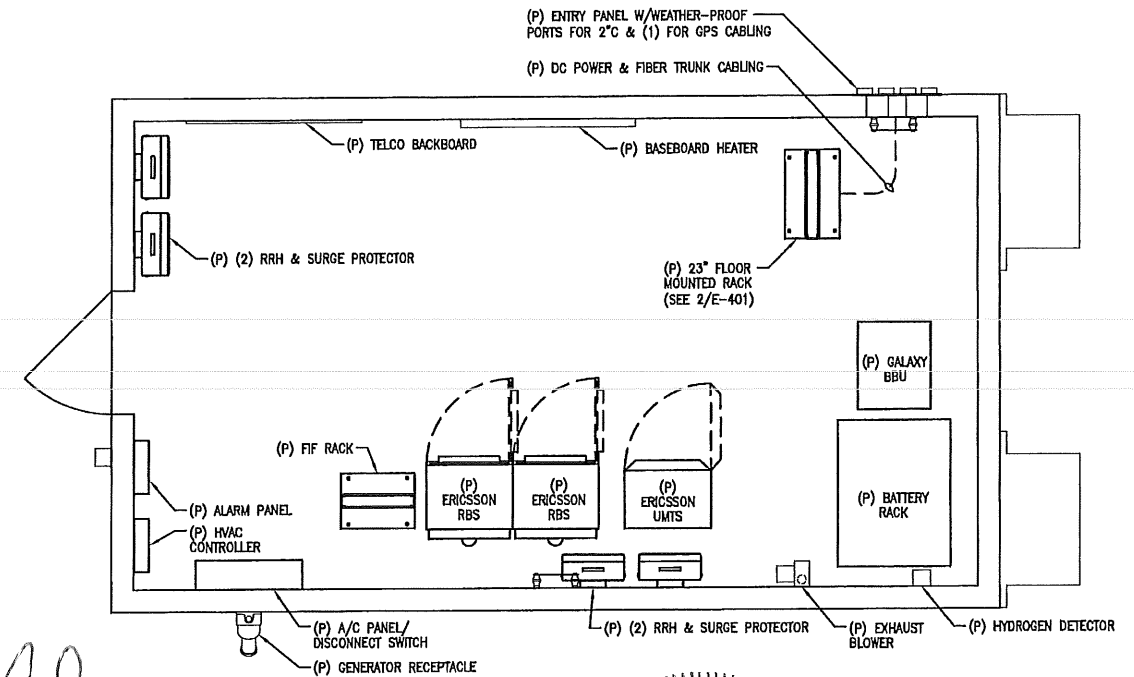
- NOTES:
1. PROVIDE BRANCH-CIRCUIT WIRING PER CODE.
 2. SMOKE AND HEAT DETECTORS TO HAVE LOCAL ALARM AND CONTACTS WIRED INTO ALARM SYSTEM.

2 LIGHTING/POWER PLAN
E-401 SCALE: 1/2" = 1'-0" 0 1' 2' 4'



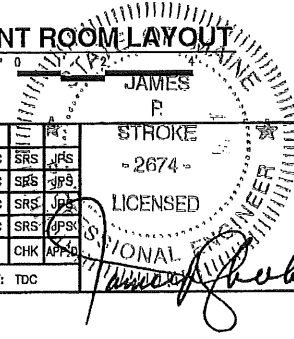
3 GROUND SCHEMATIC DIAGRAM
E-401 SCALE: NONE

- NOTE:
1. MASTER GROUND BAR AND EXTERNAL GROUND BAR TO BE INDIVIDUALLY AND SEPARATELY CAD WELDED TO GROUND ROD DIRECTLY BELOW BUSS BAR'S LOCATION.



1 EQUIPMENT ROOM LAYOUT
E-401 SCALE: 1/2" = 1'-0" 0 1' 2' 4'

Handwritten signature and date:
10/6/12



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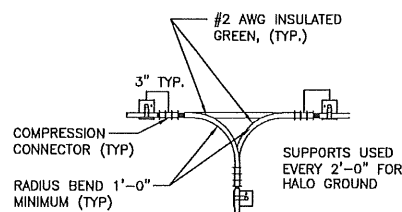
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at&t Mobility
550 COCHITUATE ROAD
SUITES 13 & 14
FRAMINGHAM, MA 01701

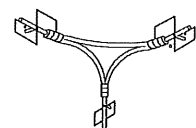
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AT&T MOBILITY FRAMINGHAM, MA 01701		
ENLARGED ELECTRICAL LAYOUTS		
JOB NUMBER	DRAWING NUMBER	REV
SAI 11.43	E-401	3

