CHEROKEE COUNTY REST AREA

US 19
ANDREWS, NC

STATE ID# 16-16033-01A
WBS ELEMENT 51213.011

NC DEPT. OF INSURANCE
2012 APPENDIX B BUILDING CODE SUMMARY

NC

Name Of Project: **CHEROKEE COUNTY REST AREA**
Address: US 19 & COVER STREET, ANDREWS, NC
Proposed Use: RESTROOM BUILDING
Owner Or Authorized Agent: Weeks Turner Architecture, Raleigh, NC — Phone: (919) 779-9797, E-mail ganderson@weeksturner.com
Owned By: [ ] City/County [ ] Private [X] State
Code Enforcement Jurisdiction: [ ] City [ ] County [X] State

LEAD DESIGN PROFESSIONAL: WEEKS TURNER ARCHITECTURE, PA

DESIGNER	FIRM	NAME	LIC. #	TELEPHONE	E-MAIL
Architectural:	Weeks Turner Architecture	Ginger S. Anderson	11075	(919) 779-9797	ganderson@weeksturner.com
Civil	---	---	---	---	---
Electrical:	Burke Design Group	Benjamin E. Burke	22038	(919) 771-1916	benburke@nc.rr.com
Fire Alarm:	---	---	---	---	---
Plumbing:	Burke Design Group	Benjamin E. Burke	22038	(919) 771-1916	benburke@nc.rr.com
Mechanical:	Burke Design Group	Benjamin E. Burke	22038	(919) 771-1916	benburke@nc.rr.com
Sprinkler - Standpipe:	---	---	---	---	---
Structural:	---	---	---	---	---
Retaining Walls > 5' High	---	---	---	---	---
Other:	---	---	---	---	---

2012 EDITION OF NC CODE FOR: [X] New Construction [X] Addition [ ] Upfit
EXISTING: [ ] Reconstruction [ ] Alteration [ ] Repair
CONSTRUCTED 1990 **ORIGINAL USE** RESTROOMS
RENOVATED_____ **CURRENT USE** RESTROOMS **PROPOSED USE** RESTROOMS

BUILDING DATA

CONSTRUCTION TYPE: [ ] I-A [ ] II-A [ ] III-A [ ] IV [ ] V-A
[ ] I-B [ ] II-B [ ] III-B [X] V-B
MIXED CONSTRUCTION: [X] NO [ ] YES TYPES: _____
SPRINKLERS: [X] NO [ ] PARTIAL [ ] YES [ ] NFPA 13 [ ] NFPA 13R [ ] NFPA 13D
STANDPIPES: [X] NO [ ] YES CLASS [ ]I [ ] II [ ] III [ ] WET [ ] DRY
FIRE DISTRICT: [X] NO [ ] YES **FLOOD HAZARD AREA:** [ ] NO [X] YES
BUILDING HEIGHT: 16 FEET NUMBER OF STORIES: __1__
MEZZANINE: [X] NO [ ] YES

GROSS BUILDING AREA

	EXISTING (SF)	NEW (SF)	SUB-TOTAL	TENANT
3RD FLOOR	---	---	---	---
2ND FLOOR	---	---	---	---
MEZZANINE (mech)	---	178	178	---
1ST FLOOR	1,130	56	1,186	---
BASEMENT	---	---	---	---
TOTAL	**1,130**	**412**	**1,364**	--- SF

ALLOWABLE AREA:

PRIMARY OCCUPANCY:

[ ] ASSEMBLY [ ] A-1 [ ] A-2 [ ] A-3 [ ] A-4 [ ] A-5
[X] BUSINESS
[ ] EDUCATIONAL
[ ] FACTORY-INDUSTRIAL [ ] F-1 Moderate [ ] F-2 Low
[ ] HIGH-HAZARD [ ] H-1 Detonate [ ] H-2 Deflagrate [ ] H-3 Combust [ ] H-4 Health [ ] H-5 HPM
[ ] INSTITUTIONAL [ ] I-1 [ ] I-2 [ ] I-3 [ ] I-4
I-3 CONDITION [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5

