

FOUNDATION PLAN

SCALE: 3/16"=1'-0"

WIND: 130 MPH (EXP. C)
SOIL: 2000 P.S.F.

OCCUPANCY: BUSINESS
FLOOR DESIGN LIVE LOAD: 50/100 PSF
ROOF LIVE LOAD: 20 PSF
CONSTRUCTION: TYPE V-B

STRUCTURAL LOAD LIMITATIONS:

- FLOOR LIVE LOAD:
A. 100 PSF (LOBBIES & CORRIDORS)
50 LB. (REMAINERS)
2000 LB. (CONCENTRATED)
- ROOF LIVE LOAD:
A. 20 PSF
- ROOF SNOW LOAD:
A. $P_s = 20$ PSF
- GROUND SNOW LOAD
- WIND LOAD:
1. 130 MPH
2. $I_w = 1.0$
3. II [ASCE 7-98]
4. ENCLASURE CLASSIFICATION: ENCLOSED
5. $C_{e1} = 0.18$
- COMPONENT & CLADDING LOAD:
(ROOFS)
 $P_u = -33.64$ PSF ZONE 1
 $P_u = -58.55$ PSF ZONE 2
 $P_u = -85.64$ PSF ZONE 3
(WALLS / WINDOWS / DOORS):
 $P_u = -39.97$ PSF ZONE 4
 $P_u = -49.20$ PSF ZONE 5
6. THIS BUILDING IS NOT DESIGNED FOR PLACEMENT ON THE UPPER HALF OF A HILL OR ESCARPMENT EXCEEDING 15 FEET IN HEIGHT.
- SEISMIC LOAD:
A. J. SEISMIC USE GROUP.
B. D. SITE CLASS.
C. II. SEISMIC FORCE RESISTING SYSTEM.
D. C. SEISMIC DESIGN CATEGORY.
E. ANALYSIS PROCEDURE.
F. $S_{ds} = .49$ SPECTRAL RESPONSE COEFFICIENT.
G. $S_{d1} = 1.19$ SPECTRAL RESPONSE COEFFICIENT.
H. $V = 20.5800$ DESIGN BASE SHEAR.
I. $R = 6.5$ RESPONSE MODIFICATION COEFFICIENT

SYMBOLS:

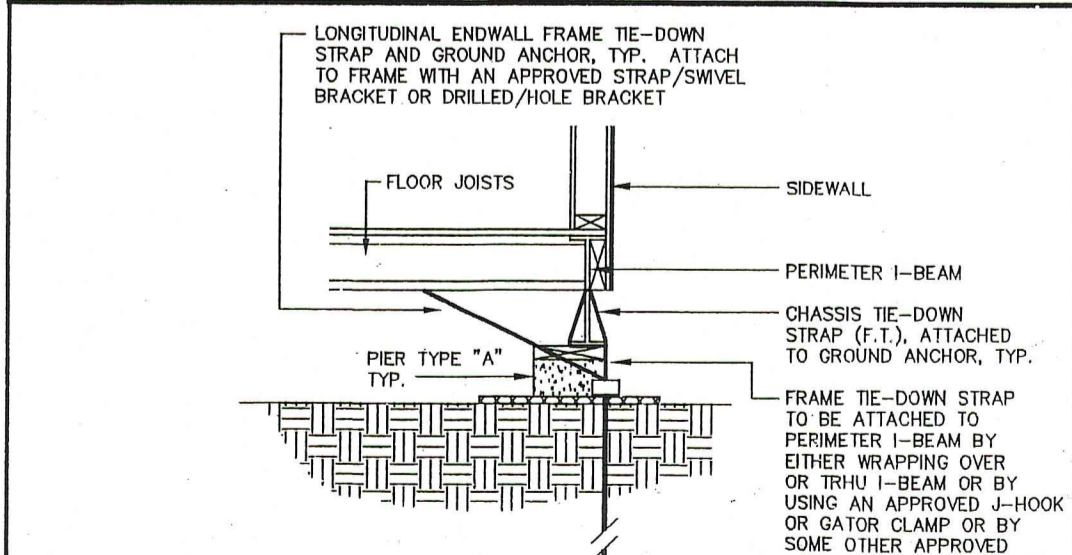
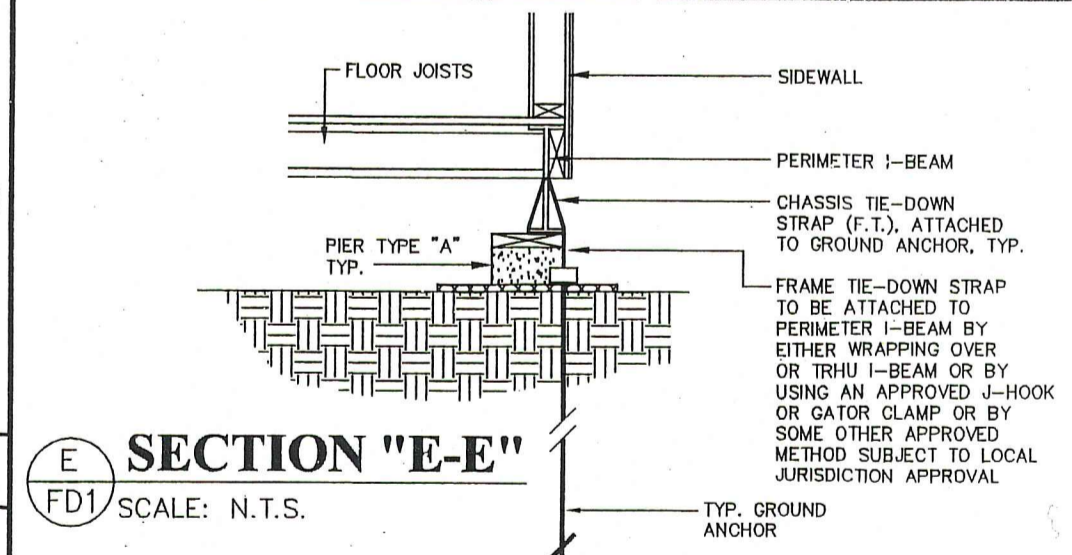
- F.T. - FRAME TIE-DOWN FASTENED TO GROUND ANCHOR
- G.A. - MATELINE FRAME TIE-DOWN (2 STRAPS (1) PER I-BEAM) AND (1) GROUND ANCHOR
- - OUTLINE OF BUILDING FRAME

FOUNDATION NOTES:

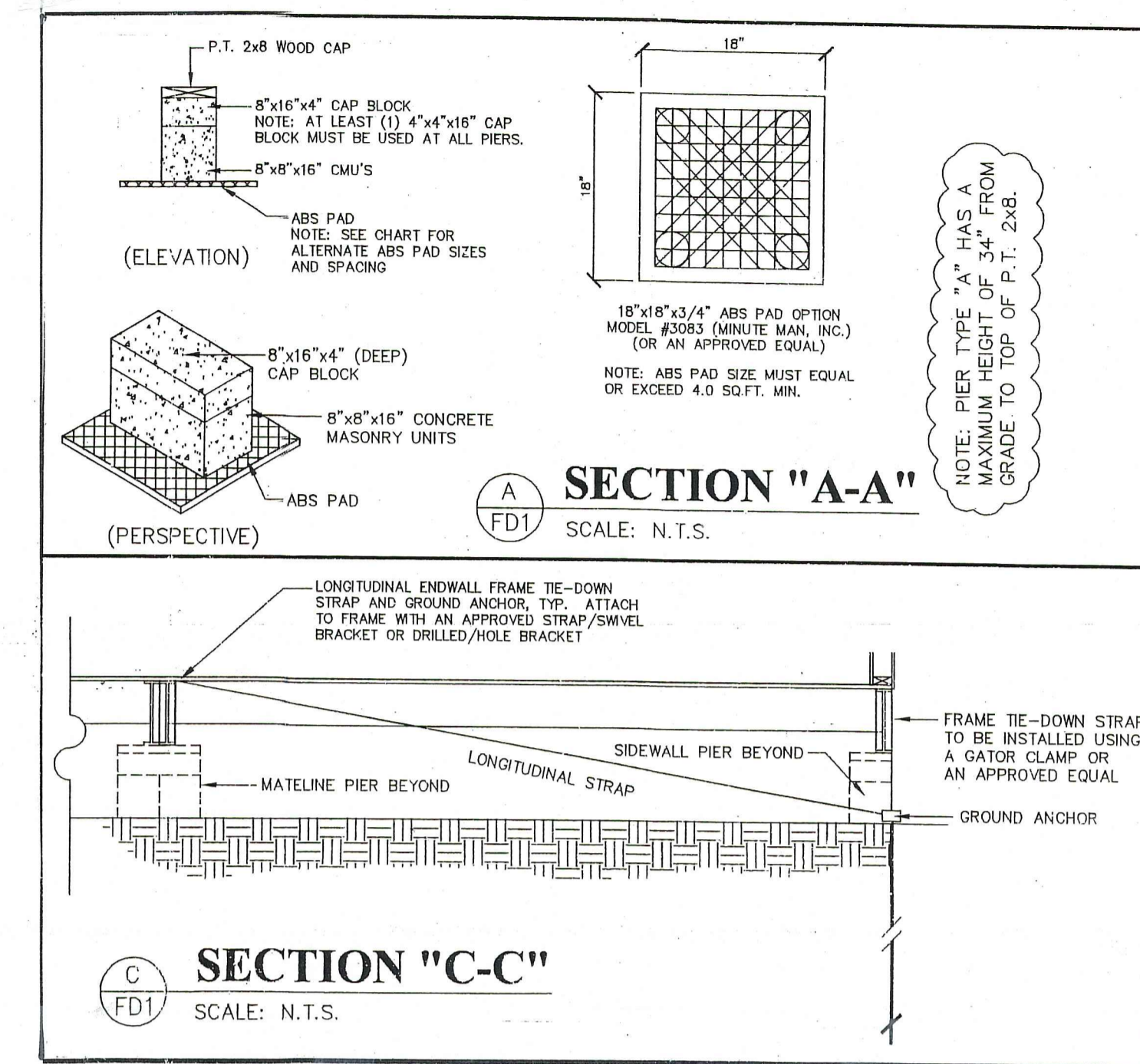
- THE ABOVE FOUNDATION IS DESIGNED AS PER SECTION 104.11 OF THE 2008 NBCS USING ALTERNATIVE DESIGN OR METHOD OF CONSTRUCTION. THIS DESIGN MEETS OR EXCEEDS THE WIND LOAD AND SOIL BEARING REQUIREMENTS OF THE 2008 NBCS. THIS FOUNDATION IS SUBJECT TO THE REVIEW AND APPROVAL OF THE LOCAL JURISDICTION HAVING AUTHORITY.
- TIE-DOWN STRAPS TO BE 1-1/4" X .035 GALVANIZED STEEL FEDERAL SPECIFICATION 605-781H TYPE-1 FINISH-B GRAB-E. TIE-DOWN STRAPS AND CONNECTING HARDWARE TO HAVE 4,725F MINIMUM ULTIMATE CAPACITY (3,100g x 1.5).
- ALL TIE-DOWN ANCHORS SHALL HAVE MINIMUM 4,725 LB. CAPACITY AND SHALL BE INSTALLED AS PER THE MANUFACTURER'S SPECIFICATIONS.
- SEE ABOVE FOUNDATION LAYOUT FOR TIE-DOWN STRAP SPACING.
- ALL PIERS SHALL BE 8"x8"x16" MASONRY BLOCKS ON 12"x24"x4" (DEEP) ABS PADS, EXCEPT AS OTHERWISE NOTED ON FOUNDATION PLAN.
- MINIMUM SOIL BEARING CAPACITY IS 2,000 PSF. TO BE VERIFIED BY BUILDING'S OWNER. IT WILL BE THE BUILDING OWNER'S RESPONSIBILITY TO INSURE THAT ALL GRASS, LOOSE DEBRIS, ETC. ARE REMOVED FROM UNDER THE BUILDING (FOOTING) AND THAT THE GROUND IS LEVELED TO WITHIN 4" AND FIRMLY COMPACTED.