SCALE: AS INDICATED DESIGNED BY: MJS DRAWN BY: TDC

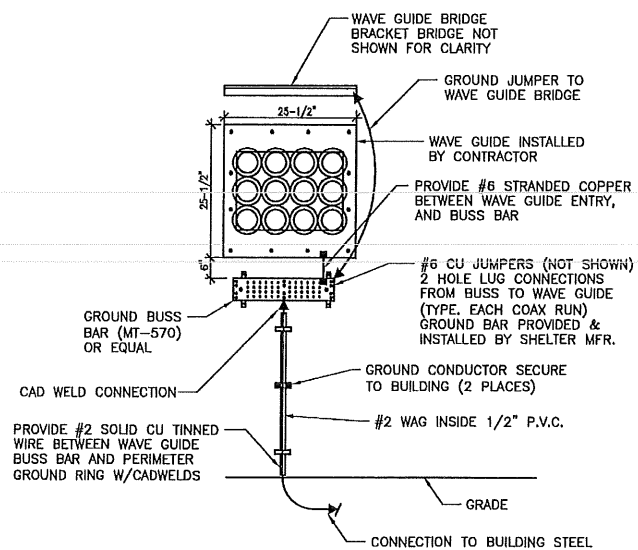


NONDIRECTIONAL HORIZONTAL SPLICE FOR CONNECTING HALO TO SUPPLEMENTARY BUS

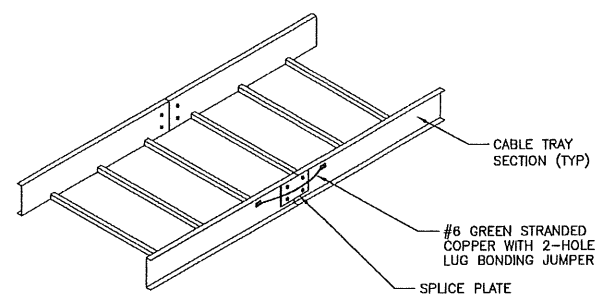


NON DIRECTIONAL VERTICAL SPLICE CORNER INSTALLATION ISOMETRIC VIEW

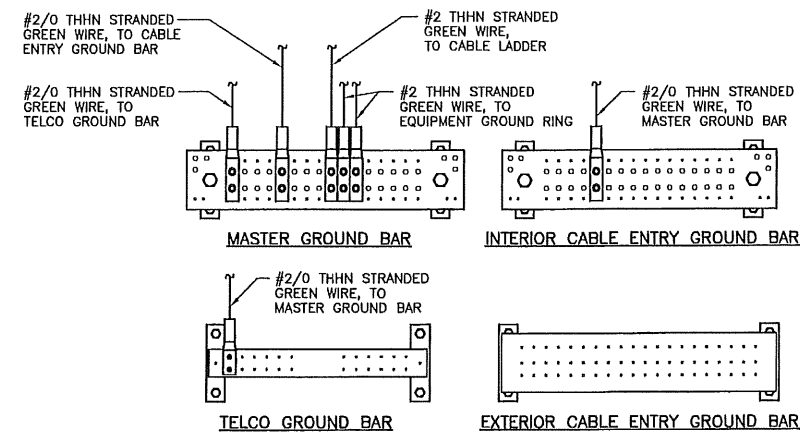
7 HALO GROUND DETAIL
E-501 SCALE: NONE



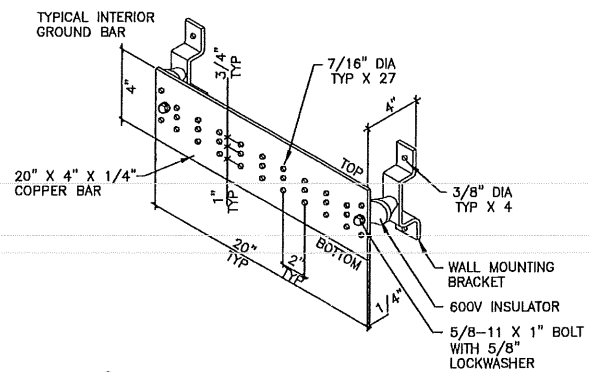
6 WAVEGUIDE GROUNDING
E-501 SCALE: NONE



5 CABLE TRAY GROUND SPLICE DETAIL
E-501 SCALE: NONE

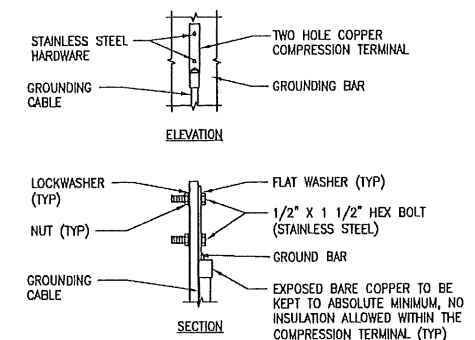


4 GROUND BAR CONNECTION DETAIL
E-501 SCALE: NONE



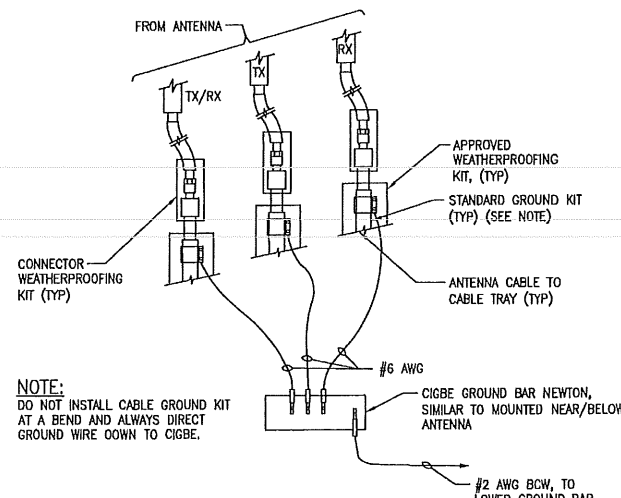
3 GROUND BAR DETAIL
E-501 SCALE: NONE

- NOTES:**
- SURFACE PREPARATION:** ALL CONNECTIONS MADE TO BARE METAL. ALL PAINTED SURFACES SHALL BE MADE BARE TO ENSURE PROPER CONTACT. NO WASHERS SHALL BE ALLOWED BETWEEN THE ITEMS BEING GROUNDED. ALL CONNECTIONS SHALL HAVE AN ANTI-OXIDANT AGENT APPLIED PRIOR TO INSTALLATION.
 - BUSS PREPARATION:** ALL COPPER BUSSES SHALL BE CLEANED, POLISHED AND AN ANTI-OXIDANT APPLIED. NO FINGERPRINTS OR DISCOLORED COPPER WILL BE PERMITTED.
 - TERMINATIONS:** ALL EQUIPMENT TERMINATIONS SHALL BE MADE WITH A BURNDY TWO HOLE COMPRESSION LUG WITH 10-24 X 3/4" LONG S.S. SCREWS, NUTS AND LOCKWASHERS. ALL BUSS TERMINATIONS MADE WITH A CAD-WELD OR BURNDY YC2C2 2 HOLE COMP. LUG OR EQUAL. ALL INTERIOR HALO ATTACHMENTS SHALL BE MADE USING A BURNDY YC2C2 COMPRESSION LUG
 - NO GROUNDING PIGTAILS SHALL BE PROVIDED FOR THE EXTERIOR GROUND BAR
 - MASTER GROUND BAR AND EXTERNAL GROUND BAR TO BE INDIVIDUALLY AND SEPARATELY CAD WELDED TO GROUND ROD DIRECTLY BELOW BUSS BAR'S LOCATION.



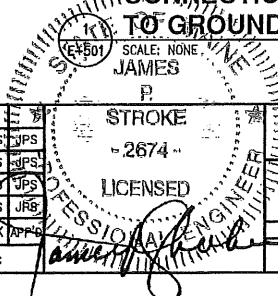
- NOTES:**
- "DOUBLING UP" OR "STACKING" OF CONNECTIONS IS NOT PERMITTED.
 - OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.

2 TYPICAL GROUND BAR MECHANICAL CONNECTION
E-501 SCALE: NONE



NOTE:
DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO CIGBE.