[ ] MERCANTILE
[ ] RESIDENTIAL [ ] R-1 [ ] R-2 [ ] R-3 [ ] R-4
[ ] STORAGE [ ] S-1 Moderate [ ] S-2 Low [ ] HIGH-PILED
[ ] UTILITY AND MISC [ ] PARKING GARAGE [ ] OPEN [ ] ENCLOSED [ ] REPAIR

SECONDARY OCCUPANCY: STORAGE (S-1)

SPECIAL OCCUPANCY: [ ] 402 [ ] 403 [ ] 404 [ ] 405 [ ] 406 [ ] 407 [ ] 408 [ ] 409 [ ] 410 [ ] 411
[ ] 412 [ ] 413 [ ] 414 [ ] 415 [ ] 416 [ ] 417 [ ] 418 [ ] 419 [ ] 420 [ ] 421

SPECIAL PROVISIONS: [ ] 508.2 [ ] 508.3 [ ] 508.4 [ ] 508.5 [ ] 508.6 [ ] 508.7 [ ] 508.8

MIXED OCCUPANCY: [ ] NO [X] YES SEPARATION: --- HR. EXCEPTION: ---

[ ] Incidental Use Separation (508.2)
This separtation is not exempt as a Non-Separated Use (see exceptions)

[X] Non-separated Mixed Occupancy (508.3.2)
The Required Type Of Construction For The Building Shall Be Determined By Applying The Height And Area Limitations For Each Of The Applicable Occupancies To The Entire Building. The Most Restrictive Type Of Construction, So Determined, Shall Apply To The Entire Building

[ ] Separated Mixed Occupancy (508.3.3) - See Below For Area Calc.
For Each Story, The Area Of The Occupancy Shall Be Such That The Sum Of The Ratios Of The Actual Floor Area Of Each Use Divided By The Allowable Floor Area For Each Use Shall Not Exceed 1.

ACTUAL AREA OF OCCUPANCY A / ALLOWABLE AREA OF OCCUPANCY A + ACTUAL AREA OF OCCUPANCY B / ALLOWABLE AREA OF OCCUPANCY B < 1

_____ + _____ + ------ ≤ 1.00

STORY NO.	DESCR'N AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 503 5 AREA	(C) AREA FOR OPEN SPACE INCREASE 1	(D) AREA FOR SPRINKLER INCREASE 2	(E) ALLOWABLE AREA OR UNLIMITED 3	(F) MAXIMUM BUILDING AREA 4
1	BUSINESS	1,186 sf	9,000	6,750	---	15,750	31,500
1	STORAGE	---	9,000	6.750	---	15,750	15,750
---	---	---	---	---	---	---	---

1. Open Space Area Increases From Section 506.2 Are Competed Thus:
   A. Perimeter Which Fronts A Public Way Or Open Space Having 20 Ft Min. Width = 198 (F).
   B. Total Building Perimeter = 198 (P).
   C. Ratio (F/P) = 1 (F/P).
   D. W= Minimum Width Of Public Way = 30 (W).
   E. Percent Of Frontage Increase Iƒ = 100 [F/P - 0.25] X W/30 = 75 (%).
2. The Sprinkler Increase Per Section 506.3 Is As Follows:
   A. Multi-story Building Is = 200 %
   B. Single Story Building Is = 300%
3. Unlimited Area Applicable Under Conditions Of Sections Group B, F, M, S, A-4 (507); Group A Motion Picture (507.9); Malls (402.6); And H-2 Aircraft Paint Hangers (507.7)
4. Max. Building Area = Total No. Of Stories In The Building X E But Not Greater Than 3 X E. (506.4)
5. The Maximum Area Of Parking Garages Must Comply With 406.3.5. The Maximum Area Of Air Traffic Control Towers Must Comply With 412.1.2.

