## GENERAL NOTES: N.C. BUILDING CODE, 2002 EDITION

1. ACCESS TO BUILDING FOR PERSONS IN WHEELCHAIRS IS DESIGNED BY AND FIELD BUILT BY OTHERS AND SUBJECT TO LOCAL JURISDICTION. THE PRIMARY ENTRANCE MUST BE ACCESSIBLE.
2. ALL DOORS SHALL BE OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY, TOOL, SPECIAL KNOWLEDGE OR EFFORT. MANUALLY OPERATED FLUSH BOLTS OR SURFACE BOLTS SHALL NOT BE USED.
3. ALL GLAZING WITHIN 24 INCH ARC OF DOORS, WHOSE BOTTOM EDGE IS LESS THAN 60 INCHES ABOVE THE FLOOR, AND ALL GLAZING IN DOORS SHALL BE SAFETY, TEMPERED OR ACRYLIC PLASTIC SHEET.
4. FLOOR DESIGN LIVE LOAD = 40 PSF CLASSROOM.
5. MAXIMUM WIND SPEED =130 MPH, FOR ELEVATIONS OF 4500' AND ABOVE.
6. SEISMIC PERFORMANCE CATEGORY C.
7. OCCUPANCY IS EDUCATIONAL (6 YRS AND OLDER)
8. OCCUPANT LOAD IS BASED ON 1 PERSON PER 20 SQUARE FEET OF NET CLASSROOM FLOOR AREA FOR MEANS OF EGRESS PURPOSES.
9. ALL STEEL STRAPS REFERENCED ON FLOOR PLAN SHALL BE 1.5 INCH x 26 GA. WITH 8 – 15 GA. x 7/16 INCH CROWN x 1 INCH STAPLES EACH END OF STRAP OR EQUIVALENT FROM RIDGE BEAM TO COLUMN, AND COLUMN TO FLOOR.
10. THIS BUILDING HAS NOT BEEN DESIGNED FOR COASTAL HAZARD AREAS, OCEAN HAZARD OR REGULATORY FLOOD PLAIN AREAS.
11. CONSTRUCTION IS TYPE VB, UNPROTECTED.
12. MINIMUM CORRIDOR WIDTH IS 72 INCHES.
13. MINIMUM CORRIDOR FINISH IS CLASS B (GYPSUM).
14. THE BUILDINGS FIRE ALARM SYSTEM (PROTECTIVE SIGNALING SYSTEMS, FIRE DETECTION SYSTEMS, ETC.) SHALL BE DESIGNED IN ACCORDANCE WITH NFPA 101 AND NFPA 72 AND SITE INSTALLED BY OTHERS SUBJECT TO LOCAL BUILDING OFFICIAL REVIEW AND APPROVAL. THE FIRE ALARM CONTROL PANEL MUST BE INSTALLED IN A HIGHLY VISIBLE LOCATION ACCEPTABLE TO THE LOCAL AUTHORITY HAVING JURISDICTION. (THE FACP CANNOT BE INSTALLED IN A CLOSET OR BATHROOM).
15. REQUIRED BATH FACILITIES ARE LOCATED IN ADJACENT BUILDING SUBJECT TO LOCAL JURISDICTION APPROVAL. SEE ATTAHED BATH LETTER.
16. PROVISIONS FOR EXIT DISCHARGE LIGHTING ARE THE RESPONSIBILITY OF THE BUILDING OWNER AND SUBJECT TO LOCAL JURISDICTION APPROVAL WHEN NOT SHOWN ON THE FLOOR PLAN (INCLUDING EMERGENCY LIGHTING, WHEN REQUIRED).
17. PORTABLE FIRE EXTINGUISHER PER N.F.P.A. – 10 INSTALLED BY OTHERS ON SITE, AND SUBJECT TO LOCAL JURISDICTION.

## ATTENTION LOCAL INSPECTIONS DEPARTMENT

SET UP INSTRUCTIONS FOR THIS MODULE UNIT ARE INCLUDED BY ATTACHMENT TO THESE PLANS. ANY PLANS SET WHICH DOES NOT INCLUDE AN ATTACHMENT ENTITLED "INSTALLATION INSTRUCTIONS" ARE INCOMPLETE.

THE FOLLOWING ITEMS HAVE NOT BEEN COMPLETED BY THE MANUFACTURER, HAVE NOT BEEN INSPECTED BY HWCNC,P.C. AND ARE NOT CERTIFIED BY THE NORTH CAROLINA MODULAR LABEL. NOTE THAT THIS LIST DOES NOT NECESSARILY LIMIT THE ITEMS OF WORK AND MATERIAL THAT MAY BE REQUIRED FOR A COMPLETE INSTALLATION. ALL SITE RELATED ITEMS ARE SUBJECT TO LOCAL JURISDICTION APPROVAL. CODE COMPLIANCE MUST BE DETERMIND AT THE LOCAL LEVEL.

1. THE COMPLETE FOUNDATION SUPPORT AND TIE DOWN SYSTEM.
2. RAMPS, STAIRS AND GENERAL ACCESS TO THE BUILDING.
3. PORTABLE FIRE EXTINGUISHER(S).
4. DRINKING FOUNTIAN, BUILDING DRAINS, CLEANOUTS, AND HOOK–UP TO PLUMBING SYSTEM.
5. ELECTRICAL SERVICE HOOK–UP (INCLUDING FEEDERS) TO THE BUILDING.
6. THE MAIN ELECTRICAL PANEL AND SUB–FEEDERS (MULTI–UNITS ONLY)
7. CONNECTION OF ELECTRICAL CIRCUITS CROSSING OVER MODULE MATELINE(S) – (MULTI–UNITS ONLY).
8. STRUCTURAL AND AESTHETIC INTERCONNECTIONS BETWEEN MODULES (MULTI–UNITS ONLY).
9. FIRE STOPPING AND AIR INFILTRATION STOPPING SHALL BE INSTALLED BETWEEN MODULES IN ACCORDANCE WITH NCBC. VOL. I SECTIONS 705.3 AND 2305. STOPPING MATERIAL AND INSTALLATION IS DESIGNED BY OTHERS.
10. EXTERIOR LIGHTING AS REQUIRED.

1

## ELECTRICAL SCHEDULE

| CIRCUIT | NOMENCLATURE | BREAKER (AMPS) | WIRE (CU.) |
|---|---|---|---|
| 1, 3 | HVAC | 60 A (2P) HACR | 6–2 #8 GRND. |
| 5, 7 | W/H | 30A (2P) | 10–2 NM |
| 6, 8 | RECEPTACLES | 20 A | 12–2 NM |
| 2, 4 | LIGHTING | 20 A | 12–2 NM |
| | | | |
| | | | |

## ELECTRICAL PANEL SIZING:

| DESCRIPTION | KVA |
|---|---|
| GENERAL LIGHTING | |
| .0035 KW/SF X 793 SF X 1.25= | 3.5 |
| 9 RECEPTS AT 180VA/1000= | 1.6 |
| WATER HEATER 6.5 KW = | 6.5 |
| 2 FANS AT .3 KW X 1.25= | 1.2 |
| HVAC | 10.5 |
| OTHER | – |
| TOTAL 23.3 KW | |
| TOTAL/240 X 1000= 97 AMPS | |
| INSTALL 100 AMP PANEL | |
| 120/240 V 1ø | |

APPROVED
JUL 26 2004
REVIEWED BY: S. FRANCIS
HWCNC, P.C.

## ELECTRICAL NOTES: N.C. ELECTRICAL CODE 2002 ED.

1. ALL CIRCUITS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE APPROPRIATE ARTICLES OF THE NATIONAL ELECTRICAL CODE (NEC).
2. WHEN LIGHT FIXTURES ARE INSTALLED IN CLOSETS THEY SHALL BE SURFACE MOUNTED OR RECESSED. INCANDESCENT FIXTURES SHALL HAVE COMPLETELY ENCLOSED LAMPS. SURFACE MOUNTED INCANDESCENT FIXTURES SHALL HAVE A MINIMUM CLEARANCE OF 12 INCHES AND ALL OTHER FIXTURES SHALL HAVE A MINIMUM CLEARANCE OF 6 INCHES FROM "STORAGE AREA" AS DEFINED BY NEC 410–8(a).
3. WHEN WATER HEATERS ARE INSTALLED THEY SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE WATER HEATERS SERVED. THE BRANCH CIRCUIT SWITCH OR CIRCUIT BREAKER SHALL BE PERMITTED TO SERVE AS THE DISCONNECTING MEANS ONLY WHERE THE SWITCH OR CIRCUIT BREAKER IS WITHIN SIGHT FROM THE WATER HEATER OR IS CAPABLE OF BEING LOCKED IN THE OPEN POSITION.
4. HVAC EQUIPMENT SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE EQUIPMENT SERVED. A UNIT SWITCH WITH A MARKED "OFF" POSITION THAT IS A PART OF THE HVAC EQUIPMENT AND DISCONNECTS ALL UNGROUNDED CONDUCTORS SHALL BE PERMITTED AS THE DISCONNECTING MEANS WHERE OTHER DISCONNECTING MEANS ARE ALSO PROVIDED BY A READILY ACCESSIBLE CIRCUIT BREAKER.
5. PRIOR TO ENERGIZING THE ELECTRICAL SYSTEM THE INTERRUPTING RATING OF THE MAIN BREAKER MUST BE DESIGNED AND VERIFIED AS BEING IN COMPLIANCE WITH SECTION 110–9 OF THE NEC BY LOCAL ELECTRICAL CONSULTANT.
6. THE MAIN ELECTRICAL PANEL AND FEEDERS ARE DESIGNED BY OTHERS, SITE INSTALLED AND SUBJECT TO LOCAL JURISDICTION APPROVAL.
7. ALL CIRCUITS CROSSING OVER MODULE MATING LINE(S) SHALL BE SITE CONNECTED WITH APPROVED ACCESSIBLE JUNCTION BOXES OR CABLE CONNECTORS.
8. EXTERIOR LIGHTING NOT INTENDED FOR 24 HOUR USE SHALL BE AUTOMATICALLY SWITCHED BY EITHER A TIMER OR PHOTOCELL.
9. FIRE ALARM PULL STATION OPERABLE DEVICE SHALL BE LOCATED 42 TO 45 INCHES ABOVE THE FLOOR. FIRE ALARM HORN/STROBE DEVICE SHALL BE WALL MOUNTED WITH THE BOTTOM EDGE 80 INCHES ABOVE THE FLOOR.
10. ALL RECEPTACLES INSTALLED IN WET LOCATIONS (EXTERIOR) SHALL BE IN WEATHER PROOF (WP) ENCLOSURES. THE INTEGRITY OF WHICH IS NOT AFFECTED WHEN AN ATTACHMENT PLUG CAP IS INSERTED OR REMOVED.

## NOTICE

HWCNC, P.C. APPROVAL IS NOT VALID IN THOSE PORTIONS OF LISTED STATE(S) WHERE SNOW LOADS DETERMINED FROM LOCAL METEOROLOGICAL DATA EXCEED THE LISTED LIVE LOAD.

## PLUMBING SCHEDULE:

| QTY. | ITEM | MFG. | MODEL NO. |
|---|---|---|---|
| 1 | ADULT H/C TOILET | UNIVERSAL RUNDLE | 4471 (TANK W/ LID) 4290 BOWL |
| 1 | WALL MT. LAV. FAUCET | EMPIRE | 4048 |
| 1 | WALL MT. LAV. | FLORIDA | 5017 |
| 1 | EEMAX WATERHEATER | EEMAX | EX65 |
| 1 | 42" GRAB BAR | HARNEY | 71765–SS |
| 2 | 36" GRAB BAR | HARNEY | 71766–SS |

## ELECTRICAL SCHEDULE:

| QTY. | ITEM | MFG. | MODEL NO. |
|---|---|---|---|
| 12 | LIGHT FIXTURE 240 | MATALUX | W240A–120V–LE3 |
| 1 | EMERGENCY LTS. | SURELITE | CC–2 |
| 2 | EXIT SIGNS UNLIGHTED | TAMLITE | EZXTEU2RW |
| 1 | EXHAUST FAN | NUTONE | 8664RP |
| 1 | 100 AMP PANEL BOX | CUTLER/HAMMER | BR1020B100PK |
| 2 | 180 CFM EXHAUST FAN | BROAN | BROAN505 |

## HVAC SCHEDULE:

| QTY. | ITEM | MFG. | MODEL NO. |
|---|---|---|---|
| 1 | THERMOSTAT | LUXPRO | PSM40 |
| 5 | 10x10 SUPPLY DIFFUSER | U.S. AIRE | 1104M |
| 1 | HVAC WALL MOUNT UNITS | BARD | WA361A10 |
| | DUCTBOARD | JOHNS/MANVILLE | 5x16=162350–10 8x18= 162350–10 |
| 1 | 10x6 SUPPLY DIFFUSER | U.S. AIRE | 1103M |

## PLUMBING NOTES: N.C. PLUMB. CODE 2002 EDITION

1. TOILETS SHALL BE ELONGATED WITH NONABSORBENT OPEN FRONT SEATS.
2. REST ROOM WALLS SHALL BE COVERED WITH NONABSORBENT MATERIAL TO A MINIMUM HEIGHT OF 48 INCHES A.F.F. FLOORS SHALL HAVEA SMOOTH, HARD, NONABSORBENT SURFACE THAT EXTENDS UPWARD ONTO THE WALLS AT LEAST 6 INCHES.
3. CUSTOMER ASSUMES ALL RESPONSIBILITY FOR DRINKING WATER FACILITIES AND SERVICE SINK WHEN NOT SHOWN ON FLOOR PLAN.
4. ALL PLUMBING FIXTURES SHALL HAVE SEPARATE SHUTOFF VALVES.
5. WATER HEATER SHALL HAVE SAFETY PAN WITH 1 INCH DRAIN TO EXTERIOR, T & P RELIEF VALVE WITH DRAIN TO EXTERIOR, AND A SHUT OFF VALVE WITHIN 3 FEET ON A COLD WATER SUPPLY LINE.
6. DWV SYSTEM SHALL BE EITHER ABS OR PVC – DWV.
7. WATER SUPPLY LINES SHALL BE POLYBUTYLENE, CPVC, OR COPPER; WHEN POLY–BUTYLENE SUPPLY LINES ARE INSTALLED THE MAXIMUM WATER HEATER TEMPERATURE SETTING IS 180° F. THE POLYBUTYLENE PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS LIMITATIONS AND INSTRUCTIONS.
8. WATER CLOSETS ARE TANK TYPE AND URINALS ARE FLUSH TANK TYPE UNLESS OTHERWISE SPECIFIED.
9. BUILDING DRAIN AND CLEANOUTS ARE DESIGNED AND SITE INSTALLED BY OTHERS, SUBJECT TO LOCAL JURISDICTION APPROVAL.
10. SHOWERS SHALL BE CONTROLLED BY AN APPROVED MIXING VALVE WITH A MAXIMUM WATER OUTLET TEMPERATURE OF 120°F (48.8°C).
11. THERMAL EXPANSION DEVICE, IF REQUIRED BY WATER HEATER INSTALLED, AND IF NOT SHOWN ON PLUMBING PLAN, IS DESIGNED AND SITE INSTALLED BY OTHERS, SUBJECT TO LOCAL APPROVAL.
12. WATER PIPES INSTALLED IN A WALL EXPOSED TO THE EXTERIOR SHALL BE LOCATED ON THE HEATED SIDE OF THE WALL INSULATION. WATER PIPING INSTALLED IN AN UNCONDITIONED ATTIC SHALL BE INSULATED WITH AN INSULATION OF R–6.5 MINIMUM.
13. THIS UNIT MUST BE CONNECTED TO A PUBLIC WATER SUPPLY AND SEWER SYSTEM IF THESE ARE AVAILABLE.
14. PIPING IN UNCONDITIONED SPACES MUST BE PROTECTED WITH INSULATION HAVING A MINIMUM R FACTOR OF 6.5 IN ACCORDANCE WITH SECTION 305.6.