- WOOD SHIMS MAY BE INSTALLED WHEN NECESSARY, BETWEEN THE I-BEAM AND THE TOP OF THE PIER. SHIMS SHALL BE OF P.L. LUMBER, CEDAR OR ABS AND BEARING AT ALL CONTACT POINTS SHALL NOT BE LESS THAN 2/3 OF THE BEARING PRIOR TO ADDING THE SHIMS.
- MASONRY PIERS MAY BE INSTALLED IN A DRY STACK SUBJECT TO LOCAL JURISDICTION AND APPROVAL.
- OVERALL WIDTH DIMENSION IS NOMINAL AND IS BASED ON UNIT WIDTH X NUMBER OF UNITS. ACTUAL OVERALL WIDTH MAY INCREASE DUE TO SITE CONDITIONS, MATERIAL TOLERANCES, FAILING TO REMOVE CLOSE-UP MATERIAL AND/OR OTHER FACTORS BEYOND THE CONTROL OF THE BUILDING MANUFACTURER.
- PIER A: FIELD CONDITIONS WITH DRY STACK PIERS GREATER THAN 34" SHALL REQUIRE FOUNDATIONS TO BE ENGINEERED BEYOND THIS APPROVAL.
- PIER B: FIELD CONDITIONS WITH DRY STACK PIERS GREATER THAN 88" SHALL REQUIRE FOUNDATIONS TO BE ENGINEERED BEYOND THIS APPROVAL.
- WHERE REQUIRED BY LOCAL JURISDICTION ALL MASONRY PIERS MAY BE LAID IN TYPE "A" OR "C" MORTAR IN COMPLIANCE w/ASTM C 687, OR SHALL HAVE SURFACE BONDING MORTAR IN COMPLIANCE w/ASTM C 945.