ALLOWABLE HEIGHT

TYPE OF CONSTRUCTION: TYPE VB

	ALLOWABLE (TABLE 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE
BUILDING HEIGHT IN FEET	40 (FT)	--- (H +20')	16 (FT)	---
BUILDING HEIGHT IN STORIES	1 (STORIES)	--- (STORIES + 1)	1 (STORIES)	---

NC DEPT. OF INSURANCE
2012 APPENDIX B BUILDING CODE SUMMARY

CONTINUED

FIRE PROTECTION REQUIREMENTS

LIFE SAFETY PLAN SHEET # (IF PROVIDED)

BUILDING ELEMENT	FIRE SEP'N DIST. (FT)	RATING REQ'D	RATING PROV'D (W/ ----* REDUCTION)	DETAIL # AND SHEET #	DES. # FOR RATED ASS'Y	DES. # FOR RATED PENET'N	DES. # FOR RATED JOINTS
STRUCTURAL FRAME, INCLUDING COLUMNS GIRDERS, TRUSSES	---	0	---	---	---	---	---
BEARING WALLS							
EXTERIOR							
NORTH	MORE THAN 30'	0	---	---	---	---	---
EAST	MORE THAN 30'	0	---	---	---	---	---
WEST	MORE THAN 30'	0	---	---	---	---	---
SOUTH	MORE THAN 30'	0	---	---	---	---	---
INTERIOR	---	---	---	---	---	---	---
NONBEARING WALLS AND PARTITIONS							
EXTERIOR							
NORTH	---	---	---	---	---	---	---
EAST	---	---	---	---	---	---	---
WEST	---	---	---	---	---	---	---
SOUTH	---	---	---	---	---	---	---
INTERIOR WALL & PARTITIONS	---	---	---	---	---	---	---
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	---	0	---	---	---	---	---
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	---	---	---	---	---	---	---
SHAFTS ENCLOSURES-EXIT	---	---	---	---	---	---	---
SHAFTS ENCLOSURES-OTHER	---	---	---	---	---	---	---
CORRIDOR SEPARATION	---	---	---	---	---	---	---
OCCUPANCY SEPARATION	---	---	---	---	---	---	---
PARTY/FIRE WALL SEPARATION	---	---	---	---	---	---	---
SMOKE BARRIER SEPARATION	---	---	---	---	---	---	---
TENANT SEPARATION	---	---	---	---	---	---	---
INCIDENTAL USE SEPARATION							

*INDICATE SECTION NO. PERMITTING REDUCTION

LIFE SAFETY SYSTEM REQUIREMENTS

EMERGENCY LIGHTING: [X] YES [ ] NO
EXIT SIGNS: [X] YES [ ] NO
FIRE ALARM: [ ] YES [X] NO
SMOKE DETECTION SYSTEMS: [ ] YES [X] NO
PANIC HARDWARE: [ ] YES [X] NO

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: A0.2

[ ] Fire and/or smoke rated wall locations (Chapter 7)
[ ] Assumed and real property line locations
[ ] Exterior wall opening area with respect to distance to assumed property lines (705.8)
[ ] Existing structures within 30 feet of the proposed building
[ ] Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.1)
[X] Occupant loads for each area
[X] Exit access travel distances (1016)
[ ] Common path of travel distances (1014.3 & 1028.8)
[ ] Dead end lengths (1018.4)
[X] Clear exit widths for each exit door
[ ] Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.1)
[ ] Actual occupant load for each exit door
[ ] A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancyseparation
[ ] Location of doors with panic hardware (1008.1.10)
[ ] Location of doors with delayed egress locks and the amount of delay (1008.1.9.7)
[ ] Location of doors with electromagnetic egress locks (1008.1.9.8)
[ ] Location of doors equipped with hold-open devices
[ ] Location of emergency escape windows (1029)
[ ] The square footage of each fire area (902)
[ ] The square footage of each smoke compartment (407.4)
[ ] Note any code exceptions or table notes that may have been utilized regarding the items above