## SYMBOLS

- (S) SMOKE DETECTOR
- DUPLEX RECEPTACLE 120 V.
- SINGLE RECEPTACLE 240 V.
- INCANDESCENT LIGHT WITH 1– 60 W. BULB
- VENT FAN
- COMB. VENT FAN & LIGHT
- SUPPLY AIR REGISTER
- RETURN AIR REGISTER
- FLOOD LIGHT W/2–150W BULBS

J–BOXES ONLY

- P FIRE ALARM PULL STATION
- H FIRE ALARM HORN/STROBE
- S FIRE ALARM STROBE LIGHT
- (T) THERMOSTAT
- FLUORESCENT FIXTURE WITH 2– 40W TUBES
- EXIT SIGNS W/BATT BACK–UP
- J JUNCTION BOX (NON POWERED UNLESS CIRCUIT NO. IS SHOWN)
- TELEPHONE JACK
- $ $ SWITCH & 3 WAY SWITCH
- EMERGENCY LIGHT WITH BATTERY BACKUP

## STRUCTURAL LOAD LIMITATIONS

FLOOR LIVE LOAD:
A. 40 PSF
B. 1000 LB. CONCENTRATED LOAD OVER 30" x 30" AREA LOCATED ANYWHERE ON FLOOR.

ROOF LIVE LOAD:
A. 20 PSF

ROOF SNOW LOAD:
A. Pg = 20 PSF GROUND SNOW LOAD
B. Pf = 20 PSF FLAT ROOF SNOW LOAD
C. Ce = 1.2 SNOW EXPOSURE FACTOR
D. Is = 1.0 SNOW IMPORTANCE FACTOR
E. Ct = 1.0 SNOW THERMAL FACTOR

WIND LOAD:
A. 130 MPH WIND SPEED
B. Iw = 1.0 WIND IMPORTANCE FACTOR
C. C WIND EXPOSURE CATEGORY
D. GCpi = 0.18 INTERNAL PRESSURE COEFFICIENT
E. Pw = 49 PSF WALL COMPONENT & CLADDING LOAD
F. Pr = 92 PSF ROOF COMPONENT & CLADDING LOAD
G. THIS BUILDING IS NOT DESIGNED FOR PLACEMENT ON THE UPPER HALF OF A HILL OR ESCARPMENT EXCEEDING 15 FEET IN HEIGHT.

SEISMIC LOAD:
A. I SEISMIC USE GROUP
B. D SITE CLASS
C. 1K SEISMIC FORCE RESISTING SYSTEM.
D. C SEISMIC DESIGN CATEGORY
E. SIMPLIFIED ANALYSIS PROCEDURE
F. Sds = ≤.49 SPECTRAL RESPONSE COEFFICIENT
G. Sd1 = ≤.19 SPECTRAL RESPONSE COEFFICIENT
H. V = 2057 LB DESIGN BASE SHEAR
I. R = 6 RESPONSE MODIFICATION COEFFICIENT

FLOOD LOAD:
THIS BUILDING IS NOT DESIGNED TO BE LOCATED IN A FLOOD HAZARD AREA.

## ACCESSIBILITY NOTES: N.C. ACCESSIBILTY CODE, 1999 EDITION W/2002 AMENDMENTS

1. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN SHALL BE DISPLAYED AT ALL ACCESSIBLE RESTROOM FACILITIES AND AT ACCESSIBLE BUILDING ENTRANCES UNLESS ALL ENTRANCES ARE ACCESSIBLE. INACCESSIBLE ENTRANCES SHALL HAVE DIRECTIONAL SIGNS INDICATING THE ROUTE TO THE NEAREST ACCESSIBLE ENTRANCE.
2. ACCESSIBLE DRINKING FOUNTAINS SHALL HAVE A SPOUT HEIGHT NO HIGHER THAN 36 INCHES ABOVE THE FLOOR AND EDGE OF BASIN NO HIGHER THAN 34 INCHES ABOVE THE FLOOR FOR INDIVIDUALS IN WHEELCHAIRS. ADDITIONALLY, DRINKING WATER PROVISIONS SHALL BE MADE FOR INDIVIDUALS WHO HAVE DIFFICULTY IN BENDING.
3. WHERE STORAGE FACILITIES SUCH AS CABINETS, SHELVES, CLOSETS, AND DRAWERS ARE PROVIDED AT LEAST ONE OF EACH TYPE PROVIDED SHALL CONTAIN STORAGE SPACE COMPLYING WITH THE FOLLOWING: DOORS, ETC. TO SUCH SPACES SHALL BE ACCESSIBLE (ie. TOUCH LATCHES, U–SHAPED PULLS); SPACES SHALL BE WITHIN 15 INCHES MINIMUM AND 48 INCHES MAXIMUM OF THE FLOOR FOR FORWARD REACH OR 9 INCHES MINIMUM AND 54 INCHES MAXIMUM, OF THE FLOOR FOR SIDE REACH; CLOTHES RODS SHALL BE A MAXIMUM OF 54 INCHES ABOVE THE FLOOR (48 INCHES MAXIMUM WHEN DISTANCE FROM WHEELCHAIR TO ROD EXCEEDS 10 INCHES).
4. CONTROLS, DISPENSERS, RECEPTACLES AND OTHER OPERABLE EQUIPMENT SHALL BE NO HIGHER THAN 45 INCHES ABOVE THE FLOOR FOR FRONT APPROACH OR 54 INCHES ABOVE THE FLOOR FOR SIDE APPROACH. RECEPTACLES ON WALLS SHALL BE MOUNTED NO LESS THAN 15 INCHES ABOVE THE FLOOR. EXCEPTION: HEIGHT LIMITATIONS DO NOT APPLY WHERE THE USE OF SPECIAL EQUIPMENT DICTATES OTHERWISE OR WHERE ELECTRICAL RECEPTACLES ARE NOT NORMALLY INTENDED FOR USE BY BUILDING OCCUPANTS.
5. WHERE EMERGENCY WARNING SYSTEMS ARE PROVIDED, THEY SHALL INCLUDE BOTH AUDIBLE AND VISUAL ALARMS. THE VISUAL ALARMS SHALL BE LOCATED THROUGHOUT, INCLUDING RESTROOMS, AND PLACED 80 INCHES ABOVE THE FLOOR OR 6 INCHES BELOW CEILING, WHICHEVER IS LOWER.
6. ALL DOORS SHALL BE OPENABLE BY A SINGLE EFFORT. THE MAXIMUM FORCE REQUIRED TO OPEN A DOOR SHALL NOT EXCEED 8.5 LBS. FOR EXTERIOR SWINGING DOORS AND 5 LBS. FOR ALL SLIDING, FOLDING, AND INTERIOR SWINGING DOORS.
7. FLOOR SURFACES SHALL BE STABLE, FIRM, AND SLIP–RESISTANT. CHANGES IN LEVEL BETWEEN 0.25 INCH AND 0.5 INCH SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2. CHANGES IN LEVEL GREATER THAN 0.5 INCH REQUIRE RAMPS. CARPET PILE THICKNESS SHALL BE 0.5 INCH MAX. GRATINGS IN FLOOR SHALL HAVE SPACES NO GREATER THAN 0.5 INCH WIDE IN ONE DIRECTION. DOORWAY THRESHOLDS SHALL NOT EXCEED 0.5 INCH IN HEIGHT.
8. ACCESSIBLE WATER CLOSETS SHALL BE 17 INCHES TO 19 INCHES FROM THE FLOOR TO THE TOP OF THE SEAT. GRAB BARS SHALL BE 36 INCHES LONG MINIMUM WHEN LOCATED BEHIND WATER CLOSET AND 42 INCHES MINIMUM WHEN LOCATED ALONG SIDE OF WATER CLOSET, AND SHALL BE MOUNTED 33 INCHES TO 36 INCHES ABOVE THE FLOOR.
9. ACCESSIBLE URINALS SHALL BE STALL–TYPE OR WALL HUNG WITH ELONGATED RIMS AT A MAXIMUM OF 17 INCHES ABOVE THE FLOOR.
10. ACCESSIBLE LAVATORIES SHALL BE MOUNTED WITH THE RIM NO HIGHER THAN 34 INCHES ABOVE THE FLOOR AND A CLEARANCE OF AT LEAST 29 INCHES ABOVE THE FLOOR TO THE BOTTOM OF THE APRON.
11. ACCESSIBLE SINKS SHALL BE MOUNTED WITH THE RIM NO HIGHER THAN 34 INCHES ABOVE THE FLOOR AND A CLEARANCE OF AT LEAST 27 INCHES HIGH, 30 INCHES WIDE, AND 19 INCHES DEEP UNDERNEATH SINK. THE SINK DEPTH SHALL BE 6.5 INCHES MAXIMUM.
12. HOT WATER AND DRAIN PIPES UNDER ACCESSIBLE LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. INSULATION OR PROTECTION MATERIALS MAY BE SITE INSTALLED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER ACCESSIBLE LAVATORIES AND SINKS.
13. ACCESSIBLE LAVATORIES AND SINKS SHALL HAVE ACCESSIBLE FAUCETS (ie. LEVER–OPERATED, PUSH–TYPE, ELECTRONICALLY CONTROLLED).
14. WHERE MIRRORS ARE PROVIDED IN REST ROOM, AT LEAST ONE SHALL BE PROVIDED WITH ITS BOTTOM EDGE NO HIGHER THAN 40 INCHES ABOVE THE FLOOR.
15. WHERE MEDICINE CABINETS ARE PROVIDED, AT LEAST ONE SHALL BE LOCATED WITH A USABLE SHELF NO HIGHER THAN 44 INCHES ABOVE THE FLOOR.
16. GRAB BARS REQUIRED FOR ACCESSIBILITY SHALL BE 1.25 INCHES TO 1.5 INCHES IN DIAMETER WITH 1.5 INCHES CLEAR SPACE BETWEEN THE BAR AND THE WALL.
17. WATER CLOSET FLUSH CONTROL SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREA.
18. TOILET STALL DOORS SHALL BE THE SELF–CLOSING TYPE.
19. DOORS TO ALL ACCESSIBLE SPACES SHALL HAVE ACCESSIBLE HARDWARE (i.e. LEVER–OPERATED, PUSH–TYPE, U–SHAPED) MOUNTED NO HIGHER THAN 48 INCHES ABOVE THE FLOOR.

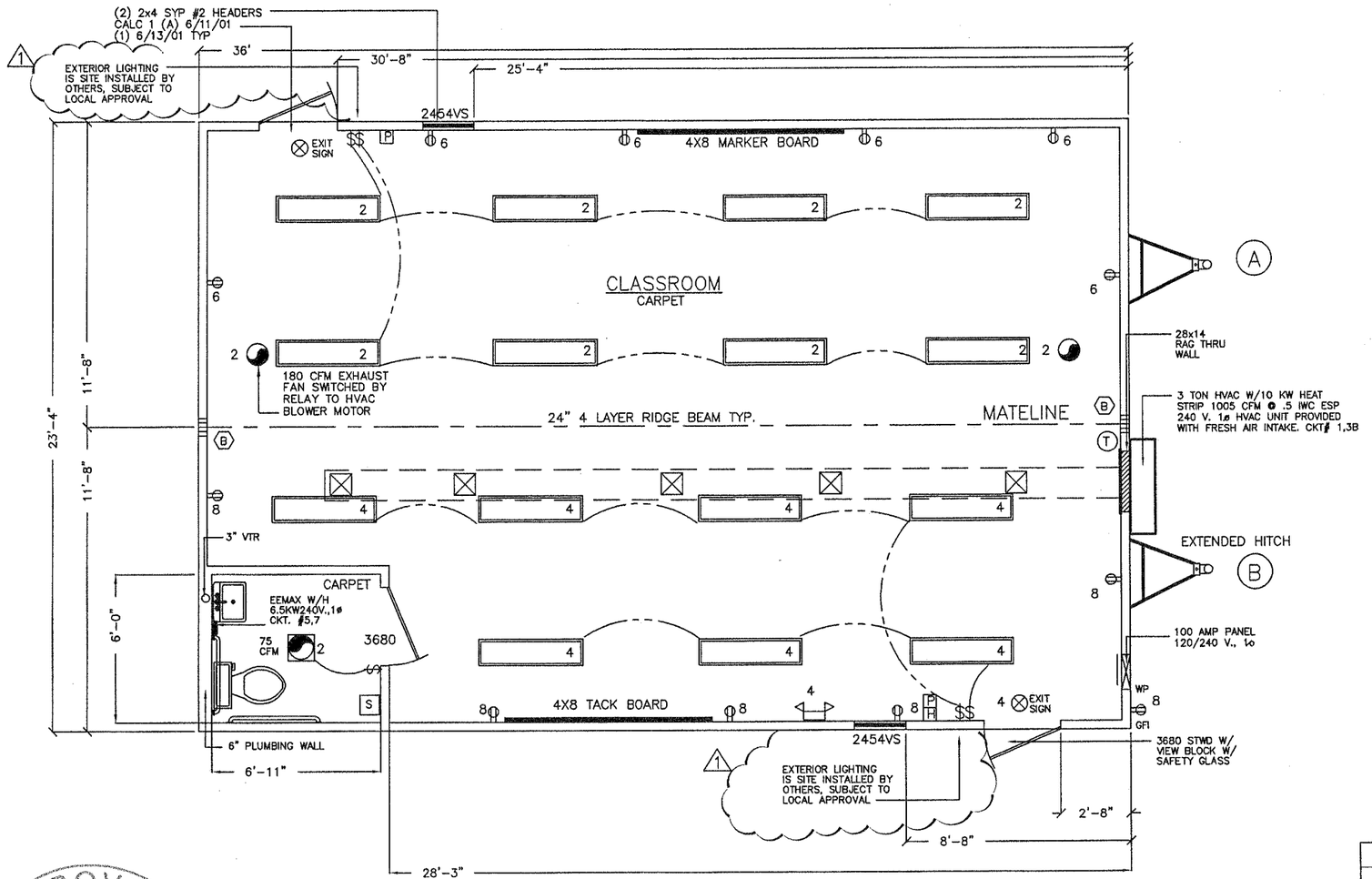
## MECHANICAL NOTES: N.C. MECH. CODE 2002 EDITION

1. ALL SUPPLY AIR REGISTERS SHALL BE 10 INCHES x 10 INCHES ADJUSTABLE WITH 8 INCHES x 18 INCHES (INSIDE) OVERHEAD FIBERGLASS DUCT, UNLESS OTHERWISE SPECIFIED. DUCTS IN UNCONDITIONED SPACES SHALL HAVE R–5 MINIMUM INSULATION EXCEPT DUCTS EXPOSED TO VENTILATED ATTICS AND CRAWL SPACES SHALL HAVE R–6.5 INSULATION.
2. DELETED
3. HVAC EQUIPMENT SHALL BE EQUIPPED WITH OUTSIDE FRESH AIR INTAKES PROVIDING 15 CFM FOR EACH OCCUPANT, OR 50 CFM FOR EACH WATER CLOSET AND EACH URINAL, WHICHEVER IS GREATER.
4. MECHANICAL SYSTEM DESIGNED FOR AVERAGE OCCUPANT LOAD OF 20.
5. VENT FANS SHALL BE DUCTED TO THE EXTERIOR AND TERMINATE AT AN APPROVED VENT CAP.