CONNECTION OF GROUND WIRES TO GROUNDING BAR (CIGBE)
E-501 SCALE: NONE



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SCALE: AS INDICATED DESIGNED BY: MJS DRAWN BY: TDC

AT&T MOBILITY
FRAMINGHAM, MA 01701

ELECTRICAL GROUNDING DETAILS

JOB NUMBER	DRAWING NUMBER	REV
SAI 11.43	E-501	3

ELECTRICAL SPECIFICATIONS

- THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ELECTRICAL EQUIPMENT SHOWN ON THE DRAWINGS AND HEREIN SPECIFIED. EQUIPMENT ITEMS NOT SHOWN OR CALLED FOR SUCH AS FITTINGS, BOXES, CONDUITS, HANGERS, CONDUCTORS, DEVICES, GROUNDING, ETC. SHALL ALSO BE FURNISHED AND INSTALLED TO MAKE A COMPLETE AND WORKABLE ELECTRICAL SYSTEM.
- THE WORK SHALL INCLUDE, BUT NOT NECESSARILY LIMITED TO THE FOLLOWING:
 - RECEPTACLE FOR PORTABLE GENERATOR
 - FURNISH AND INSTALL MANUAL TRANSFER SWITCH & ACCESSORIES
 - CIRCUIT BREAKERS, FUSES, DISCONNECT SWITCHES, LOAD CENTER
 - CONDUITS, RACEWAYS, BOXES, FITTINGS, HANGERS AND SLEEVES
 - FEEDER AND BRANCH CIRCUIT CONDUCTORS
 - DEVICES AND PLATES
 - LIGHTING FIXTURES AND LAMPS
 - EXIT AND EMERGENCY LIGHTING SYSTEM
 - CIRCUIT, SYSTEM AND EQUIPMENT GROUNDING
 - PERMITS, INSPECTIONS, BACK CHARGES AND TESTS
 - AUTOMATIC FIRE ALARM SYSTEM
 - SHOP DRAWINGS
 - NAME PLATES
 - AUTOMATIC TEMPERATURE CONTROL WIRING
- THE FOLLOWING WORK IS TO BE DONE BY OTHER TRADES:
 - EXCAVATION AND BACKFILL
 - CONCRETE WORK
 - ACCESS PANELS
 - CUTTING AND PATCHING
 - TELEPHONE AND COAX SYSTEM WIRING
- OBTAIN AND PAY FOR ALL REQUIRED TEST, PERMITS, INSPECTIONS, BACK CHARGES AND TEMPORARY POWER CONSTRUCTION.
- ALL WORK SHOWN ON THE PLANS IS INTENDED TO BE APPROXIMATELY CORRECT TO SCALE, BUT FIGURED DIMENSIONS AND DETAILED DRAWINGS ARE TO BE FOLLOWED IN EVERY CASE. THE DRAWINGS SHALL BE TAKEN IN A SENSE AS DIAGRAMMATIC. SUGGESTED METHODS OF RUNNING CONDUITS AND CABLES ARE SHOWN, BUT IT IS NOT INTENDED TO SHOW OFFSETS AND FITTINGS, OR EVERY STRUCTURAL DIFFICULTY THAT MAY BE ENCOUNTERED.
- MATERIAL, INSTALLATIONS AND WORKMANSHIP SHALL BE IN FULL ACCORD WITH THE MOST MODERN ELECTRICAL CONSTRUCTION REQUIREMENTS. ALL MATERIALS SHALL BE NEW, UNLESS NOTED OTHERWISE. THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, BOCA AND NATIONAL CODES.
- THE ELECTRICAL CONTRACTOR SHALL GUARANTEE HIS WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. IF ANY DEFECTS IN MATERIAL OR WORKMANSHIP OCCUR WITHIN THIS PERIOD, THEY SHALL BE CORRECTED AT NO ADDITIONAL COST TO THE OWNER.
- THE ELECTRICAL CONTRACTOR SHALL INSPECT THE SITE AND SHALL INVESTIGATE ALL CONDITIONS UNDER WHICH HIS WORK WILL BE PERFORMED. HE SHALL COORDINATE HIS WORK SO THAT IT DOES NOT INTERFERE WITH THE WORK OF OTHER TRADES AND THE GENERAL CONTRACTORS BUILDING SCHEDULE.