DESIGN LOADS: **SEE SHEET S0.1**

BUILDING OCCUPANCY CATEGORY	II
ROOF DEAD LOAD	12 PSF
ROOF LIVE LOAD	20 PSF
CEILING DEAD LOAD	10 PSF
CEILING LIVE LOAD (Maint. Access - NO storage	5 PSF
FLOOR LIVE LOAD (Uniform)	100PSF
FLOOR LIVE LOAD (Concentrated)	2000 LBS
SNOW LOAD DATA:	
GROUND SNOW LOAD	15 PSF
SNOW EXPOSURE FACTOR	1.0
SNOW LOAD IMPORTANCE FACTOR	1.0
THERMAL FACTOR	1.1
FLAT ROOF SNOW LOAD	15 PSF
ROOF SLOPE FACTOR	1.0
PITCHED ROOF SNOW LOAD	11.6
WIND LOAD DATA:	
DESIGN WIND SPEED (ASCE 7-05)	100 MPH
WIND IMPORTANCE FACTOR	1.0
WIND EXPOSURE	B
INTERNAL PRESSURE COEFFICIENTS	+0.18, -0.18
NBL BUILDING:	
WIND BASE SHEAR (x-x DIRECTION)	12.8 KIPS
WIND BASE SHEAR (y-y DIRECTION)	14.9 KIPS
CORNER ZONE BOUNDARY DIST. "a" FOR C/C WIND	4.3 FT

SEE SHEET S0.1 FOR WIND PRESSURE & SEISMIC LOAD DATA

PLUMBING FIXTURE REQUIREMENT

USE: BUSINESS 1,186 SF/100 = 12 PEOPLE

	WATERCLOSETS MALE	WATERCLOSETS FEMALE	URINALS	LAVATORIES MALE	LAVATORIES FEMALE	FAMILY RESTROOM	DRINKING FOUNTAINS REGULAR	DRINKING FOUNTAINS ACCESSIBLE
REQUIRED	---	---	---	---	---	---	---	---
PROVIDED	2	4	2	2	2	1	1	1

ACCESSIBLE PARKING

EXISTING PARKING TO REMAIN

LOT OR PARKING AREA	TOTAL # OF SPACES REQ'D	TOTAL # OF SPACES PROVIDED	# OF ACCESSIBLE SPACES PROVIDED REG. WITH 5' ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	TOTAL # ACCESSIBLE PROVIDED
---	---	---	---	---	---
---	---	---	---	---	---
TOTAL	---	---	---	---	---

1 **VICINTY MAP**
SCALE: NTS

GENERAL NOTES

I: FOR THIS PROJECT:

A) THE ARCHITECTS SCOPE OF WORK DOES INCLUDE CONSTRUCTION OBSERVATION.

THE CONTRACTOR IS IN CHARGE OF THE WORK AND COMPLIANCE WITH THESE CONSTRUCTION DOCUMENTS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE ARCHITECT WILL BEAR NO RESPONSIBILITY FOR FAILURE OF THE CONTRACTOR TO FULLY COMPLY WITH ALL CONSTRUCTION DOCUMENTS.

USE OF THESE CONTRACT DOCUMENTS WILL CONSTITUTE AGREEMENT BY THE CONTRACTOR TO THESE CONDITIONS.

B) "THE GENERAL CONDITIONS OF THE CONTRACT FOR THE CONSTRUCTION OF THE BUILDINGS" OF THE AMERICAN INSTITUTE OF ARCHITECTS DOCUMENT A-201, LATEST EDITION, ARE HEREBY MADE PART OF THE CONTRACT DOCUMENTS. IN THE EVENT OF A CONFLICT, THESE GENERAL NOTES AND CONTRACT SUPERSEDE "AIA DOCUMENT A-201".