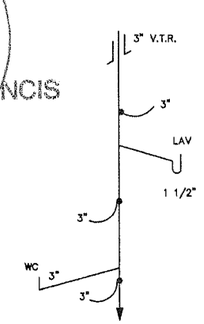
## ENERGY CODE: N.C. ENERGY CODE 2002 EDITION

**TOPLINE BUILDING INC.**
P.O. BOX 2046 145 BUSINESS BLVD. ALMA, GEORGIA
(912) 632–4440 FAX (912) 632–2623

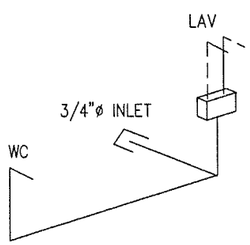
| | | |
|---|---|---|
| DATE: 5–19–03 | | |
| SCALE : NTS | | |
| CODES: SEE NOTES | REVISIONS: | BY: |
| LABELS: SEE NOTES | 1 7–23–04 | T.L.H. |
| TLB2309–15 A/B 24x 36 EDUCATION | | SHEET 1 OF 5 |
| COVER SHEET | JOB NO. 2040–1027 | |






DWV RISER NTS




SUPPLY RISER -NTS-

| COLUMN STRAPPING SCHEDULE: | |
|---|---|
| (A) (2) 2x4 SPF #2 THIS HALF. | (B) (2) 2x4 SPF #2 EACH HALF |
| (C) (3) 2x4 SPF #2 THIS HALF. | (D) (3) 2x4 SPF #2 EACH HALF. |
| (E) (4) 2x4 SPF #2 THIS HALF. | (F) (4) 2x4 SPF #2 EACH HALF. |
| (G) (5) 2x4 SPF #2 THIS HALF. | (H) (5) 2x4 SPF #2 EACH HALF. |
| ✺ WITH RIDGE BEAM BEARING STIFFENER | |

NOTES:
1. ALL COLUMN STUDS SHALL BE GLUE/NAILED TOGETHER. PVA GLUE WITH 100% COVERAGE SHALL BE USED.
2. INSTALL TWO STEEL STRAPS AT EACH STUD OF EACH COLUMN.
3. COLUMN STUDS SHALL NOT BE NOTCHED OR BORED.

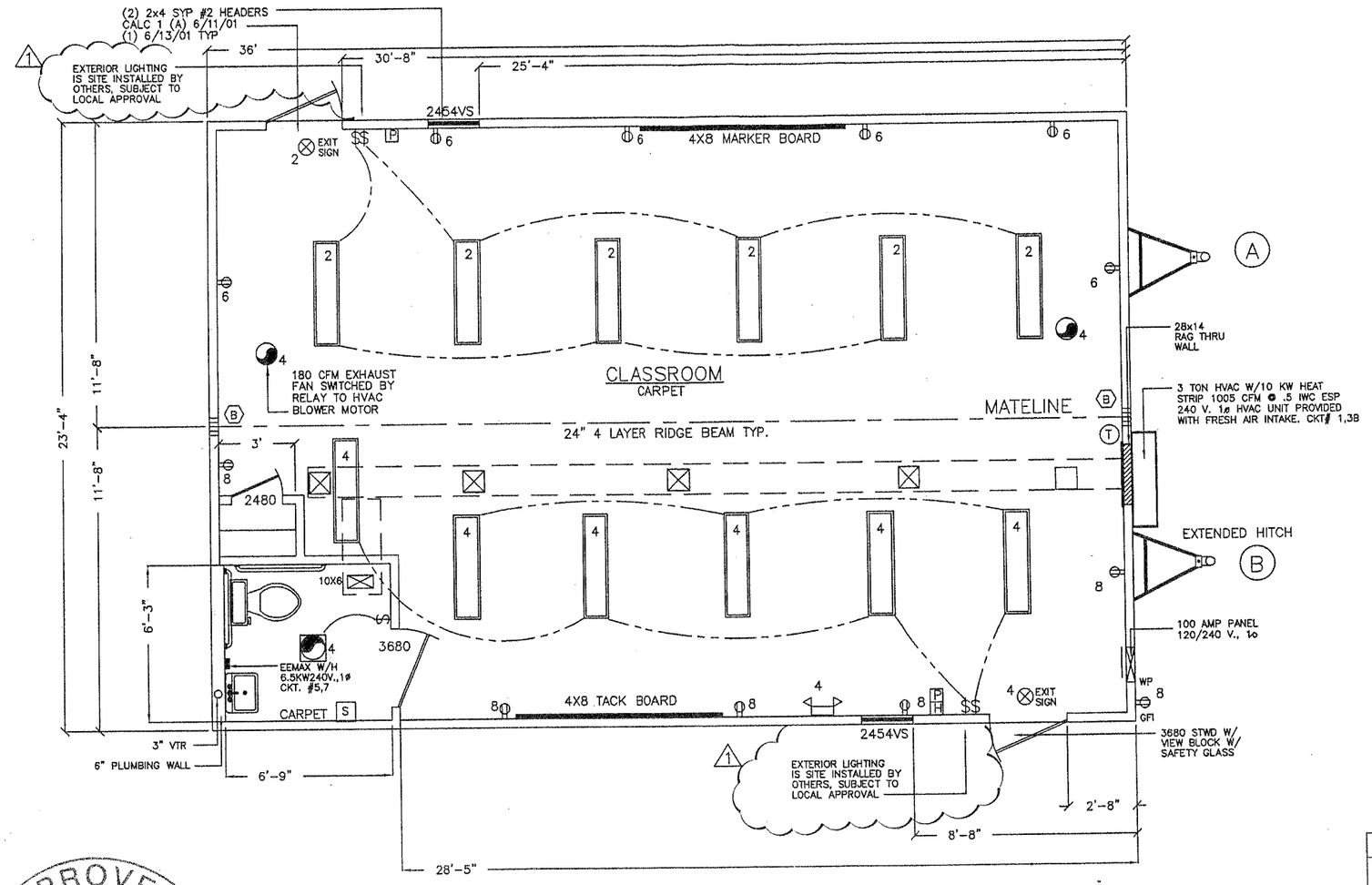
SUPPLY LINE SIZING IS BASED ON AN ASSUMED AVAILABLE PRESSURE OF 46 TO 60 PSI AT MAIN INLET AND SHOULD BE VERIFIED PRIOR TO CONSTRUCTION.

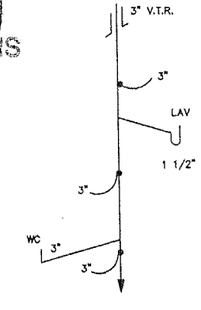
———— COLD
— — — — — HOT

ALL SUPPLY LINES SHALL BE 3/4", ALL STUB-UPS SHALL BE 1/2" UNLESS OTHERWISE SPECIFIED.

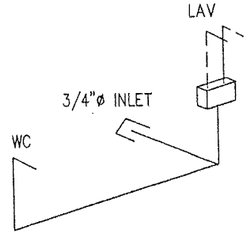
TOPLINE BUILDING INC.
P.O. BOX 2046 145 BUSINESS BLVD. ALMA, GEORGIA
(912) 632-4440 FAX (912) 632-2623

| | | |
|---|---|---|
| DATE: 5-19-03 | | |
| SCALE : 3/16"=1'-0" | | |
| CODES: SEE NOTES | REVISIONS: | BY: |
| LABELS: SEE NOTES | ⚠ 7-23-04 | T.L.H. |
| TLB2309-15 A/B 24x 36 EDUCATION | | SHEET 2 OF 5 |
| FLOOR PLAN | JOB NO. 2040-1027 | |




DWV RISER NTS




SUPPLY RISER -NTS-

| COLUMN STRAPPING SCHEDULE: | |
|---|---|
| (A) (2) 2x4 SPF #2 THIS HALF. | (B) (2) 2x4 SPF #2 EACH HALF |
| (C) (3) 2x4 SPF #2 THIS HALF. | (D) (3) 2x4 SPF #2 EACH HALF. |
| (E) (4) 2x4 SPF #2 THIS HALF. | (F) (4) 2x4 SPF #2 EACH HALF. |
| (G) (5) 2x4 SPF #2 THIS HALF. | (H) (5) 2x4 SPF #2 EACH HALF. |
| ✺ WITH RIDGE BEAM BEARING STIFFENER | |

NOTES:
1. ALL COLUMN STUDS SHALL BE GLUE/NAILED TOGETHER. PVA GLUE WITH 100% COVERAGE SHALL BE USED.
2. INSTALL TWO STEEL STRAPS AT EACH STUD OF EACH COLUMN.
3. COLUMN STUDS SHALL NOT BE NOTCHED OR BORED.

APPROVED
MAR 26 2003
REVIEWED BY: S. FRANCIS
HWCNC, P.C.

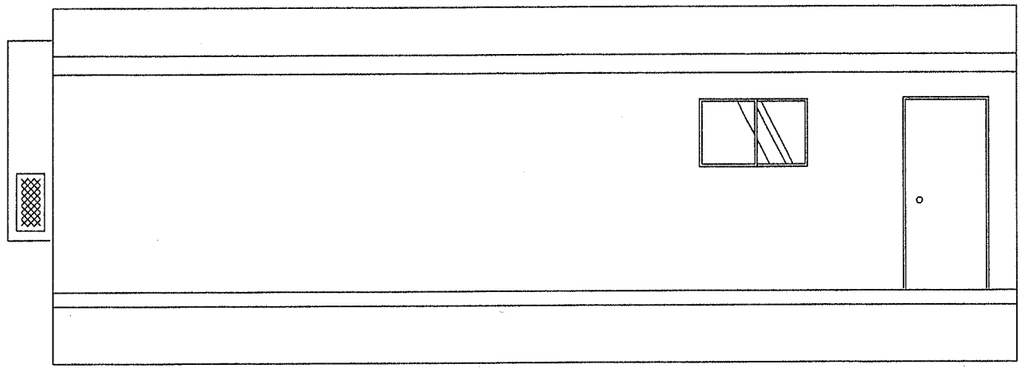
SUPPLY LINE SIZING IS BASED ON AN ASSUMED AVAILABLE PRESSURE OF 46 TO 60 PSI AT MAIN INLET AND SHOULD BE VERIFIED PRIOR TO CONSTRUCTION.

———— COLD
— — — — HOT

ALL SUPPLY LINES SHALL BE 3/4", ALL STUB-UPS SHALL BE 1/2" UNLESS OTHERWISE SPECIFIED.

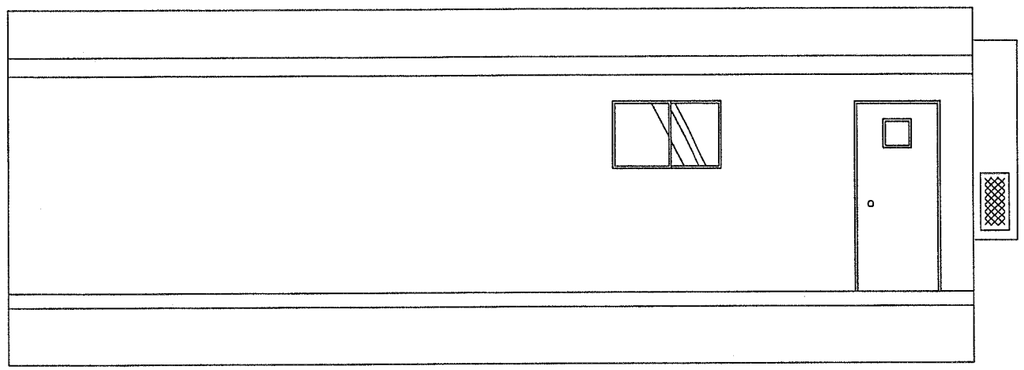

TOPLINE BUILDING INC.
P.O. BOX 2046 145 BUSINESS BLVD. ALMA, GEORGIA
(912) 632-4440 FAX (912) 632-2623


| | | |
|---|---|---|
| DATE: 5-19-03 | | |
| SCALE : 3/16"=1'-0" | | |
| CODES: SEE NOTES | REVISIONS: | BY: |
| LABELS: SEE NOTES | ⚠ 7-23-04 | T.L.H. |
| TLB2309-15 A/B 24x 36 EDUCATION | | SHEET |
| FLOOR PLAN (ALTERNATE) | JOB NO. 2040-1027 | 2A OF 5 |

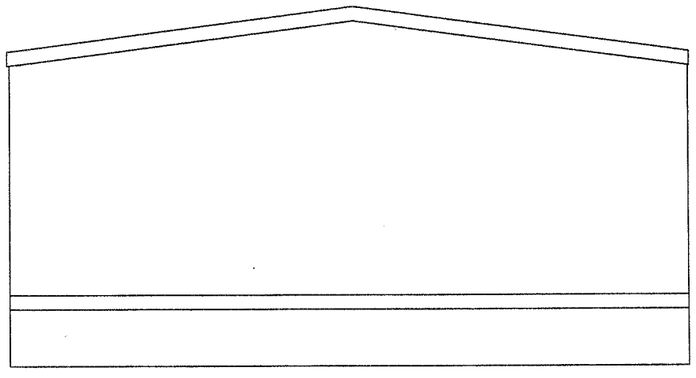


REAR ELEVATION

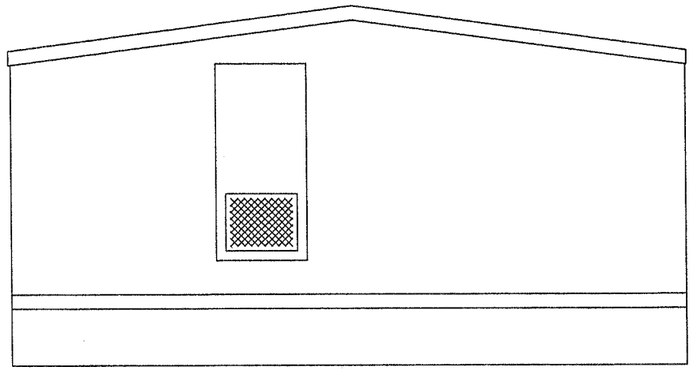
SCALE: 3/16"=1'-0"



FRONT ELEVATION



LEFT ELEVATION



RIGHT ELEVATION

ELEVATION NOTES: TYPICAL

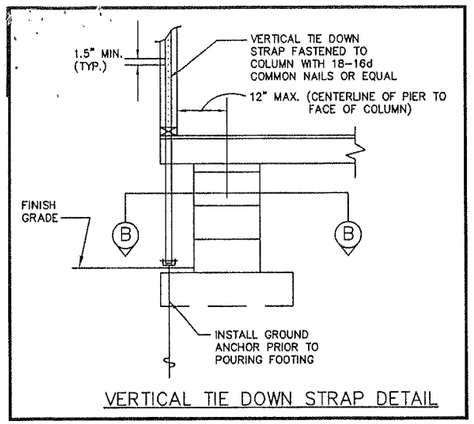
SEE-CROSS SECTION FOR METHOD OF ROOF VENTILATION

ACCESSIBLE RAMP(S), STAIR(S), AND HANDRAILS ARE SITE INSTALLED, DESIGNED BY OTHERS, AND SUBJECT TO LOCAL JURISDICTION.

