ACCESSIBILITY NOTES:

1. ACCESS TO BUILDING FOR PERSONS IN WHEELCHAIRS IS DESIGNED BY AND FIELD BUILT BY OTHERS AND SUBJECT TO LOCAL JURISDICTION. THE PRIMARY ENTRANCE AND REQUIRED EXITS MUST BE ACCESSIBLE.

2. 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. AT LEAST 60% OF ALL PUBLIC ENTRANCES MUST BE ACCESSIBLE.

3. ACCESSIBLE DRINKING FOUNTAINS SHALL HAVE A SPOUT OUTLET 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. DRINKING FOUNTAINS FOR STANDING PERSONS SHALL HAVE A SPOUT OUTLET HEIGHT 38 INCHES MINIMUM AND 43 INCHES MAXIMUM ABOVE THE FLOOR. SPOUT LOCATION AND FLOW SHALL BE IN ACCORDANCE WITH THE APPLICABLE ACCESSIBILITY CODE.

4. 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 (i.e. TOUCH LATCHES, U-SHAPED PULLS); FOR AREAS WITH UNOBSTRUCTED REACH THE SPACE SHALL BE WITHIN 15 INCHES MINIMUM AND 48 INCHES MAXIMUM OF THE FLOOR; FOR HIGH FORWARD REACH AREAS WITH OBSTRUCTIONS THE CLEAR FLOOR SPACE SHALL EXTEND BENEATH THE ELEMENT FOR A DISTANCE NOT LESS THAN THE REQUIRED REACH DEPTH OVER THE OBSTRUCTION AND THE HEIGHT OF THE SPACE SHALL BE 48 INCHES MAXIMUM AND THE DEPTH OF THE SPACE SHALL BE 20 INCHES MAXIMUM EXCEPT THE DEPTH MAY BE 25 INCHES MAXIMUM IF THE HEIGHT IS 44 INCHES MAXIMUM; FOR HIGH SIDE REACH AREAS WITH OBSTRUCTIONS THE HEIGHT OF THE OBSTRUCTION SHALL BE 34 INCHES MAXIMUM AND THE DEPTH OF THE OBSTRUCTION SHALL BE 24 INCHES MAXIMUM AND IF THE REACH DEPTH EXCEEDS 10 INCHES THEN THE MAXIMUM REACH HEIGHT IS 46 INCHES.

5. CONTROLS, DISPENSERS, RECEPTACLES AND OTHER OPERABLE EQUIPMENT SHALL BE NO HIGHER THAN THE REACH HEIGHTS SPECIFIED IN NOTE 4 ABOVE AND 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.

6. 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.

7. 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.

8. 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 BE SPACES NO GREATER THAN 0.5 INCH WIDE IN ONE DIRECTION. DOORWAY THRESHOLDS SHALL NOT EXCEED 0.5 INCH IN HEIGHT.

9. 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.

10. DOORS AND SIDELITES ADJACENT TO DOORS CONTAINING ONE OR MORE GLAZING PANELS THAT PERMIT VIEWING THROUGH THE PANELS SHALL HAVE THE BOTTOM OF AT LEAST ONE PANEL ON EITHER THE DOOR OR AN ADJACENT SIDELITE 43 INCHES MAXIMUM ABOVE THE FLOOR. VISION LITES WITH THE LOWEST PART MORE THAN 66 INCHES ABOVE THE FLOOR ARE EXEMPT FROM THIS REQUIREMENT.

11. COUNTERTOPS SERVING THE PUBLIC SHALL HAVE A 36 INCH MINIMUM LONG SECTION THAT IS 36 INCH MAXIMUM IN HEIGHT.

12. 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 AT 33 INCHES TO 36 INCHES FROM THE FLOOR TO THE CENTERLINE OF THE BAR. SIDE WALL GRAB BARS SHALL BE MOUNTED WITH THE FAR END LOCATED A MAXIMUM OF 12 INCHES FROM THE WALL BEHIND THE WATER CLOSET.

13. IF 03 ANSI A117.1 IS SHOWN UNDER ACCESSIBILITY IN THE CODE SUMMARY, A VERTICAL GRAB BAR 18 INCHES MINIMUM IN LENGTH SHALL BE LOCATED ON THE SIDE WALL ADJACENT TO THE WATER CLOSET DIRECTLY ABOVE THE 42 INCH LONG HORIZONTAL GRAB BAR. THE VERTICAL BAR SHALL BE MOUNTED WITH THE BOTTOM OF THE BAR LOCATED BETWEEN 39 INCHES AND 41 INCHES ABOVE THE FLOOR, AND WITH THE CENTERLINE OF THE BAR LOCATED BETWEEN 39 INCHES AND 41 INCHES FROM THE REAR WALL.

14. ACCESSIBLE URINALS SHALL BE STALL-TYPE OR WALL HUNG WITH ELONGATED RIMS AT A MAXIMUM OF 17 INCHES ABOVE THE FLOOR AND 14 INCHES FROM THE WALL.

15. 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.

16. 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.

17. 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.