II: ALL WORK UNDER THIS CONTRACT SHALL:

A) CONFORM TO STATE, LOCAL AND NATIONAL CODES AND ORDINANCES AS ARE APPLICABLE TO THE WORK INCLUDING BUT NOT LIMITED TO THE NORTH CAROLINA STATE BUILDING CODE, THE AMERICANS WITH DISABILITIES ACT (ADA), NATIONAL ELECTRIC CODES, ASTM SPECIFICATIONS, AND OSHA SAFETY REGULATIONS.

B) COMPLY WITH ALL LAWS, ORDINANCES, CODES, RULES AND REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION (EPA). THE COST OF ALL REQUIRED INSPECTIONS AND PERMITS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

III: UNLESS OTHERWISE DIRECTED BY THE ARCHITECT, THE CONTRACTOR SHALL:

A) SUPPLY AND PAY FOR ALL LABOR, TRANSPORTATION, MATERIALS, TOOLS, APPARATUS, LIGHTS, POWER, HEAT, SANITARY FACILITIES, WATER, SCAFFOLDING, AND INCIDENTALS NECESSARY FOR THE COMPLETION OF HIS WORK.

B) INSTALL, MAINTAIN AND REMOVE ALL EQUIPMENT, OTHER UTENSILS OR THINGS USED FOR THE CONSTRUCTION PRIOR TO TURNING OVER THE PROJECT., IF SUCH ITEMS ARE LEFT AFTER COMPLETION OF THE PROJECT, THEY SHALL BECOME PROPERTY OF THE OWNER. THE OWNER MAY PROMPTLY DISPOSE OF SUCH ITEMS, AND WILL NOT BE SUBJECT TO CLAIMS OF THE CONTRACTOR RESULTING FROM SUCH DISPOSITION.

C) CONSTRUCT IN THE BEST AND PROFESSIONAL MANNER, A COMPLETE JOB AND EVERYTHING INCIDENTAL THERETO, AS SHOWN OR REASONABLY IMPLIED FROM THE PLANS, ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

D) VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO PROCEEDING WITH THE WORK AND NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES DISCOVERED OR LACK OF REQUIRED INFORMATION TO REQUEST CLARIFICATION. IF THE CONTRACTOR OBSERVES THE CONTRACT DOCUMENTS TO BE CONTRARY TO GOVERNING LAWS, ORDINANCES, CODES, RULES AND REGULATIONS OR OTHERWISE QUESTIONABLE CONDITIONS, HE SHALL PROMPTLY NOTIFY THE ARCHITECT IN WRITING FOR INSTRUCTIONS PRIOR TO PROCEEDING WITH THE WORK.

E) KEEP THE BUILDING AND SURROUNDING AREA REASONABLY FREE FROM RUBBISH AT ALL TIMES. AT A MINIMUM, DEBRIS SHALL BE REMOVED FROM THE SITE ON A WEEKLY BASIS OR AS DIRECTED BY PROJECT EXPEDITOR.

F) LOCATE ALL EXISTING UTILITIES. THE CONTRACTOR MAY NOT INTERFERE WITH ADJACENT UTILITIES UNLESS PRIOR NOTICE AND PERMISSION IS RECEIVED FROM THOSE WHO MAY AS A RESULT OF THIS INTERFERENCE BE AFFECTED.

G) PRIOR TO ANY WORK, CALL "NC ONE CALL CENTER" @ 800-632-4949 AND OTHER LOCATING SERVICES AS TO CONFIRM LOCATION OF UTILITIES.

H) PRIOR TO FINAL INSPECTION AND ACCEPTANCE OF THE BUILDING, EACH CONTRACTOR SHALL CLEAN HIS PORTION OF THE WORK, INCLUDING GLASS, HARDWARE FIXTURES, MASONRY, TILE AND MARBLE (USING NO ACID), CLEAN AND WAX ALL FLOORS AS SPECIFIED, AND COMPLETELY PREPARE THE BUILDING FOR USE BY THE OWNER.