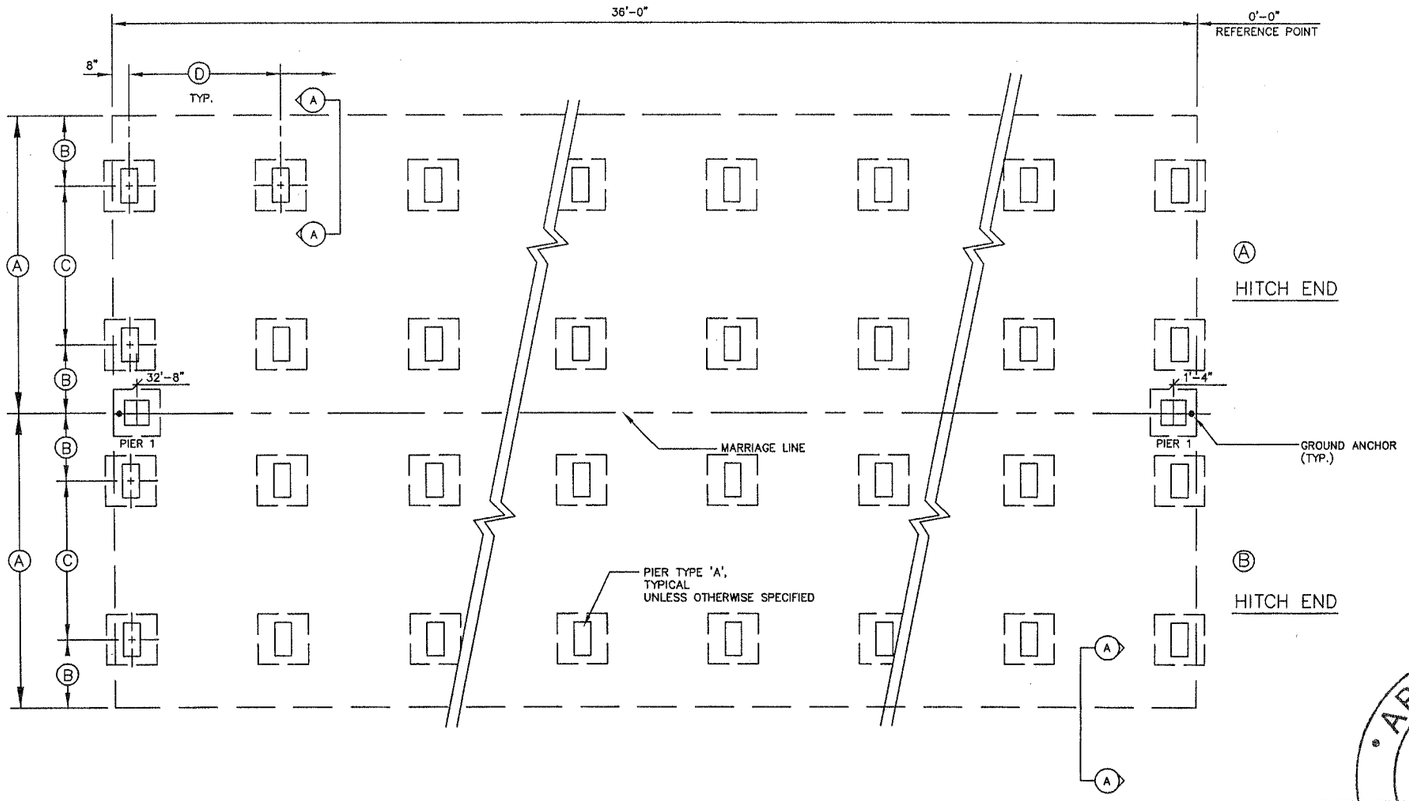
FOUNDATION ENCLOSURE (WHEN PROVIDED) MUST HAVE 1 SQUARE FOOT NET VENT AREA PER 1/150TH OF THE FLOOR AREA, AND AN 18" X 24" MINIMUM CRAWL SPACE ACCESS, SITE INSTALLED BY OTHERS SUBJECT TO LOCAL JURISDICTION.

APPROVED
MAY 21 2003
REVIEWED BY: C. BARROWS
HWCNC, P.C.

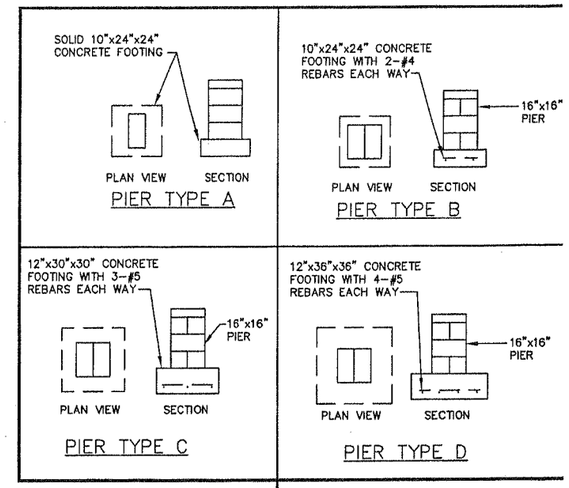
| TOPLINE BUILDING INC. | | |
|---|---|---|
| P.O. BOX 2046 145 BUSINESS BLVD. ALMA, GEORGIA (912) 632-4440 FAX (912) 632-2623 | | |
| DATE: 5-19-03 | | |
| SCALE : AS NOTED | | |
| CODES: SEE NOTES | REVISIONS: | BY: T.L.H. |
| LABELS: SEE NOTES | | |
| TLB2309-15 A/B 24x 36 EDUCATION | | SHEET 3 OF 5 |
| ELEVATIONS | JOB NO. 2040-1027 | |

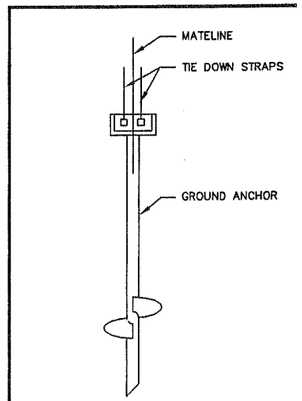



VERTICAL TIE DOWN STRAP DETAIL




NOTE:
THIS FOUNDATION PLAN IS PROVIDED FOR REFERENCE AS A TYPICAL STANDARD. ACTUAL FOUNDATION CONDITIONS MUST BE EVALUATED FOR APPLICABILITY IF THIS PLAN IS TO BE USED. ALTERNATE FOUNDATION PLANS MAY BE DESIGNED BY OTHERS IN ACCORDANCE WITH THE REQUIREMENTS OF THE JURISDICTION HAVING AUTHORITY.




SECTION C-C

## MARRIAGE WALL PIER REQUIREMENTS

| PIER NUMBER | MINIMUM SOIL BEARING CAPACITY | PIER TYPE | NUMBER OF VERTICAL TIE DOWN STRAPS REQ'D (EACH MODULE) |
|---|---|---|---|
| 1 | 2000 PSF | D | 1 |
| | 3000 PSF | C | 1 |
| | 2000 PSF | | |
| | 3000 PSF | | |
| | 2000 PSF | | |
| | 3000 PSF | | |
| | 2000 PSF | | |
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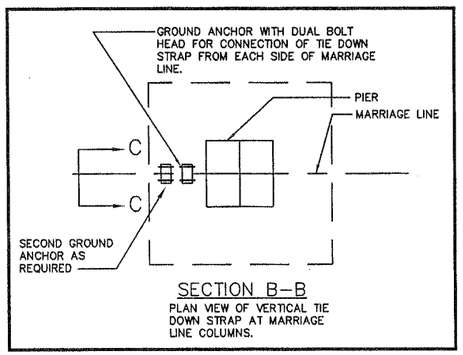
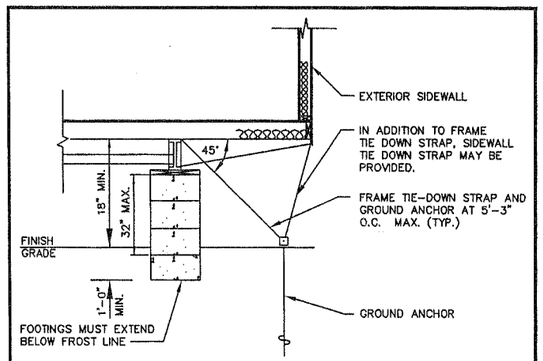
| | 2000 PSF | | |
| | 3000 PSF | | |




SECTION B-B
PLAN VIEW OF VERTICAL TIE DOWN STRAP AT MARRIAGE LINE COLUMNS.




SECTION A-A



## FOUNDATION DIMENSIONS

| A MODULE WIDTH | B PIER TO MODULE EDGE | C STEEL BEAM SPACING |
|---|---|---|
| 11'-8" | 32 1/4" | 75 1/2" |

| D MAXIMUM PIER SPACING | MINIMUM SOIL BEARING CAPACITY |
|---|---|
| 8'-10" | 2000 PSF |
| 8'-10" | 3000 PSF |

## FOUNDATION NOTES:

1. ALL FOUNDATION CONSTRUCTION, MATERIALS, AND INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES.
2. TIE-DOWN STRAPS TO BE 1-1/4"x .035" TYPE-1, FINISH B, GRADE 1 ZINC COATED STEEL STRAPPING CERTIFIED BY A REGISTERED ENGINEER OR ARCHITECT AS CONFORMING WITH ASTM D3953-91. TIE DOWN STRAPS AND CONNECTING HARDWARE SHALL HAVE 3150# MINIMUM WORKING CAPACITY.
3. EACH GROUND ANCHOR SHALL HAVE A WORKING CAPACITY NO LESS THAN THE SUM OF THE REQUIRED WORKING CAPACITIES OF ALL TIE DOWN STRAPS CONNECTED TO THE GROUND ANCHOR, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. DESIGN OF GROUND ANCHOR, INCLUDING SHAFT LENGTH, NUMBER AND DIAMETER OF HELIXES, ETC., TO BE AS SPECIFIED BY THE GROUND ANCHOR MANUFACTURER FOR THE ACTUAL SOIL TYPE ENCOUNTERED. IF THE HOLDING OR PULLOUT CAPACITIES OF GROUND ANCHORS ARE BELOW THE ASSUMED DESIGN VALUES, THE ARCHITECT/ENGINEER MUST BE CONSULTED FOR AN ALTERNATE ANCHORAGE DESIGN.
4. THE FIRST TIE-DOWN STRAP FROM ENDWALLS SHALL NOT EXCEED 1/2 THE MAXIMUM SPACING INDICATED.
5. ALL PIERS SHALL BE CONSTRUCTED OF 8"x 8"x 16" CONCRETE MASONRY UNITS CONFORMING TO ASTM C90. MASONRY UNITS SHALL BE LAID IN TYPE M OR S MORTAR OR COVERED WITH SURFACE BONDING CEMENT INSTALLED IN ACCORDANCE WITH ITS LISTING. PIER FOOTINGS SHALL BE AS DESCRIBED ABOVE.
6. MINIMUM CONCRETE FOOTING COMPRESSIVE STRENGTH 2,500 PSI AT 28 DAYS.
7. ALL REINFORCEMENT BARS SHALL COMPLY WITH ASTM A615, GRADE 60. REINFORCEMENT BARS SHALL BE EQUALLY SPACED AND PLACED WITH 3" CLEARANCE FROM BOTTOM AND SIDES OF THE FOOTING.
8. ALL PIERS SHALL BE CAPPED WITH 2x8 P.T. SILL PLATES, FULL LENGTH OF PIER. PIERS SHALL PROVIDE A TRUE AND EVEN BEARING SURFACE.
9. I-BEAM SUPPORT PIERS MAY BE INSTALLED LATERALLY (90° FROM THE ORIENTATION SHOWN ON THE FOUNDATION PLAN). CENTERLINE OF EACH PIER MUST BE LOCATED DIRECTLY BELOW THE I-BEAM CENTERLINE.
10. SOIL BEARING CAPACITY SHOWN ON THIS PLAN IS ASSUMED. IF THE ACTUAL SOIL BEARING CAPACITY IS LESS THAN 2,000 PSF, THE ARCHITECT/ENGINEER MUST BE CONSULTED FOR REQUIRED ALTERNATE FOUNDATION DESIGN. FOOTINGS SHALL BE PLACED ON NON-EXPANSIVE SOILS ONLY.
11. INSTALL BLOCK PIER ON EACH SIDE OF ALL EXTERIOR DOOR OPENINGS. (MANUFACTURER'S RECOMMENDATION ONLY - OPTIONAL WHEN NOT SHOWN) SLIGHT ADJUSTMENT MAY BE REQUIRED TO INSURE OPENABILITY AFTER INSTALLATION OF BUILDING IS COMPLETE.
12. THE AREA UNDER FOOTINGS AND FOUNDATIONS SHALL HAVE ALL VEGETATION, STUMPS, ROOTS, AND FOREIGN MATERIALS REMOVED PRIOR TO THEIR CONSTRUCTION.
13. THE FOUNDATION DIMENSIONS SHOWN ARE NOMINAL. AN INCREASE IN MODULE WIDTH SHOULD BE EXPECTED DUE TO MODULE EXPANSION, SETTING TOLERANCES, ETC. THE FOUNDATION CONTRACTOR SHOULD CONSULT WITH THE MANUFACTURER OF THE MODULES PROIR TO CONSTRUCTION OF THE FOUNDATION TO DETERMINE THE AMOUNT OF INCREASED WIDTH TO BE ADDED TO THE NOMINAL DIMENSIONS SHOWN ABOVE.