- FURNISH AND INSTALL ALL REQUIRED CIRCUIT AND SYSTEM GROUNDING, ENCLOSURE AND EQUIPMENT GROUNDING, BONDING TO ASSURE ELECTRICAL CONTINUITY AND GROUNDING CONDUCTORS AS REQUIRED. MINIMUM REQUIREMENTS SHALL BE PER NATIONAL ELECTRIC CODE, ARTICLE 250. ALL EXTERIOR CONDUITS SHALL CARRY A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN ADDITION TO THE CONDUIT GROUND. SIZE OF CONDUCTOR SHALL BE AS NOTED ON THE DRAWINGS.
- CONDUITS IN FURRED SPACES, ABOVE CEILINGS AND NON-FINISHED INTERIOR AREAS SHALL BE ELECTRICAL METALLIC TUBING (EMT). CONDUITS EXPOSED TO WEATHER SHALL BE GALVANIZED RIGID STEEL PVC COATED (GRS). DISSIMILAR METALS IN CONTACT ANYWHERE IN THE CONDUIT SYSTEM SHALL BE AVOIDED. POLYVINYL CHLORIDE (PVC) SHALL NOT BE USED. CONDUITS ABOVE GRADE SHALL BE RUN PARALLEL TO STADIUM WALLS AND COLUMN LINES. RIGID STEEL GALVANIZED PVC COATED CONDUIT SHALL CONFORM TO THE REQUIREMENTS OF UNDERWRITERS LABORATORIES STANDARD 6, 514 AND 1242. CONDUIT AND FITTINGS SHALL BE COATED WITH 40 MILL POLYVINYL CHLORIDE BONDED TO THE CONDUIT WITH AN EPOXY PRIME. PVC COATED CONDUITS SHALL CONFORM TO NEMA RN1-1980 (TYPE 40).
- CONDUCTORS FOR GENERAL WIRING SHALL BE COPPER TYPE THHN/THWN OR XHHW, MAXIMUM TEMPERATURE RATING FOR CURRENT CARRYING SHALL BE 75° C. MINIMUM SIZE CONDUCTOR SHALL BE #12 AWG FOR POWER CIRCUITS. CONTROL WIRING SHALL BE A MINIMUM OF #14 AWG OR AS NOTED ON THE DRAWINGS. NON-METALLIC SHEATHED CABLE (NM-B) OR METAL-CLAD CABLE (AC) SHALL NOT BE. ALUMINUM CONDUCTORS SHALL NOT BE USED.
- LIGHT FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE ABOVE WITH JACK CHAIN, THREADED ROD OR HEAVY GAUGE WIRE. COORDINATE LOCATIONS OF LIGHT FIXTURES WITH THE EQUIPMENT PLAN.
- ALL WIRING THROUGHOUT THE PROJECT INCLUDING POWER, COMMUNICATION, FIBER AND COAX SHALL BE RUN IN EMT CONDUIT TO MATCH EXISTING.
- FURNISH AND INSTALL ALL REQUIRED HANGERS, STRUCTURAL SUPPORTS, RIGGING, SLEEVES, LADDERS, HOIST, LABOR, AND OTHER REQUIREMENTS FOR THE ABOVE INSTALLATION OF ALL ELECTRICAL EQUIPMENT.
- THE ELECTRICAL CONTRACTOR SHALL INSTRUCT THE OWNERS REPRESENTATIVE ON THE PROPER OPERATION OF ALL EQUIPMENT AND GIVE ANY LITERATURE FURNISHED BY THE MANUFACTURER, REGARDING PROPER OPERATING AND MAINTENANCE PROCEDURES, TO THE OWNER.
- INSTALL SCHEDULES IN ALL PANELBOARDS. SCHEDULES SHALL DESIGNATE EQUIPMENT SERVED. SCHEDULES SHALL BE TYPED.
- STENCIL ALL ELECTRICAL EQUIPMENT TO IDENTIFY FUNCTION, CIRCUIT VOLTAGE AND PHASE. WHERE THE EQUIPMENT CONTAINS FUSES, ALSO STENCIL THE FUSE LINK AMPERE RATING.
- COLOR CODE OF PHASE CONDUCTORS FOR 277/480, 120/208V AND GROUND SHALL BE BY THE USE OF COLORED WIRE INSULATION AND/OR COLORED TAPE. WHERE TAPE IS USED, THE WIRE INSULATION SHALL BE BLACK. NEUTRAL CONDUCTOR SHALL BE IDENTIFIED EITHER BY A CONTINUOUS WHITE OR NEUTRAL GREY OUTER FINISH ALONG ITS ENTIRE LENGTH OR BY THE USE OF WHITE TAPE AT ITS TERMINATIONS.
- PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.