I) FILE WITH THE OWNER CURRENT INSURANCE CERTIFICATIONS IN THE AMOUNTS REQUESTED BY THE OWNER FOR BUILDER'S RISK, WORKMEN'S COMPENSATION, COMPREHENSIVE GENERAL LIABILITY, BODILY INJURY AND PROPERTY DAMAGE. THIS INSURANCE SHALL INDEMNIFY THE OWNER AND THE ARCHITECT OF ANY AND ALL COSTS, CLAIMS, SUITS AND JUDGEMENTS FOR PROPERTY DAMAGE AND PERSONAL INJURY (INCLUDING GENERAL) ARISING OUT OF THE CONTRACTOR'S ACTIONS.

J) PROVIDE ALL NECESSARY SAFETY MEASURES FOR THE PROTECTION OF ALL PERSONS OF THE WORK, INCLUDING THE REQUIREMENTS OF THE A.G.C. ACCIDENT PREVENTION MANUAL IN CONSTRUCTION AS AMENDED, AND SHALL FULLY COMPLY WITH ALL STATE LAWS OR REGULATIONS AND NORTH CAROLINA STATE BUILDING CODE REQUIREMENTS TO PREVENT ACCIDENT OR INJURY TO PERSONS ON OR ABOUT THE LOCATION OF THE WORK.

K) CLEARLY MARK OR POST SIGNS WARNING OF HAZARDS EXISTING, AND BARRICADE EXCAVATIONS, ELEVATOR SHAFTS, STAIRWELLS AND SIMILAR HAZARDS. PROTECT AGAINST DAMAGE OR INJURY RESULTING FROM FALLING MATERIALS AND MAINTAIN ALL PROTECTIVE DEVICES AND SIGNS THROUGHOUT THE PROGRESS OF THE WORK

WEEKS TURNER ARCHITECTURE

WEEKS TURNER ARCHITECTURE, PA
3305-109 Durham Drive
Raleigh, North Carolina 27603
919.779.9797 fax: 919.779.0826
www.weeksturner.com

GINGER S. ANDERSON
REGISTERED ARCHITECT
11075
NORTH CAROLINA
RALEIGH, NC

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DRAWING INDEX

A0.1 COVER SHEET
A0.2 LIFE SAFETY
A0.3 SITE PLAN - DEMO
A0.4 SITE PLAN - REVISED
A1.1 DEMO PLAN
A1.2 REVISED FLOOR PLAN
A1.3 RAMP DEMO
A1.4 NEW WALKWAY
A1.5 RCP & ROOF PLAN
A1.6 FINISH PLAN
A1.7 INTERIOR ELEVATIONS
A2.1 DEMO ELEVATIONS
A2.2 REVISED ELEVATIONS
A2.3 REVISED ELEVATIONS
A3.1 BUILDING SECTIONS
A3.2 BUILDING SECTIONS
A4.1 WALL SECTIONS
A4.2 WALL SECTIONS
A5.1 SCHEDULES/DETAILS
A6.1 DETAILS
A6.2 DETAILS
A6.3 DETAILS

S1 FOUNDATION PLAN
S2 ROOF FRAMING
S3 WALKWAY

P1 PLUMBING SPECIFICATIONS
P2 EXISTING/DEMO PLUMBING PLAN
P3 DWV PLAN
P4 SUPPLY PLAN
P5 RISER DIAGRAM

M1 HVAC SCHEDULES
M2 EXISTING/DEMO HVAC PLAN
M3 REVISED HVAC PLAN

E1 ELECTRICAL DETAILS/SPECS
E2 EXISTING LIGHTING PLAN
E3 REVISED LIGHING PLAN
E4 EXISTING POWER PLAN
E5 REVISED POWER PLAN
E6 PANEL SCHED./SERVICE RISER
E7 SITE LIGHTING

PROJECT TITLE
CHEROKEE COUNTY REST AREA
US 19 AND COVER STREET
ANDREWS, NORTH CAROLINA

PROJECT NO.
1504a

DRAWING TITLE
COVER SHEET

SHEET 1 OF 22

A0.1

PLOT DATE 10/19/16
REVISION 00/00/08

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