TOPLINE BUILDING INC.
P.O. BOX 2046 145 BUSINESS BLVD. ALMA, GEORGIA
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| | | |
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| DATE: 5-19-03 | | |
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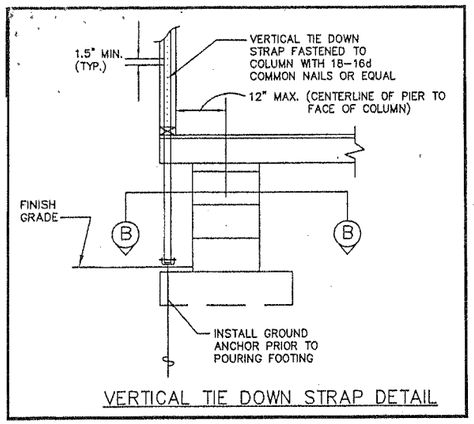
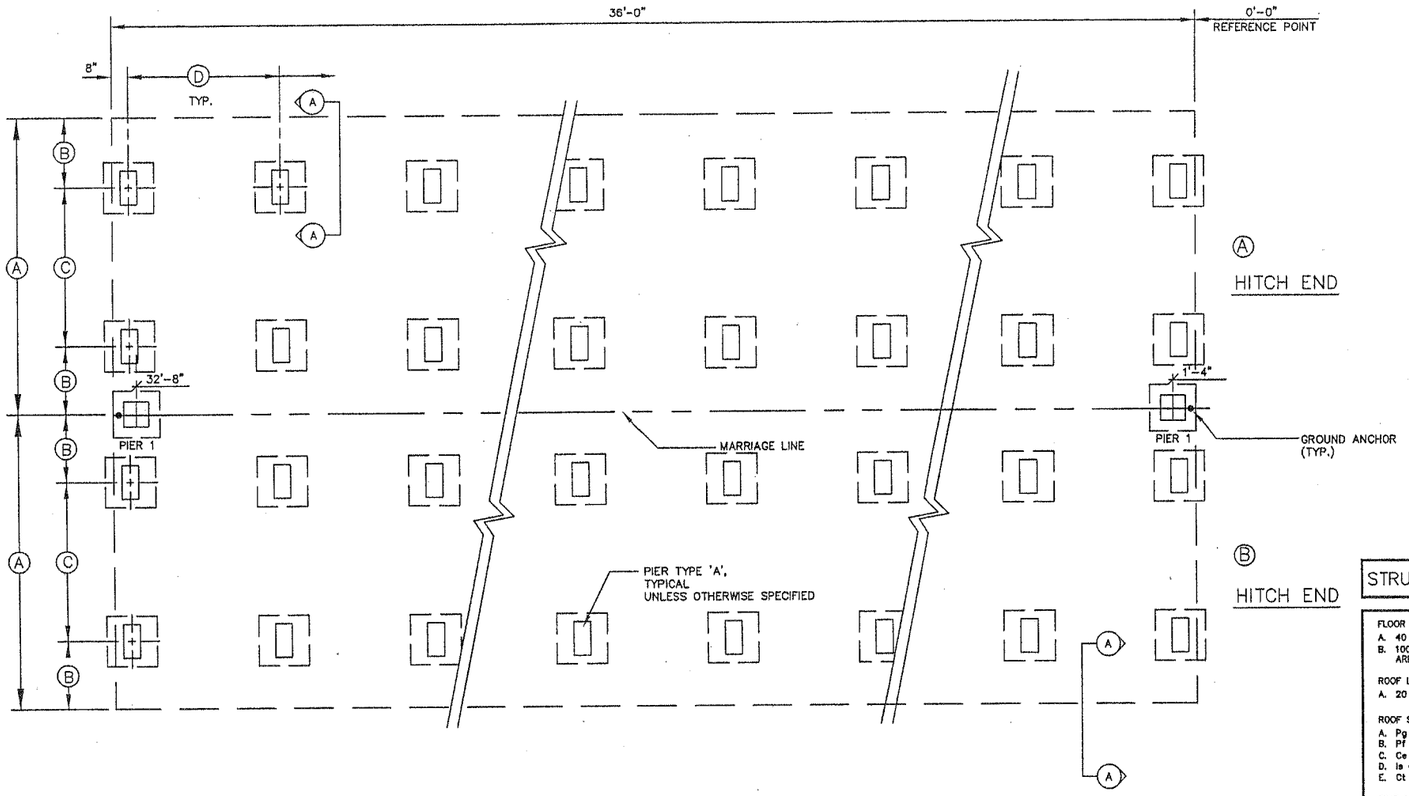
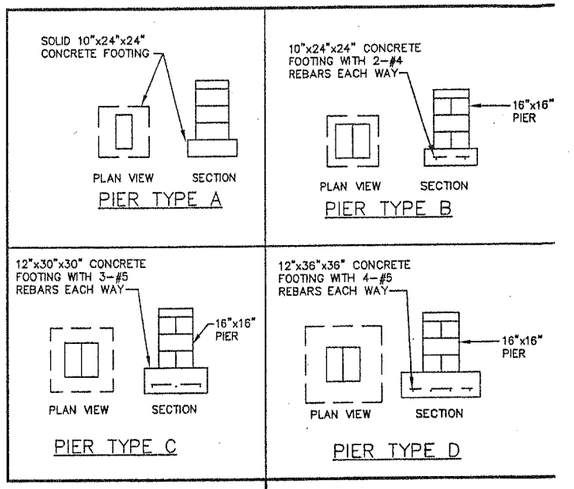
| LABELS: SEE NOTES | | |
| TLB2309-15 A/B 24x 36 EDUCATION | | SHEET 4 OF 5 |
| FOUNDATION PLAN | JOB NO. 2040-1027 | |




VERTICAL TIE DOWN STRAP DETAIL



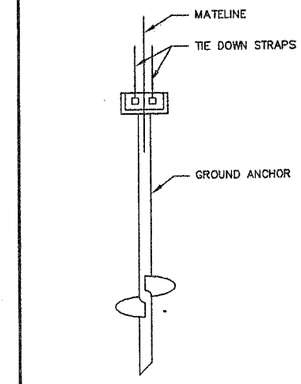

## STRUCTURAL LOAD LIMITATIONS

FLOOR LIVE LOAD:
A. 40 PSF
B. 1000 LB. CONCENTRATED LOAD OVER 30" x 30" AREA LOCATED ANYWHERE ON FLOOR.

ROOF LIVE LOAD:
A. 20 PSF

ROOF SNOW LOAD:
A. Pg = 20 PSF GROUND SNOW LOAD
B. Pf = 20 PSF FLAT ROOF SNOW LOAD
C. Ce = 1.2 SNOW EXPOSURE FACTOR
D. Is = 1.0 SNOW IMPORTANCE FACTOR
E. Ct = 1.0 SNOW THERMAL FACTOR

WIND LOAD:
A. 90 MPH WIND SPEED
B. Iw = 1.0 WIND IMPORTANCE FACTOR
C. C WIND EXPOSURE CATEGORY
D. GCpi = 0.18 INTERNAL PRESSURE COEFFICIENT
E. Pw = 24 PSF WALL COMPONENT & CLADDING LOAD
F. Pr = 45 PSF ROOF COMPONENT & CLADDING LOAD
G. THIS BUILDING IS NOT DESIGNED FOR PLACEMENT ON THE UPPER HALF OF A HILL OR ESCARPMENT EXCEEDING 15 FEET IN HEIGHT.




SECTION C–C

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## MARRIAGE WALL PIER REQUIREMENTS

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| | 3000 PSF | C | 1 |
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| | 3000 PSF | | |
| | 2000 PSF | | |
| | 3000 PSF | | |
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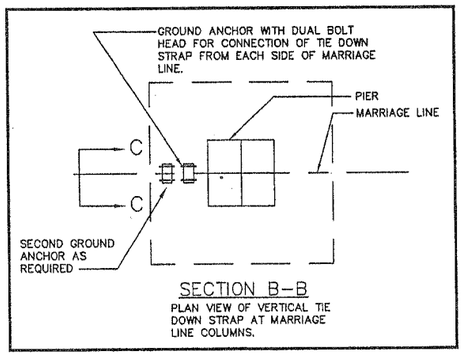
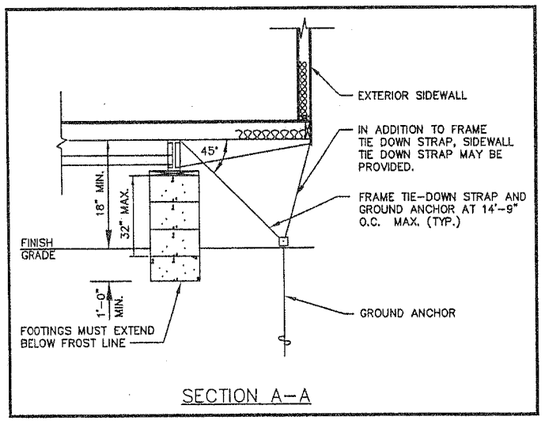
| | 3000 PSF | | |




SECTION B–B
PLAN VIEW OF VERTICAL TIE DOWN STRAP AT MARRIAGE LINE COLUMNS.




SECTION A–A

## FOUNDATION DIMENSIONS

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|---|---|---|
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APPROVED
MAY 29 2003
REVIEWED BY: C. BARROWS
HWCNC, P.C.


TOPLINE BUILDING INC.
P.O. BOX 2046 145 BUSINESS BLVD. ALMA, GEORGIA
(912) 632–4440 FAX (912) 632–2623


| | | |
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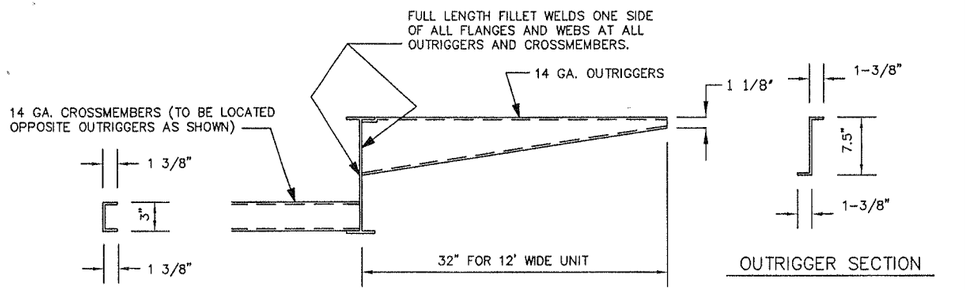
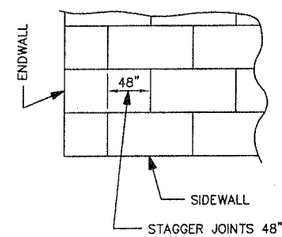
| DATE: 5–19–03 | | |
| SCALE : AS NOTED | | |
| CODES: SEE NOTES | REVISIONS: | BY: |
| LABELS: SEE NOTES | OPTIONAL FOUNDATION | T.L.H. |
| TLB2309–15 A/B 24x 36 EDUCATION | | SHEET 4AOF 5 |
| FOUNDATION PLAN | JOB NO. 2040–1027 | |



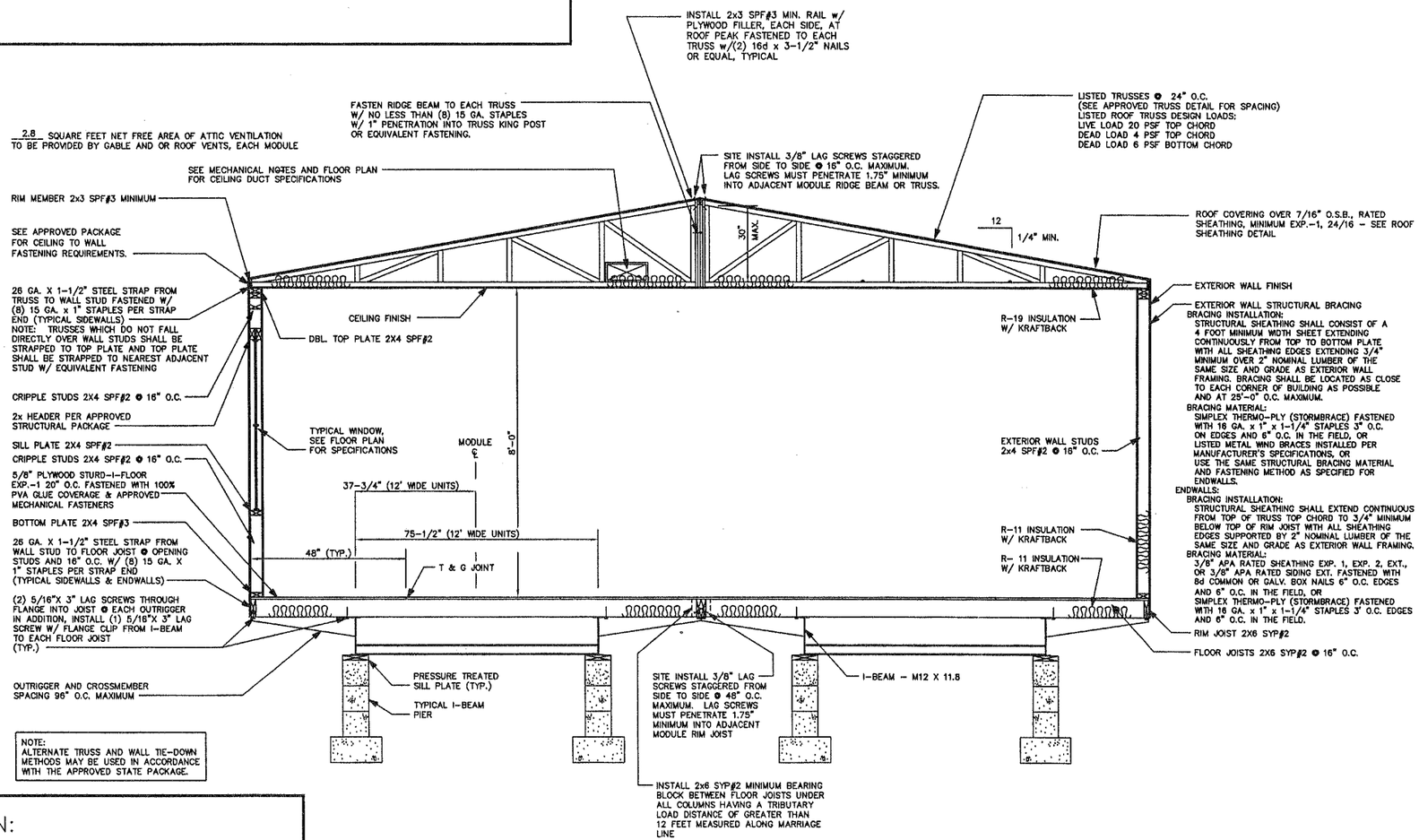

## GENERAL CROSS-SECTION NOTES:

1. UNLESS OTHERWISE SPECIFIED, ALL STEEL MUST COMPLY W/ ASTM A36, YIELD STRENGTH = 36 KSI.
2. ALL LAG SCREWS MUST COMPLY W/ ANSI/ ASME B18.2.1. $F_{YB}$= 60 KSI MINIMUM.
3. SEE FOUNDATION PLAN FOR PIER AND TIE-DOWN STRAPPING LOCATIONS, ORIENTATIONS, AND SPECIFICATIONS.