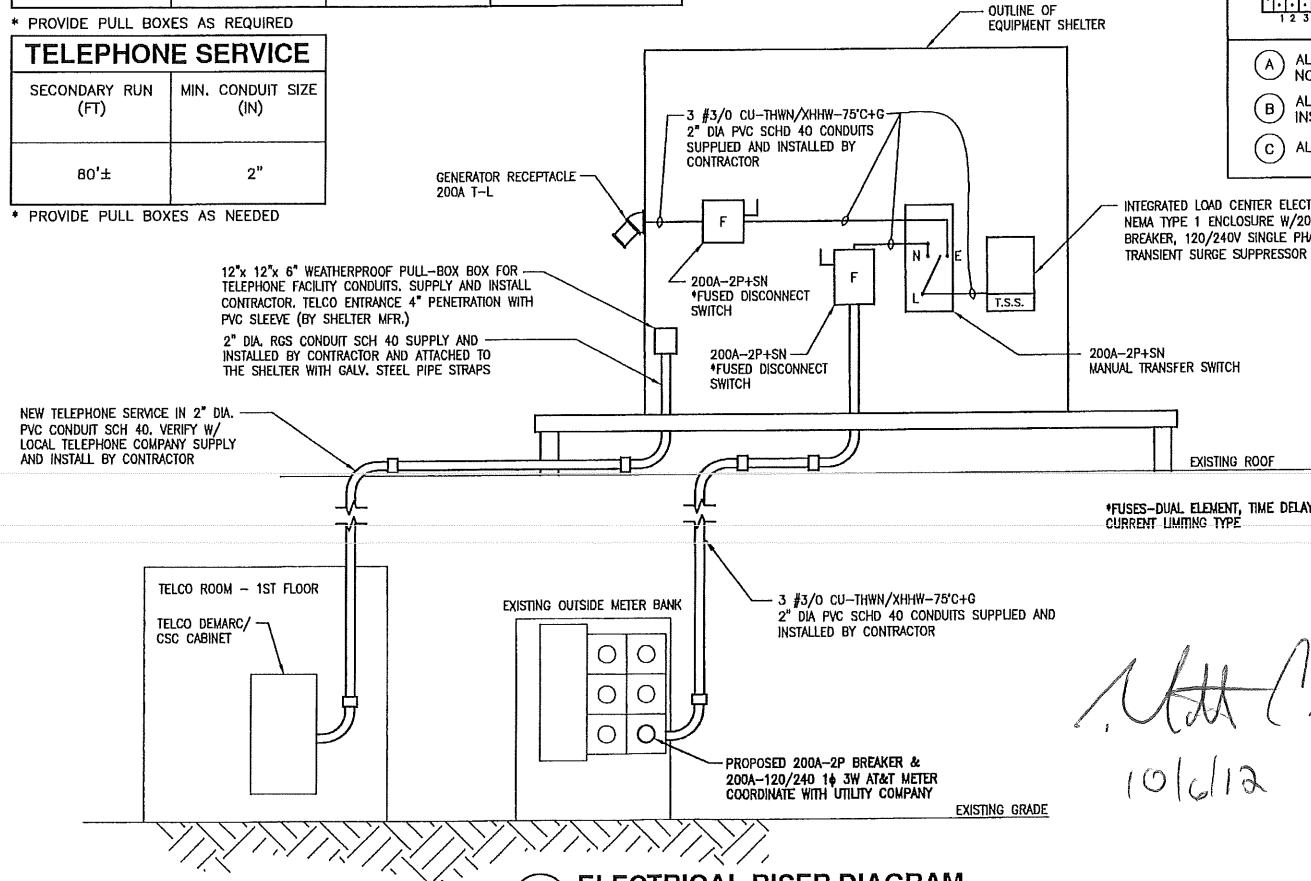
- CLEAN PREMISES EACH DAY OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.
- ALL CONDUIT SHALL BE SURFACE MOUNTED UNLESS OTHERWISE NOTED, NO HORIZONTAL CONDUIT BELOW 7'-0" A.F.F.
- THE ENTIRE SYSTEM SHALL BE SOLIDLY GROUNDING USING COMPRESSION-TYPE CONDUIT FITTINGS ON CONDUITS AND PROPERLY BONDED GROUND CONDUCTORS. CRIMP-TYPE AND SET SCREW-TYPE CONDUIT FITTINGS ARE NOT ALLOWED. ALL RECEPTACLES AND EQUIPMENT CIRCUITS SHALL BE GROUNDING USING A FULL-SIZE EQUIPMENT GROUNDING CONDUCTOR RUN WITH THE CURRENT CONDUCTORS.
- ALL ALARM WIRES SHALL BE RUN FROM EACH OF THE COMPONENTS TO THE RELOCATED 12 X 12 SC BOX. LEAVE ADDITIONAL ALARM WIRE COILED WITH SUFFICIENT LENGTH TO REACH THE FLOOR.
- ALL ALARM WIRES SHALL BE TAGGED AND LABELED WITH THE APPROPRIATE ALARM ITEM. ALL CONTACTS WILL BE NORMALLY CLOSED, DRY, AND ISOLATED FROM GROUND.
- ALL ALARM WIRING SHALL BE 1/2" C, 2-#18, UNLESS OTHERWISE NOTED.
- INTERIOR GROUNDING HALO TO BE #2 INSUL GREEN STRANDED CONTINUOUS LOOP.
- EQUIPMENT SHALL BE BONDED TO THE INTERIOR HALO USING #6 INSULATED GREEN STRANDED.
- BONDING JUMPER SHALL BE INSTALLED AT ALL CABLERACK JUNCTIONS. JUMPER TO BE #6 INSULATED GREEN STRANDED.
- CABLERACK SHALL BE BONDED TO INTERIOR HALO IN MIN. OF 4 PLACES USING #6 INSULATED GREEN STRANDED.
- ALL BONDING SHALL BE DONE WITH TWO HOLE COMPRESSION LUGS.