NOTE: IF MODULAR BUILDING IS LOCATED OVER A CLASS 1 (ROCK) SURFACE A CROSS DRIVE ANCHOR (MD# 36-XDH (MINUTE MAN PRODUCTS, INC.) OR AN APPROVED EQUAL CAN BE SUBSTITUTED

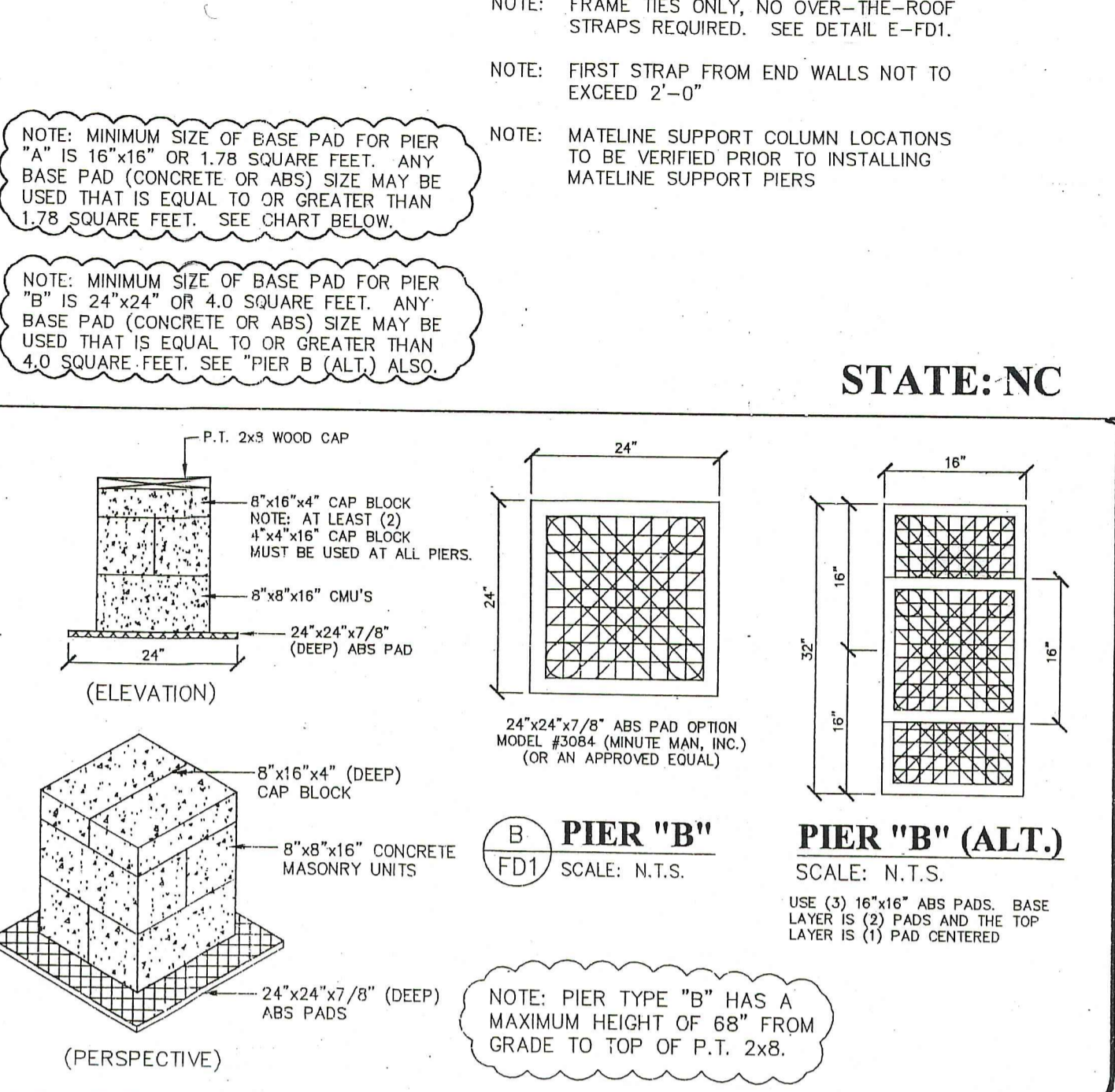
NOTE: IF MODULAR BUILDING IS LOCATED OVER A MIN. 4" THICK 3000 P.S.I. CONCRETE SURFACE A TENSION HEAD w/ SLEEVE ANCHOR (MD# THDHL (MINUTE MAN PRODUCTS, INC.) OR AN APPROVED EQUAL CAN BE SUBSTITUTED



SECTION "F-F"
SCALE: N.T.S.



SECTION "A-A"
SCALE: N.T.S.



PIER "B"
SCALE: N.T.S.

PIER "B" (ALT.)
SCALE: N.T.S.

NOTE: FRAME TIES ONLY, NO OVER-THE-ROOF STRAPS REQUIRED. SEE DETAIL E-FD1.

NOTE: FIRST STRAP FROM END WALLS NOT TO EXCEED 2'-0"

NOTE: MATELINE SUPPORT COLUMN LOCATIONS TO BE VERIFIED PRIOR TO INSTALLING MATELINE SUPPORT PIERS

STATE: NC

Foundation Plan

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

	Foundation Plan 7 Units		<table border="1"> <tr> <td>DRAWN BY</td> <td>ILD</td> <td>SCALE</td> </tr> <tr> <td>FILE</td> <td>B00N01</td> <td>LISTED</td> </tr> <tr> <td>APPVD. BY</td> <td>WAG</td> <td></td> </tr> <tr> <td>DATE</td> <td colspan="2">12-18-19</td> </tr> </table>	DRAWN BY	ILD	SCALE	FILE	B00N01	LISTED	APPVD. BY	WAG		DATE	12-18-19	
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<p>Lillington Grace Church of the Nazarene 401 South Street Lillington, N C. 27546</p>		<p>CONSULTING ENGINEER Meridian Engineering, P.A. P.O.Box 1291 809 Rhem Street, Kinston 28501 Phone 1-252-522-2587 Fax 1-252-522-2501</p>													
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