7/16" O.S.B. SHEATHING TO BE FASTENED TO TRUSSES W/ 8d COMMON NAILS @ 6" O.C. ON EDGES AND 12" O.C. IN FIELD

ROOF SHEATHING DETAIL




NOTE:
ALTERNATE TRUSS AND WALL TIE-DOWN METHODS MAY BE USED IN ACCORDANCE WITH THE APPROVED STATE PACKAGE.

APPROVED
MAY 21 2003
REVIEWED BY: C. BARROWS
HWCNC, P.C.

APPROVED TRUSS DESIGN:
TRUSS MANUFACTURER: UNIVERSAL
TRUSS DRAWING. # M1619R06

## RIDGE BEAM CONSTRUCTION:

4 LAYERS 3/4"X 24" PLYWOOD, RATED SHEATHING, EXP.-1, STRUCT.-1, 5 PLY/5 LAYER, 48/24 EACH HALF CONTINUOUS ENTIRE LENGTH OF BUILDING.

NOTES:

1. PLYWOOD FACE GRAIN MUST BE PARALLEL TO THE RIDGE BEAM SPAN.
2. ALL PLYWOOD BUTT JOINTS MUST BE STAGGERED 24" MINIMUM.
3. ALL RIDGE BEAM PLYWOOD LAMINATIONS MUST BE THE SAME DEPTH, THICKNESS, AND GRADE OF PLYWOOD. NO LUMBER OR PLYWOOD FLANGES ARE PERMITTED.
4. PLYWOOD MUST BE MANUFACTURED IN ACCORDANCE W/ PS I-95.
5. PLYWOOD LAMINATIONS IN EACH HALF OF THE UNITS MUST BE GLUE NAILED TO ADJACENT LAYERS IN ACCORDANCE W/ PDS SUPPLEMENT #5, W/ AN ADHESIVE COMPLYING W/ ASTM D2559, OR CA25-4.
6. PLYWOOD MUST NOT BE TREATED W/ A FIRE RETARDANT PROCESS.
7. MOISTURE CONTENT MUST BE LESS THAN 16%.
8. BEAMS SUPPORTED BY ENDWALL COLUMNS MUST EXTEND CONTINUOUS OVER COLUMNS TO EXTERIOR FACE OF ENDWALL.
9. INSTALL (2X4) X 20" SPF#3 RIDGE BEAM BEARING STIFFENER OVER SUPPORT COLUMNS, WHEN SPECIFIED ON FLOOR PLAN; FASTEN THE FACE OF THE STIFFENER TO THE RIDGE BEAM W/ 100% GLUE COVERAGE AND (6) 16 GA. X 2-1/2" STAPLES.

## INTERIOR FINISH MATERIAL:

CEILING - 1/2 INCH MINIMUM GYPSUM BOARD INSTALLED PER MANUFACTURER'S SPECIFICATIONS. (SEASPRAY FINISH W/ROSETTES).

WALL - 1/2 INCH MINIMUM GYPSUM BOARD (VINYL COVERED) THROUGHOUT.

FLOOR - BLOCK TILE THROUGHOUT.

## EXTERIOR FINISH MATERIAL:

ROOF - 30 GAUGE GALVANIZED METAL ROOF COVERING INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

WALL - .019 INCH ALUMINUM SIDING (OVER AN APPROVED MOISTURE BARRIER).


TOPLINE BUILDING INC.
P.O. BOX 2046 145 BUSINESS BLVD. ALMA, GEORGIA
(912) 632-4440 FAX (912) 632-2623


| | | |
|---|---|---|
| DATE: 5-19-03 | | |
| SCALE : NO SCALE | | |
| CODES: SEE NOTES | REVISIONS: | BY: T.L.H. |
| LABELS: SEE NOTES | | |
| TLB2309-15 A/B 24x 36 EDUCATION | | SHEET 5 OF 5 |
| CROSS SECTION | JOB NO. 2040-1027 | |

## GENERAL NOTES: N.C. BUILDING CODE, 2002 EDITION

1. ACCESS TO BUILDING FOR PERSONS IN WHEELCHAIRS IS DESIGNED BY AND FIELD BUILT BY OTHERS AND SUBJECT TO LOCAL JURISDICTION. THE PRIMARY ENTRANCE MUST BE ACCESSIBLE.
2. ALL DOORS SHALL BE OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY, TOOL, SPECIAL KNOWLEDGE OR EFFORT. MANUALLY OPERATED FLUSH BOLTS OR SURFACE BOLTS SHALL NOT BE USED.
3. ALL GLAZING WITHIN 24 INCH ARC OF DOORS, WHOSE BOTTOM EDGE IS LESS THAN 60 INCHES ABOVE THE FLOOR, AND ALL GLAZING IN DOORS SHALL BE SAFETY, TEMPERED OR ACRYLIC PLASTIC SHEET.
4. FLOOR DESIGN LIVE LOAD – 40 PSF CLASSROOM.
5. MAXIMUM WIND SPEED –130 MPH, FOR ELEVATIONS OF 4500' AND ABOVE.
6. SEISMIC PERFORMANCE CATEGORY C.
7. OCCUPANCY IS EDUCATIONAL (6 YRS AND OLDER)
8. OCCUPANT LOAD IS BASED ON 1 PERSON PER 20 SQUARE FEET OF NET CLASSROOM FLOOR AREA FOR MEANS OF EGRESS PURPOSES.
9. ALL STEEL STRAPS REFERENCED ON FLOOR PLAN SHALL BE 1.5 INCH x 26 GA. WITH 8 – 15 GA. x 7/16 INCH CROWN x 1 INCH STAPLES EACH END OF STRAP OR EQUIVALENT FROM RIDGE BEAM TO COLUMN, AND COLUMN TO FLOOR.
10. THIS BUILDING HAS NOT BEEN DESIGNED FOR COASTAL HAZARD AREAS, OCEAN HAZARD OR REGULATORY FLOOD PLAIN AREAS.
11. CONSTRUCTION IS TYPE VB, UNPROTECTED.
12. MINIMUM CORRIDOR WIDTH IS 72 INCHES.
13. MINIMUM CORRIDOR FINISH IS CLASS B (GYPSUM).
14. THE BUILDINGS FIRE ALARM SYSTEM (PROTECTIVE SIGNALING SYSTEMS, FIRE DETECTION SYSTEMS, ETC.) SHALL BE DESIGNED IN ACCORDANCE WITH NFPA 101 AND NFPA 72 AND SITE INSTALLED BY OTHERS SUBJECT TO LOCAL BUILDING OFFICIAL REVIEW AND APPROVAL. THE FIRE ALARM CONTROL PANEL MUST BE INSTALLED IN A HIGHLY VISIBLE LOCATION ACCEPTABLE TO THE LOCAL AUTHORITY HAVING JURISDICTION. (THE FACP CANNOT BE INSTALLED IN A CLOSET OR BATHROOM).
15. REQUIRED BATH FACILITIES ARE LOCATED IN ADJACENT BUILDING SUBJECT TO LOCAL JURISDICTION APPROVAL. SEE ATTAHED BATH LETTER.
16. PROVISIONS FOR EXIT DISCHARGE LIGHTING ARE THE RESPONSIBILITY OF THE BUILDING OWNER AND SUBJECT TO LOCAL JURISDICTION APPROVAL WHEN NOT SHOWN ON THE FLOOR PLAN (INCLUDING EMERGENCY LIGHTING, WHEN REQUIRED).
17. PORTABLE FIRE EXTINGUISHER PER N.F.P.A. – 10 INSTALLED BY OTHERS ON SITE, AND SUBJECT TO LOCAL JURISDICTION.

## ELECTRICAL NOTES: N.C. ELECTRICAL CODE 2002 ED.

1. ALL CIRCUITS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE APPROPRIATE ARTICLES OF THE NATIONAL ELECTRICAL CODE (NEC).
2. WHEN LIGHT FIXTURES ARE INSTALLED IN CLOSETS THEY SHALL BE SURFACE MOUNTED OR RECESSED. INCANDESCENT FIXTURES SHALL HAVE COMPLETELY ENCLOSED LAMPS. SURFACE MOUNTED INCANDESCENT FIXTURES SHALL HAVE A MINIMUM CLEARANCE OF 12 INCHES AND ALL OTHER FIXTURES SHALL HAVE A MINIMUM CLEARANCE OF 6 INCHES FROM "STORAGE AREA" AS DEFINED BY NEC 410–8(a).
3. WHEN WATER HEATERS ARE INSTALLED THEY SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE WATER HEATERS SERVED. THE BRANCH CIRCUIT SWITCH OR CIRCUIT BREAKER SHALL BE PERMITTED TO SERVE AS THE DISCONNECTING MEANS ONLY WHERE THE SWITCH OR CIRCUIT BREAKER IS WITHIN SIGHT FROM THE WATER HEATER OR IS CAPABLE OF BEING LOCKED IN THE OPEN POSITION.
4. HVAC EQUIPMENT SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE EQUIPMENT SERVED. A UNIT SWITCH WITH A MARKED "OFF" POSITION THAT IS A PART OF THE HVAC EQUIPMENT AND DISCONNECTS ALL UNGROUNDED CONDUCTORS SHALL BE PERMITTED AS THE DISCONNECTING MEANS WHERE OTHER DISCONNECTING MEANS ARE ALSO PROVIDED BY A READILY ACCESSIBLE CIRCUIT BREAKER.
5. PRIOR TO ENERGIZING THE ELECTRICAL SYSTEM THE INTERRUPTING RATING OF THE MAIN BREAKER MUST BE DESIGNED AND VERIFIED AS BEING IN COMPLIANCE WITH SECTION 110–9 OF THE NEC BY LOCAL ELECTRICAL CONSULTANT.
6. THE MAIN ELECTRICAL PANEL AND FEEDERS ARE DESIGNED BY OTHERS, SITE INSTALLED AND SUBJECT TO LOCAL JURISDICTION APPROVAL.
7. ALL CIRCUITS CROSSING OVER MODULE MATING LINE(S) SHALL BE SITE CONNECTED WITH APPROVED ACCESSIBLE JUNCTION BOXES OR CABLE CONNECTORS.
8. EXTERIOR LIGHTING NOT INTENDED FOR 24 HOUR USE SHALL BE AUTOMATICALLY SWITCHED BY EITHER A TIMER OR PHOTOCELL.
9. FIRE ALARM PULL STATION OPERABLE DEVICE SHALL BE LOCATED 42 TO 45 INCHES ABOVE THE FLOOR. FIRE ALARM HORN/STROBE DEVICE SHALL BE WALL MOUNTED WITH THE BOTTOM EDGE 80 INCHES ABOVE THE FLOOR.
10. ALL RECEPTACLES INSTALLED IN WET LOCATIONS (EXTERIOR) SHALL BE IN WEATHER PROOF (WP) ENCLOSURES. THE INTEGRITY OF WHICH IS NOT AFFECTED WHEN AN ATTACHMENT PLUG CAP IS INSERTED OR REMOVED.

## PLUMBING NOTES: N.C. PLUMB. CODE 2002 EDITION

1. TOILETS SHALL BE ELONGATED WITH NONABSORBENT OPEN FRONT SEATS.
2. REST ROOM WALLS SHALL BE COVERED WITH NONABSORBENT MATERIAL TO A MINIMUM HEIGHT OF 48 INCHES A.F.F. FLOORS SHALL HAVEA SMOOTH, HARD, NONABSORBENT SURFACE THAT EXTENDS UPWARD ONTO THE WALLS AT LEAST 6 INCHES.
3. CUSTOMER ASSUMES ALL RESPONSIBILITY FOR DRINKING WATER FACILITIES AND SERVICE SINK WHEN NOT SHOWN ON FLOOR PLAN.
4. ALL PLUMBING FIXTURES SHALL HAVE SEPARATE SHUTOFF VALVES.
5. WATER HEATER SHALL HAVE SAFETY PAN WITH 1 INCH DRAIN TO EXTERIOR, T & P RELIEF VALVE WITH DRAIN TO EXTERIOR, AND A SHUT OFF VALVE WITHIN 3 FEET ON A COLD WATER SUPPLY LINE.
6. DWV SYSTEM SHALL BE EITHER ABS OR PVC – DWV.
7. WATER SUPPLY LINES SHALL BE POLYBUTYLENE, CPVC, OR COPPER; WHEN POLY–BUTYLENE SUPPLY LINES ARE INSTALLED THE MAXIMUM WATER HEATER TEMPERATURE SETTING IS 180° F. THE POLYBUTYLENE PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS LIMITATIONS AND INSTRUCTIONS.
8. WATER CLOSETS ARE TANK TYPE AND URINALS ARE FLUSH TANK TYPE UNLESS OTHERWISE SPECIFIED.
9. BUILDING DRAIN AND CLEANOUTS ARE DESIGNED AND SITE INSTALLED BY OTHERS, SUBJECT TO LOCAL JURISDICTION APPROVAL.
10. SHOWERS SHALL BE CONTROLLED BY AN APPROVED MIXING VALVE WITH A MAXIMUM WATER OUTLET TEMPERATURE OF 120°F (48.8°C).
11. THERMAL EXPANSION DEVICE, IF REQUIRED BY WATER HEATER INSTALLED, AND IF NOT SHOWN ON PLUMBING PLAN, IS DESIGNED AND SITE INSTALLED BY OTHERS, SUBJECT TO LOCAL APPROVAL.
12. WATER PIPES INSTALLED IN A WALL EXPOSED TO THE EXTERIOR SHALL BE LOCATED ON THE HEATED SIDE OF THE WALL INSULATION. WATER PIPING INSTALLED IN AN UNCONDITIONED ATTIC SHALL BE INSULATED WITH AN INSULATION OF R–6.5 MINIMUM.
13. THIS UNIT MUST BE CONNECTED TO A PUBLIC WATER SUPPLY AND SEWER SYSTEM IF THESE ARE AVAILABLE.
14. PIPING IN UNCONDITIONED SPACES MUST BE PROTECTED WITH INSULATION HAVING A MINIMUM R FACTOR OF 6.5 IN ACCORDANCE WITH SECTION 305.6.