ELECTRICAL SERVICE			
SECONDARY RUN (FT)	CONDUCTOR SIZE (AWG)	MIN. CONDUIT SIZE (IN)	GROUNDING ELECTRODE CONDUCTOR SIZE (AWG)
150'±	3-#3/0	2	#4

* PROVIDE PULL BOXES AS REQUIRED

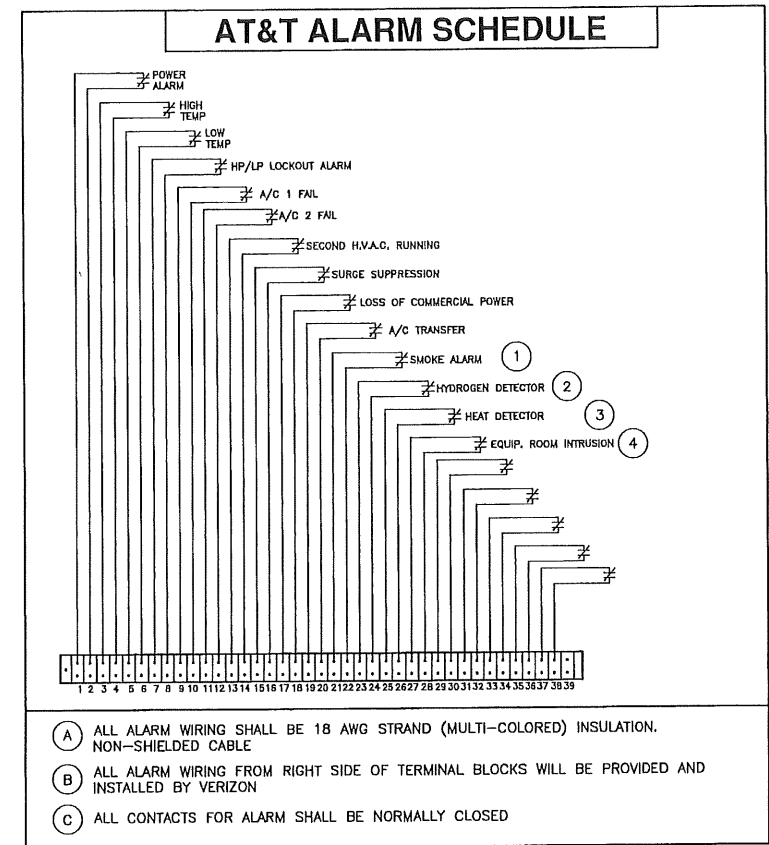
TELEPHONE SERVICE	
SECONDARY RUN (FT)	MIN. CONDUIT SIZE (IN)
80'±	2"

* PROVIDE PULL BOXES AS NEEDED



1 ELECTRICAL RISER DIAGRAM
E-601 SCALE: NONE

- CONNECT SMOKE & HEAT DETECTORS TO ALARM SYSTEM.
- PROVIDE (1) HYDROGEN DETECTOR & WIRE TO ALARM SYSTEM.
- PROVIDE INTRUSION ALARM (DOOR CONTACTS & MOTION DETECTOR) & WIRE TO ALARM SYSTEM.



- ALL ALARM WIRING SHALL BE 18 AWG STRAND (MULTI-COLORED) INSULATION. NON-SHIELDED CABLE
- ALL ALARM WIRING FROM RIGHT SIDE OF TERMINAL BLOCKS WILL BE PROVIDED AND INSTALLED BY VERIZON
- ALL CONTACTS FOR ALARM SHALL BE NORMALLY CLOSED

AT&T PANEL SCHEDULE						
200 AMP MB PANEL BOARD 120/240 VOLTS 1PH 60HZ						
CKT #	DESCRIPTION	WIRE SIZE	AMP	AMP	WIRE SIZE	DESCRIPTION
1	RECTIFIER #1	10 30	60	6		H.V.A.C. UNIT #1
3		10 30	60	6		
5	RECTIFIER #2	10 30	60	6		H.V.A.C. UNIT #2
7		10 30	60	6		
9	RECTIFIER #3	10 30	20	12		LIGHTING (EXT/INT/EMERG)
11		10 30	20	12		LIGHTING (INT/EMERG)
13	RECTIFIER #4	10 30	15	12		WALL HEATER
15		10 30	15	12		
17	RECTIFIER #5	10 30	20	12		QUAD RECEPTACLES X4
19		10 30	20	12		SPARE
21	RECTIFIER #6	10 30	20	12		TWISTLOCK RECEPTACLE
23		10 30	20	12		GFCI WP RECEPT. (EXT)
25	LTE CABINET	10 60	15	12		HYDROGEN DETECTOR/VENT FAN
27		10 60	15	12		HEAT/SMOKE DETECTOR
29		10 25	20	12		GFCI WP RECEPT. (EXT)
31	GALAXY DC PLANT	10 25	/	/		SPACE
33		10 25	/	/		SPACE
35	SPACE	/	/	/		SPACE
37	SPACE	/	/	/		SPACE
39	SPACE	/	/	/		SPACE
41	SPACE	/	/	/		SPACE
42						



22 KEEWAYDIN DRIVE
SALEM, NH 03079

SITE NUMBER: ME2978
SITE NAME: PORTLAN - BAXTER BLVD

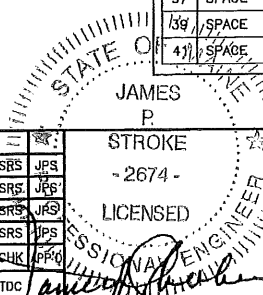
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SCALE: AS INDICATED DESIGNED BY: MJS DRAWN BY: TDC