## ACCESSIBILITY NOTES: N.C. ACCESSIBILTY CODE, 1999 EDITION W/2002 AMENDMENTS

1. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN SHALL BE DISPLAYED AT ALL ACCESSIBLE RESTROOM FACILITIES AND AT ACCESSIBLE BUILDING ENTRANCES UNLESS ALL ENTRANCES ARE ACCESSIBLE. INACCESSIBLE ENTRANCES SHALL HAVE DIRECTIONAL SIGNS INDICATING THE ROUTE TO THE NEAREST ACCESSIBLE ENTRANCE.
2. ACCESSIBLE DRINKING FOUNTAINS SHALL HAVE A SPOUT HEIGHT NO HIGHER THAN 36 INCHES ABOVE THE FLOOR AND EDGE OF BASIN NO HIGHER THAN 34 INCHES ABOVE THE FLOOR FOR INDIVIDUALS IN WHEELCHAIRS. ADDITIONALLY, DRINKING WATER PROVISIONS SHALL BE MADE FOR INDIVIDUALS WHO HAVE DIFFICULTY IN BENDING.
3. WHERE STORAGE FACILITIES SUCH AS CABINETS, SHELVES, CLOSETS, AND DRAWERS ARE PROVIDED AT LEAST ONE OF EACH TYPE PROVIDED SHALL CONTAIN STORAGE SPACE COMPLYING WITH THE FOLLOWING: DOORS, ETC. TO SUCH SPACES SHALL BE ACCESSIBLE (Ie. TOUCH LATCHES, U–SHAPED PULLS); SPACES SHALL BE WITHIN 15 INCHES MINIMUM AND 48 INCHES MAXIMUM OF THE FLOOR FOR FORWARD REACH OR 9 INCHES MINIMUM AND 54 INCHES MAXIMUM, OF THE FLOOR FOR SIDE REACH; CLOTHES RODS SHALL BE A MAXIMUM OF 54 INCHES ABOVE THE FLOOR (48 INCHES MAXIMUM WHEN DISTANCE FROM WHEELCHAIR TO ROD EXCEEDS 10 INCHES).
4. CONTROLS, DISPENSERS, RECEPTACLES AND OTHER OPERABLE EQUIPMENT SHALL BE NO HIGHER THAN 45 INCHES ABOVE THE FLOOR FOR FRONT APPROACH OR 54 INCHES ABOVE THE FLOOR FOR SIDE APPROACH. RECEPTACLES ON WALLS SHALL BE MOUNTED NO LESS THAN 15 INCHES ABOVE THE FLOOR. EXCEPTION: HEIGHT LIMITATIONS DO NOT APPLY WHERE THE USE OF SPECIAL EQUIPMENT DICTATES OTHERWISE OR WHERE ELECTRICAL RECEPTACLES ARE NOT NORMALLY INTENDED FOR USE BY BUILDING OCCUPANTS.
5. WHERE EMERGENCY WARNING SYSTEMS ARE PROVIDED, THEY SHALL INCLUDE BOTH AUDIBLE AND VISUAL ALARMS. THE VISUAL ALARMS SHALL BE LOCATED THROUGHOUT, INCLUDING RESTROOMS, AND PLACED 80 INCHES ABOVE THE FLOOR OR 6 INCHES BELOW CEILING, WHICHEVER IS LOWER.
6. ALL DOORS SHALL BE OPENABLE BY A SINGLE EFFORT. THE MAXIMUM FORCE REQUIRED TO OPEN A DOOR SHALL NOT EXCEED 8.5 LBS. FOR EXTERIOR SWINGING DOORS AND 5 LBS. FOR ALL SLIDING, FOLDING AND INTERIOR SWINGING DOORS.
7. FLOOR SURFACES SHALL BE STABLE, FIRM, AND SLIP–RESISTANT. CHANGES IN LEVEL BETWEEN 0.25 INCH AND 0.5 INCH SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2. CHANGES IN LEVEL GREATER THAN 0.5 INCH REQUIRE RAMPS. CARPET PILE THICKNESS SHALL BE 0.5 INCH MAX. GRATINGS IN FLOOR SHALL HAVE SPACES NO GREATER THAN 0.5 INCH WIDE IN ONE DIRECTION. DOORWAY THRESHOLDS SHALL NOT EXCEED 0.5 INCH IN HEIGHT.
8. ACCESSIBLE WATER CLOSETS SHALL BE 17 INCHES TO 19 INCHES FROM THE FLOOR TO THE TOP OF THE SEAT. GRAB BARS SHALL BE 36 INCHES LONG MINIMUM WHEN LOCATED BEHIND WATER CLOSET AND 42 INCHES MINIMUM WHEN LOCATED ALONG SIDE OF WATER CLOSET, AND SHALL BE MOUNTED 33 INCHES TO 36 INCHES ABOVE THE FLOOR.
9. ACCESSIBLE URINALS SHALL BE STALL–TYPE OR WALL HUNG WITH ELONGATED RIMS AT A MAXIMUM OF 17 INCHES ABOVE THE FLOOR.
10. ACCESSIBLE LAVATORIES SHALL BE MOUNTED WITH THE RIM NO HIGHER THAN 34 INCHES ABOVE THE FLOOR AND A CLEARANCE OF AT LEAST 29 INCHES ABOVE THE FLOOR TO THE BOTTOM OF THE APRON.
11. ACCESSIBLE SINKS SHALL BE MOUNTED WITH THE RIM NO HIGHER THAN 34 INCHES ABOVE THE FLOOR AND A CLEARANCE OF AT LEAST 27 INCHES HIGH, 30 INCHES WIDE, AND 19 INCHES DEEP UNDERNEATH SINK. THE SINK DEPTH SHALL BE 6.5 INCHES MAXIMUM.
12. HOT WATER AND DRAIN PIPES UNDER ACCESSIBLE LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. INSULATION OR PROTECTION MATERIALS MAY BE SITE INSTALLED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER ACCESSIBLE LAVATORIES AND SINKS.
13. ACCESSIBLE LAVATORIES AND SINKS SHALL HAVE ACCESSIBLE FAUCETS (Ie. LEVER–OPERATED, PUSH–TYPE, ELECTRONICALLY CONTROLLED).
14. WHERE MIRRORS ARE PROVIDED IN REST ROOM, AT LEAST ONE SHALL BE PROVIDED WITH ITS BOTTOM EDGE NO HIGHER THAN 40 INCHES ABOVE THE FLOOR.
15. WHERE MEDICINE CABINETS ARE PROVIDED, AT LEAST ONE SHALL BE LOCATED WITH A USABLE SHELF NO HIGHER THAN 44 INCHES ABOVE THE FLOOR.
16. GRAB BARS REQUIRED FOR ACCESSIBILITY SHALL BE 1.25 INCHES TO 1.5 INCHES IN DIAMETER WITH 1.5 INCHES CLEAR SPACE BETWEEN THE BAR AND THE WALL.
17. WATER CLOSET FLUSH CONTROL SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREA.
18. TOLIET STALL DOORS SHALL BE THE SELF–CLOSING TYPE.
19. DOORS TO ALL ACCESSIBLE SPACES SHALL HAVE ACCESSIBLE HARDWARE (i.e. LEVER–OPERATED, PUSH–TYPE, U–SHAPED) MOUNTED NO HIGHER THAN 48 INCHES ABOVE THE FLOOR.

## ATTENTION LOCAL INSPECTIONS DEPARTMENT

SET UP INSTRUCTIONS FOR THIS MODULE UNIT ARE INCLUDED BY ATTACHMENT TO THESE PLANS. ANY PLANS SET WHICH DOES NOT INCLUDE AN ATTACHMENT ENTITLED "INSTALLATION INSTRUCTIONS" ARE INCOMPLETE.

THE FOLLOWING ITEMS HAVE NOT BEEN COMPLETED BY THE MANUFACTURER, HAVE NOT BEEN INSPECTED BY HWCNC,P.C. AND ARE NOT CERTIFIED BY THE NORTH CAROLINA MODULAR LABEL. NOTE THAT THIS LIST DOES NOT NECESSARILY LIMIT THE ITEMS OF WORK AND MATERIAL THAT MAY BE REQUIRED FOR A COMPLETE INSTALLATION. ALL SITE RELATED ITEMS ARE SUBJECT TO LOCAL JURISDICTION APPROVAL. CODE COMPLIANCE MUST BE DETERMIND AT THE LOCAL LEVEL.

1. THE COMPLETE FOUNDATION SUPPORT AND TIE DOWN SYSTEM.
2. RAMPS, STAIRS AND GENERAL ACCESS TO THE BUILDING.
3. PORTABLE FIRE EXTINGUISHER(S).
4. DRINKING FOUNTIAN, BUILDING DRAINS, CLEANOUTS, AND HOOK–UP TO PLUMBING SYSTEM.
5. ELECTRICAL SERVICE HOOK–UP (INCLUDING FEEDERS) TO THE BUILDING.
6. THE MAIN ELECTRICAL PANEL AND SUB–FEEDERS (MULTI–UNITS ONLY)
7. CONNECTION OF ELECTRICAL CIRCUITS CROSSING OVER MODULE MATELINE(S) – (MULTI–UNITS ONLY).
8. STRUCTURAL AND AESTHETIC INTERCONNECTIONS BETWEEN MODULES (MULTI–UNITS ONLY).
9. FIRE STOPPING AND AIR INFILTRATION STOPPING SHALL BE INSTALLED BETWEEN MODULES IN ACCORDANCE WITH NCBC. VOL. I SECTIONS 705.3 AND 2305. STOPPING MATERIAL AND INSTALLATION IS DESIGNED BY OTHERS.

## NOTICE

HWCNC, P.C. APPROVAL IS NOT VALID IN THOSE PORTIONS OF LISTED STATE(S) WHERE SNOW LOADS DETERMINED FROM LOCAL METEOROLOGICAL DATA EXCEED THE LISTED LIVE LOAD.

## SYMBOLS

- (S) SMOKE DETECTOR
- DUPLEX RECEPTACLE 120 V.
- SINGLE RECEPTACLE 240 V.
- INCANDESCENT LIGHT WITH 1– 60 W. BULB
- VENT FAN
- COMB. VENT FAN & LIGHT
- SUPPLY AIR REGISTER
- RETURN AIR REGISTER
- FLOOD LIGHT W/2–150W BULBS

J–BOXES ONLY

- P FIRE ALARM PULL STATION
- H FIRE ALARM HORN/STROBE
- S FIRE ALARM STROBE LIGHT
- T THERMOSTAT
- FLUORESCENT FIXTURE WITH 2– 40W TUBES
- EXIT SIGNS W/BATT BACK–UP
- J JUNCTION BOX (NON POWERED UNLESS CIRCUIT NO. IS SHOWN)
- TELEPHONE JACK
- $ $_3$ SWITCH & 3 WAY SWITCH
- EMERGENCY LIGHT WITH BATTERY BACKUP

## PLUMBING SCHEDULE:

| QTY. | ITEM | MFG. | MODEL NO. |
|---|---|---|---|
| 1 | ADULT H/C TOILET | UNIVERSAL RUNDLE | 4471 (TANK W/ LID) 4290 BOWL |
| 1 | WALL MT. LAV. FAUCET | EMPIRE | 4048 |
| 1 | WALL MT. LAV. | FLORIDA | 5017 |
| 1 | EEMAX WATERHEATER | EEMAX | EX65 |
| 1 | 42" GRAB BAR | HARNEY | 71765–SS |
| 2 | 36" GRAB BAR | HARNEY | 71766–SS |

## ELECTRICAL SCHEDULE:

| QTY. | ITEM | MFG. | MODEL NO. |
|---|---|---|---|
| 15 | LIGHT FIXTURE 240 | MATALUX | W240A–120V–LE3 |
| 1 | EMERGENCY LTS. | SURELITE | CC–2 |
| 2 | EXIT SIGNS UNLIGHTED | TAMLITE | EZXTEU2RW |
| 1 | EXHAUST FAN | NUTONE | 8664RP |
| 1 | 100 AMP PANEL BOX | CUTLER/HAMMER | BR1020B100PK |
| 2 | 180 CFM EXHAUST FAN | BROAN | BROAN505 |

## HVAC SCHEDULE:

| QTY. | ITEM | MFG. | MODEL NO. |
|---|---|---|---|
| 1 | THERMOSTAT | LUXPRO | PSM40 |
| 5 | 10x10 SUPPLY DIFFUSER | U.S. AIRE | 1104M |
| 1 | HVAC WALL MOUNT UNITS | BARD | WA361A10 |
| | DUCTBOARD | JOHNS/MANVILLE | 5x16=162350–10 8x18= 162350–10 |
| 1 | 10x6 SUPPLY DIFFUSER | U.S. AIRE | 1103M |

## ELECTRICAL SCHEDULE

| CIRCUIT | NOMENCLATURE | BREAKER (AMPS) | WIRE (CU.) |
|---|---|---|---|
| 1, 3 | HVAC | 60 A (2P) HACR | 6–2 #8 GRND. |
| 5, 7 | W/H | 30A (2P) | 10–2 NM |
| 6, 8 | RECEPTACLES | 20 A | 12–2 NM |
| 2, 4 | LIGHTING | 20 A | 12–2 NM |
| | | | |
| | | | |

## ELECTRICAL PANEL SIZING:

| DESCRIPTION | KVA |
|---|---|
| GENERAL LIGHTING .0035 KW/SF X 840 SF X 1.25= | 3.7 |
| 9 RECEPTS AT 180VA/1000= | 1.6 |
| WATER HEATER 6.5 KW = | 6.5 |
| 3 FANS AT .3 KW X 1.25= | 1.2 |
| HVAC | 10.5 |
| OTHER | – |
| TOTAL 23.5 KW | |
| TOTAL/240 X 1000= 98 AMPS | |
| INSTALL 100 AMP PANEL 120/240 V 1ø | |

APPROVED
MAY 21 2003
REVIEWED BY: C. BARROWS
HWCNC, P.C.

## STRUCTURAL LOAD LIMITATIONS

FLOOR LIVE LOAD:
A. 40 PSF
B. 1000 LB. CONCENTRATED LOAD OVER 30" x 30" AREA LOCATED ANYWHERE ON FLOOR.