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ELECTRICAL ONE-LINE DIAGRAM,
NOTES & SCHEDULE

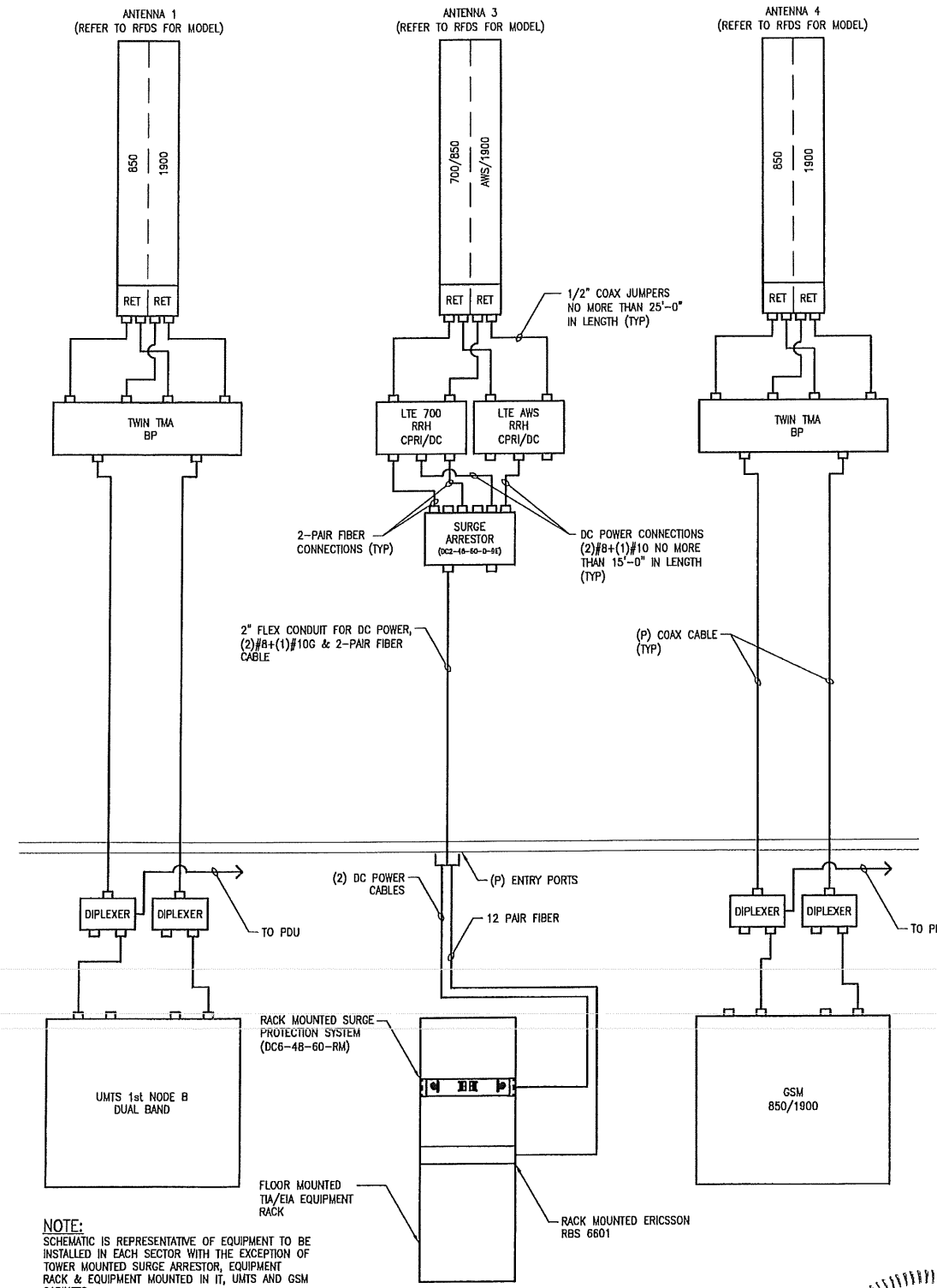
JOB NUMBER	DRAWING NUMBER	REV
SAI 11.43	E-601	3

RF TABLE								
SECTOR	SECTOR NAME	ANTENNA MAKE AND MODEL	ANTENNA COUNT	AZIMUTH	RAD CENTER	MECHANICAL DOWNTILT	TMA COUNT	# OF COAX CABLES
1	ALPHA	REFER TO CURRENT RFDS	3 PROPOSED	30°	40.5'±	N/A	N/A	6 PROPOSED
2	BETA	REFER TO CURRENT RFDS	3 PROPOSED	150°	46'±	N/A	N/A	6 PROPOSED
3	GAMMA	REFER TO CURRENT RFDS	3 PROPOSED	270°	46'±	N/A	N/A	6 PROPOSED

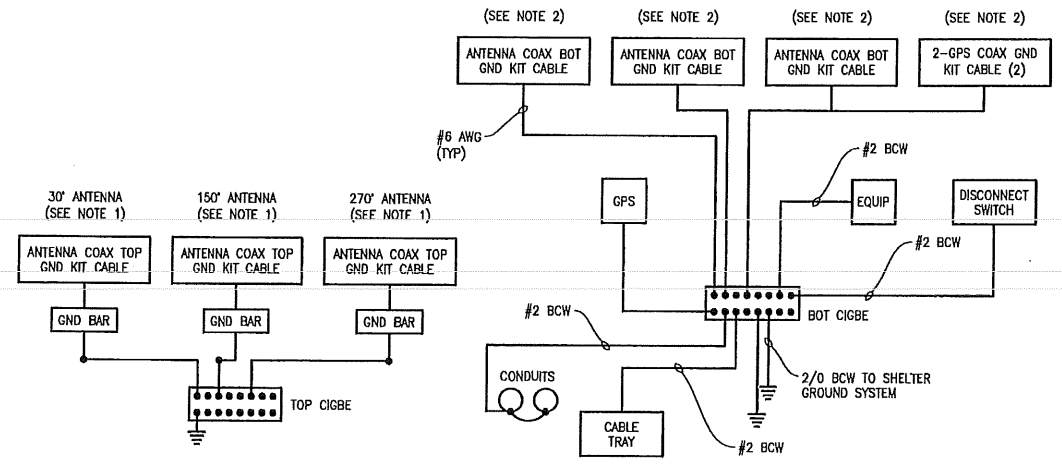
NOTE:
REFER TO LATEST RF DATA SHEET (RFDS) FOR FINAL ANTENNA SETTINGS AND MODEL NUMBER.

GROUNDING NOTES

- THE CONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELECORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO PROJECT MANAGEMENT FOR RESOLUTION.
- ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS. ALL AVAILABLE GROUNDING ELECTRODES SHALL BE CONNECTED TOGETHER IN ACCORDANCE WITH THE NEC.
- THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS. USE OF OTHER METHODS MUST BE PRE-APPROVED BY PROJECT MANAGEMENT IN WRITING.
- THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS ON TOWER SITES AND 10 OHMS OR LESS ON ROOFTOP SITES. WHEN ADDING ELECTRODES, CONTRACTOR SHALL MAINTAIN A MINIMUM DISTANCE BETWEEN THE ADDED ELECTRODE AND ANY OTHER EXISTING ELECTRODE EQUAL TO THE BURIED LENGTH OF THE ROD. IDEALLY, CONTRACTOR SHALL STRIVE TO KEEP THE SEPARATION DISTANCE EQUAL TO TWICE THE BURIED LENGTH OF THE RODS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT.
- METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH 6 AWG COPPER WIRE AND UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO TRANSMISSION EQUIPMENT.
- CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED. BACK-TO-BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BUS ARE PERMITTED.
- ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED. IN ALL CASES, BENDS SHALL BE MADE WITH A MINIMUM BEND RADIUS OF 8 INCHES.
- EACH INTERIOR TRANSMISSION CABINET FRAME/PLINTH SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH 6 AWG STRANDED, GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRE UNLESS NOTE OTHERWISE IN THE DETAILS. EACH OUTDOOR CABINET FRAME/PLINTH SHALL BE DIRECTLY CONNECTED TO THE BURIED GROUND RING WITH 2 AWG SOLID TIN-PLATED COPPER WIRE UNLESS NOTED OTHERWISE IN THE DETAILS.
- ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING, SHALL BE 3 AWG SOLID TIN-PLATED COPPER UNLESS OTHERWISE INDICATED.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE. CONNECTIONS TO ABOVE GRADE UNITS SHALL BE MADE WITH EXOTHERMIC WELDS WHERE PRACTICAL OR WITH 2 HOLE MECHANICAL TYPE BRASS CONNECTORS WITH STAINLESS STEEL HARDWARE, INCLUDING SET SCREWS. HIGH PRESSURE CRIMP CONNECTORS MAY ONLY BE USED WITH WRITTEN PERMISSION FROM SAI COMMUNICATIONS MARKET REPRESENTATIVE. EXOTHERMIC WELDS SHALL BE PERMITTED ON TOWERS ONLY WITH THE EXPRESS APPROVAL OF THE TOWER MANUFACTURER OR THE CONTRACTOR'S STRUCTURAL ENGINEER.
- ALL WIRE TO GROUND CONNECTIONS TO THE INTERIOR GROUND RING SHALL BE FORMED USING HIGH PRESS CRIMPS OR SPLIT BOLT CONNECTORS WHERE INDICATED IN THE DETAILS.
- ON ROOFTOP SITES WHERE EXOTHERMIC WELDS ARE A FIRE HAZARD, COPPER COMPRESSION CAP CONNECTORS MAY BE USED FOR WIRE TO WIRE CONNECTIONS. 2-HOLE MECHANICAL TYPE BRASS CONNECTORS WITH STAINLESS STEEL HARDWARE, INCLUDING SET SCREWS, SHALL BE USED FOR CONNECTION TO ALL ROOFTOP TRANSMISSION EQUIPMENT AND STRUCTURAL STEEL.
- COAX BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR USING TWO-HOLE MECHANICAL TYPE BRASS CONNECTORS AND STAINLESS STEEL HARDWARE.
- APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
- MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
- BOND ALL METALLIC OBJECTS WITHIN 6 FT OF THE BURIED GROUND RING WITH 2 AWG SOLID TIN-PLATED COPPER GROUND CONDUCTOR. DURING EXCAVATION FOR NEW GROUND CONDUCTORS, IF EXISTING GROUND CONDUCTORS ARE ENCOUNTERED, BOND EXISTING GROUND CONDUCTORS TO NEW CONDUCTORS.
- GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (I.E. NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT WITH LISTED BONDING FITTINGS.



1 TYPICAL SECTOR SCHEMATIC DIAGRAM
SCALE: NONE



- NOTES:
- BOND ANTENNA GROUNDING KIT CABLE TO TOP CIGBE
 - BOND ANTENNA GROUNDING KIT CABLE TO BOTTOM CIGBE

2 SCHEMATIC GROUNDING DIAGRAM
SCALE: NONE

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SCALE: AS INDICATED DESIGNED BY: MJS DRAWN BY: TDC

STATE OF MAINE
JAMES P. STROKE
- 2674 -
LICENSED PROFESSIONAL ENGINEER

AT&T MOBILITY
FRAMINGHAM, MA 01701

ELECTRICAL SCHEMATIC DIAGRAMS

JOB NUMBER	DRAWING NUMBER	REV
SAI 11.43	E-602	3