ROOF LIVE LOAD:
A. 20 PSF

ROOF SNOW LOAD:
A. Pg = 20 PSF GROUND SNOW LOAD
B. Pf = 20 PSF FLAT ROOF SNOW LOAD
C. Ce = 1.2 SNOW EXPOSURE FACTOR
D. Is = 1.0 SNOW IMPORTANCE FACTOR
E. Ct = 1.0 SNOW THERMAL FACTOR

WIND LOAD:
A. 130 MPH WIND SPEED
B. Iw = 1.0 WIND IMPORTANCE FACTOR
C. C WIND EXPOSURE CATEGORY
D. GCpi = 0.18 INTERNAL PRESSURE COEFFICIENT
E. Pw = 49 PSF WALL COMPONENT & CLADDING LOAD
F. Pr = 92 PSF ROOF COMPONENT & CLADDING LOAD
G. THIS BUILDING IS NOT DESIGNED FOR PLACEMENT ON THE UPPER HALF OF A HILL OR ESCARPMENT EXCEEDING 15 FEET IN HEIGHT.

SEISMIC LOAD:
A. I SEISMIC USE GROUP
B. D SITE CLASS
C. 1K SEISMIC FORCE RESISTING SYSTEM.
D. C SEISMIC DESIGN CATEGORY
E. SIMPLIFIED ANALYSIS PROCEDURE
F. Sds = <.49 SPECTRAL RESPONSE COEFFICIENT
G. Sd1 = <.19 SPECTRAL RESPONSE COEFFICIENT
H. V = 2057 LB DESIGN BASE SHEAR
I. R = 6 RESPONSE MODIFICATION COEFFICIENT

FLOOD LOAD:
THIS BUILDING IS NOT DESIGNED TO BE LOCATED IN A FLOOD HAZARD AREA.

## MECHANICAL NOTES: N.C. MECH. CODE 2002 EDITION

1. ALL SUPPLY AIR REGISTERS SHALL BE 10 INCHES x 10 INCHES ADJUSTABLE WITH 8 INCHES x 18 INCHES (INSIDE) OVERHEAD FIBERGLASS DUCT, UNLESS OTHERWISE SPECIFIED. DUCTS IN UNCONDITIONED SPACES SHALL HAVE R–5 MINIMUM INSULATION EXCEPT DUCTS EXPOSED TO VENTILATED ATTICS AND CRAWL SPACES SHALL HAVE R–6.5 INSULATION.
2. DELETED
3. HVAC EQUIPMENT SHALL BE EQUIPPED WITH OUTSIDE FRESH AIR INTAKES PROVIDING 15 CFM FOR EACH OCCUPANT, OR 50 CFM FOR EACH WATER CLOSET AND EACH URINAL, WHICHEVER IS GREATER.
4. MECHANICAL SYSTEM DESIGNED FOR AVERAGE OCCUPANT LOAD OF 20.
5. VENT FANS SHALL BE DUCTED TO THE EXTERIOR AND TERMINATE AT AN APPROVED VENT CAP.

## ENERGY CODE: N.C. ENERGY CODE 2002 EDITION

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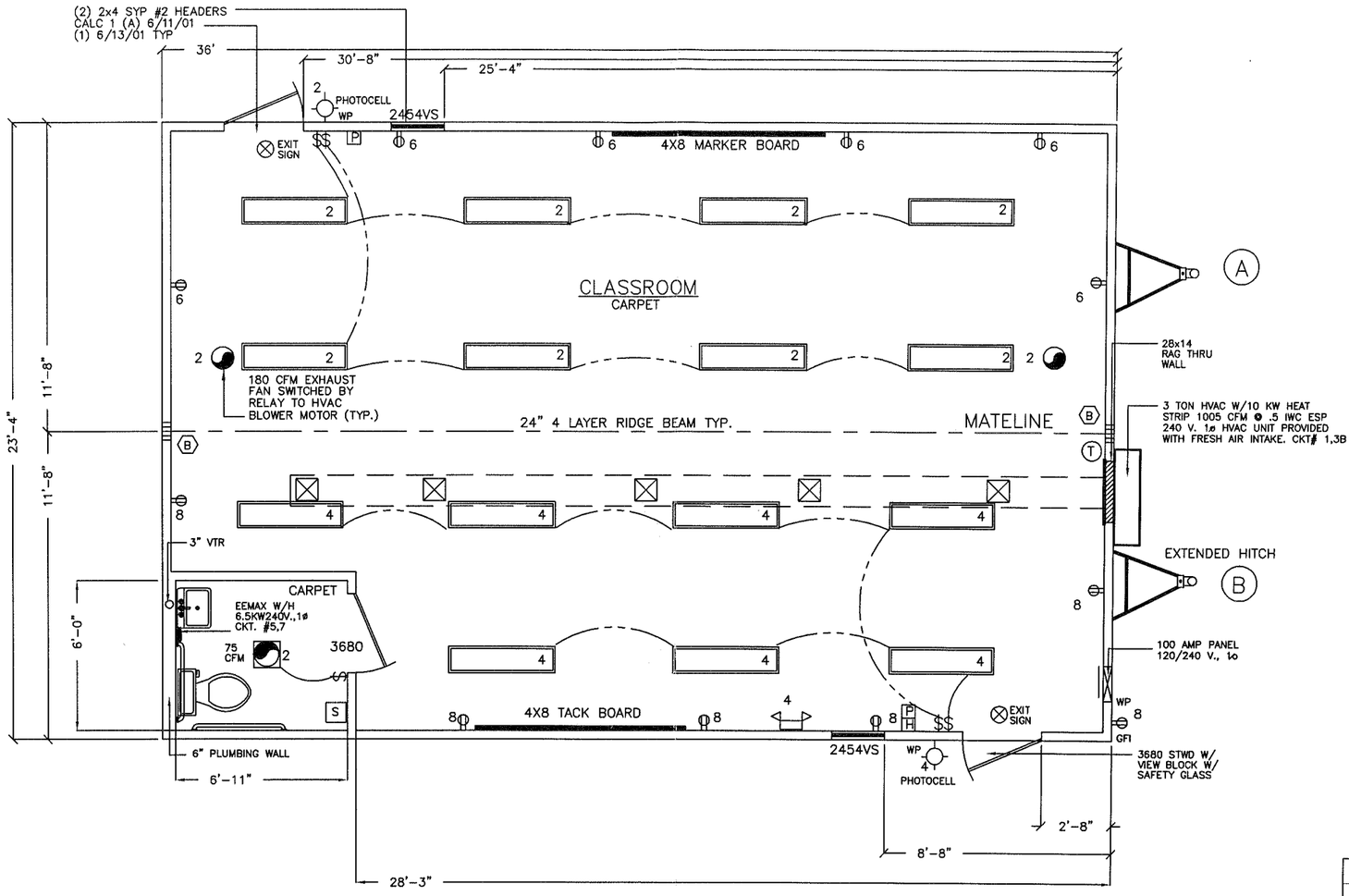
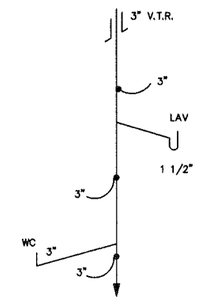
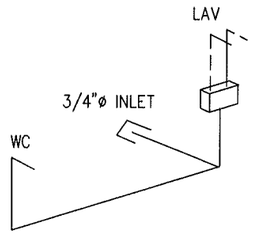



DWV RISER NTS




SUPPLY RISER -NTS-

| COLUMN STRAPPING SCHEDULE: | |
|---|---|
| (A) (2) 2x4 SPF #2 THIS HALF. | (B) (2) 2x4 SPF #2 EACH HALF |
| (C) (3) 2x4 SPF #2 THIS HALF. | (D) (3) 2x4 SPF #2 EACH HALF. |
| (E) (4) 2x4 SPF #2 THIS HALF. | (F) (4) 2x4 SPF #2 EACH HALF. |
| (G) (5) 2x4 SPF #2 THIS HALF. | (H) (5) 2x4 SPF #2 EACH HALF. |
| ✹ WITH RIDGE BEAM BEARING STIFFENER | |

NOTES:
1. ALL COLUMN STUDS SHALL BE GLUE/NAILED TOGETHER. PVA GLUE WITH 100% COVERAGE SHALL BE USED.
2. INSTALL TWO STEEL STRAPS AT EACH STUD OF EACH COLUMN.
3. COLUMN STUDS SHALL NOT BE NOTCHED OR BORED.

SUPPLY LINE SIZING IS BASED ON AN ASSUMED AVAILABLE PRESSURE OF 46 TO 60 PSI AT MAIN INLET AND SHOULD BE VERIFIED PRIOR TO CONSTRUCTION.

———— COLD
— — — — — HOT

ALL SUPPLY LINES SHALL BE 3/4", ALL STUB-UPS SHALL BE 1/2" UNLESS OTHERWISE SPECIFIED.

APPROVED
MAY 21 2003
REVIEWED BY: C. BARROWS
HWCNC, P.C.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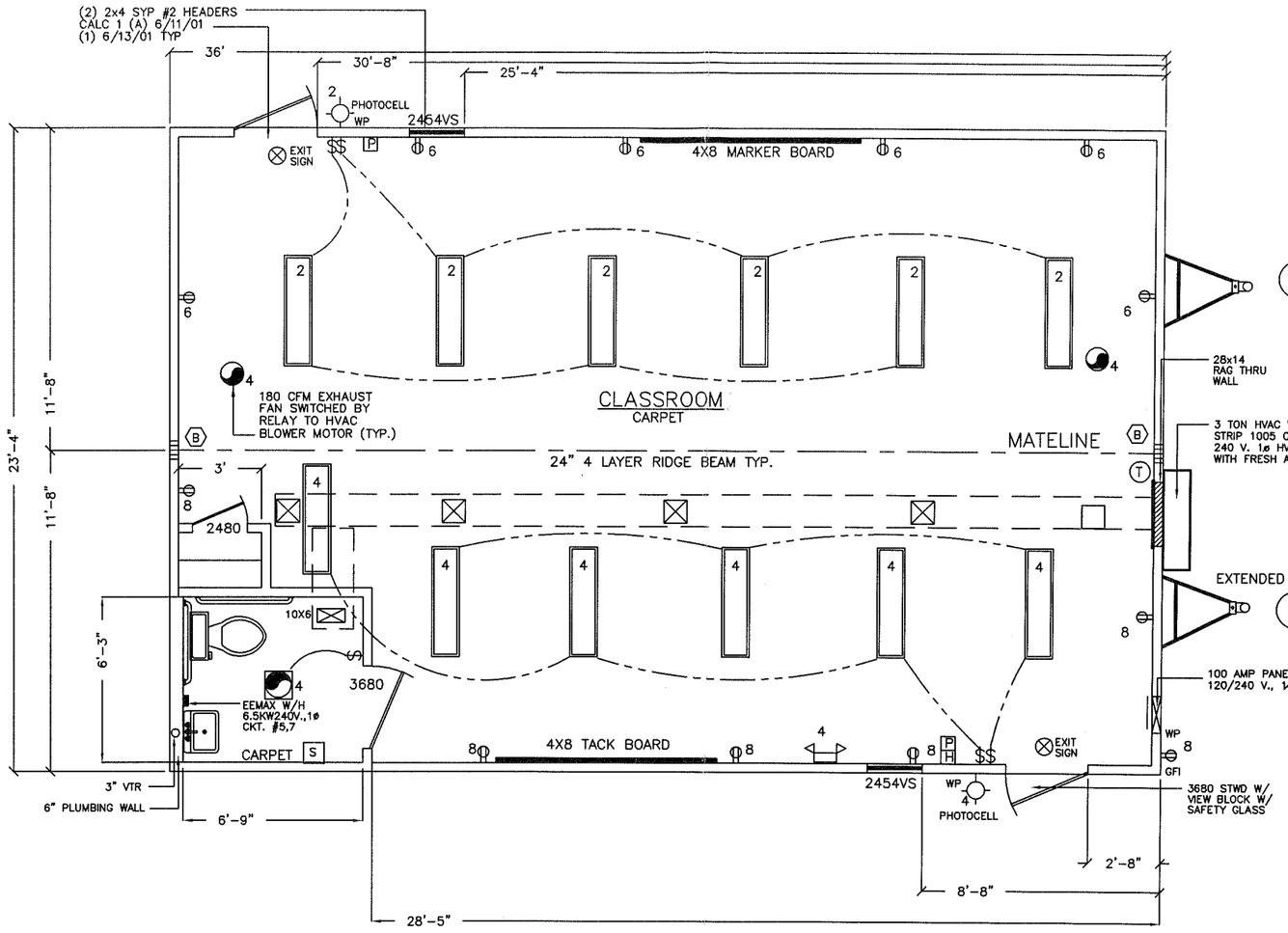
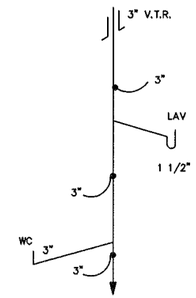
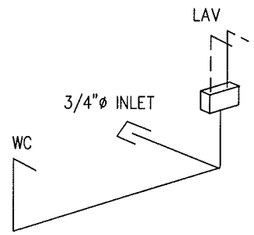



DWV RISER NTS




SUPPLY RISER -NTS-

| COLUMN STRAPPING SCHEDULE: | |
|---|---|
| (A) (2) 2x4 SPF #2 THIS HALF. | (B) (2) 2x4 SPF #2 EACH HALF |
| (C) (3) 2x4 SPF #2 THIS HALF. | (D) (3) 2x4 SPF #2 EACH HALF. |
| (E) (4) 2x4 SPF #2 THIS HALF. | (F) (4) 2x4 SPF #2 EACH HALF. |
| (G) (5) 2x4 SPF #2 THIS HALF. | (H) (5) 2x4 SPF #2 EACH HALF. |

✹ WITH RIDGE BEAM BEARING STIFFENER

NOTES:
1. ALL COLUMN STUDS SHALL BE GLUE/NAILED TOGETHER. PVA GLUE WITH 100% COVERAGE SHALL BE USED.
2. INSTALL TWO STEEL STRAPS AT EACH STUD OF EACH COLUMN.
3. COLUMN STUDS SHALL NOT BE NOTCHED OR BORED.

SUPPLY LINE SIZING IS BASED ON AN ASSUMED AVAILABLE PRESSURE OF 46 TO 60 PSI AT MAIN INLET AND SHOULD BE VERIFIED PRIOR TO CONSTRUCTION.

———— COLD
— — — — — HOT

ALL SUPPLY LINES SHALL BE 3/4", ALL STUB-UPS SHALL BE 1/2" UNLESS OTHERWISE SPECIFIED.

APPROVED
MAY 21 2003
REVIEWED BY: C. BARROWS
HWCNC, P.C.


TOPLINE BUILDING INC.
P.O. BOX 2046 145 BUSINESS BLVD. ALMA, GEORGIA
(912) 632-4440 FAX (912) 632-2623


| | | |
|---|---|---|
| DATE: 5-19-03 | | |
| SCALE : 3/16"=1'-0" | | |
| CODES: SEE NOTES | REVISIONS: | BY: T.L.H. |
| LABELS: SEE NOTES | | |
| TLB2309-15 A/B 24x 36 EDUCATION | | SHEET 2A OF 5 |
| FLOOR PLAN (ALTERNATE) | JOB NO. 2040-1027 | |