18. ACCESSIBLE LAVATORIES AND SINKS SHALL HAVE ACCESSIBLE FAUCETS (i.e. LEVER-OPERATED, PUSH-TYPE, ELECTRONICALLY CONTROLLED).

19. WHERE MIRRORS ARE PROVIDED IN RESTROOMS, AT LEAST ONE SHALL BE PROVIDED WITH ITS BOTTOM EDGE NO HIGHER THAN 40 INCHES ABOVE THE FLOOR.

20. WHERE MEDICINE CABINETS ARE PROVIDED, AT LEAST ONE SHALL BE LOCATED WITH USEABLE SHELF NO HIGHER THAN 44 INCHES ABOVE THE FLOOR.

21. GRAB BARS REQUIRED FOR ACCESSIBILITY SHALL BE 1.25 INCH TO 1.5 INCHES IN DIAMETER WITH 1.5 INCHES OF CLEAR SPACE BETWEEN THE BAR AND THE WALL.

22. TOILET PAPER DISPENSERS SHALL BE INSTALLED WITHIN REACH AND MOUNTED 19 INCHES ABOVE THE FLOOR TO THE CENTERLINE OF THE DISPENSER. DISPENSERS THAT CONTROL DELIVERY, OR THAT DO NOT PERMIT CONTINUOUS FLOW, SHALL NOT BE USED.

23. WATER CLOSET FLUSH CONTROL SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREA.

24. A TOWEL DISPENSER SHALL BE LOCATED ADJACENT TO ALL ACCESSIBLE LAVATORIES.

25. THE SHOWER SEAT SHALL BE MOUNTED 17 INCHES TO 19 INCHES FROM THE BATHROOM FLOOR AND SHALL EXTEND THE FULL DEPTH OF THE STALL.

26. A SHOWER SPRAY UNIT WITH A HOSE AT LEAST 60 INCHES LONG THAT CAN BE USED BOTH AS A FIXED SHOWER HEAD AND AS A HAND-HELD SHOWER SHALL BE PROVIDED.

27. CURBS IN SHOWER STALLS BE NO HIGHER THAN 1/2 INCH.

28. ENCLOSURES FOR SHOWER STALLS SHALL NOT OBSTRUCT CONTROLS OR OBSTRUCT TRANSFER FROM WHEELCHAIRS ONTO SHOWER SEATS.

IBCCV1 01/13/12

GENERAL NOTES:

1. ALL CONSTRUCTION, MATERIALS, AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE CODES SPECIFIED ON THESE DRAWINGS.

2. THESE PLANS INCLUDE DESIGN FOR THE FACTORY BUILT PORTION OF THE MODULAR STRUCTURE AND PORTIONS OF THE SITE BUILT CONSTRUCTION. THESE PLANS AND DESIGN PLANS FOR ALL ELEMENTS DESIGNATED TO BE DESIGNED BY OTHERS AND/OR SITE INSTALLED MUST BE SUBMITTED TO AND REVIEWED BY THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE (DESIGNER OF RECORD) FOR COMPATIBILITY WITH THE DESIGN OF THE OVERALL BUILDING PROJECT AS REQUIRED BY THE APPLICABLE CODES AND LAWS.

3. ALL PARTIES RESPONSIBLE FOR DESIGN WORK SHALL BE QUALIFIED AND LICENSED AS REQUIRED BY THE JURISDICTIONS HAVING AUTHORITY OR SHALL RETAIN SUCH QUALIFIED AND LICENSED ENTITIES TO PERFORM SUCH WORK.

4. TRANSPORTATION AND ERECTION OF THIS BUILDING IS DESIGNED BY OTHERS. ANY TRANSPORTATION AND/OR LIFTING ELEMENTS SHOWN IN THESE PLANS MUST BE EVALUATED BY TRANSPORTATION AND ERECTION DESIGNER FOR SUITABILITY.

5. REFER TO MANUFACTURER'S APPROVED SYSTEMS PACKAGE FOR ADDITIONAL CONSTRUCTION DETAILS AND SPECIFICATIONS NOT INCLUDED IN THESE PLANS.

6. REFER TO ATTACHED ENERGY CODE COMPLIANCE FORM AND/OR HEAT LOSS AND GAIN CALCULATIONS FOR ADDITIONAL ENERGY CODE CONSTRUCTION REQUIREMENTS NOT INCLUDED IN THESE PLANS.

7. 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.

8. WHEN NOT SHOWN ON THE PLANS PROVISIONS FOR EXIT DISCHARGE LIGHTING (INCLUDING DUAL ELEMENT EXIT DISCHARGE EMERGENCY LIGHTING) ARE DESIGNED BY OTHERS AND THE RESPONSIBILITY OF THE BUILDING OWNER AND SUBJECT TO LOCAL JURISDICTION APPROVAL.

9. PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED BY OTHERS AS REQUIRED BY THE IFC.

10. ALL GLAZING WITHIN A 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.

11. DOORS THAT OPEN INTO THE PATH OF EGRESS TRAVEL SHALL PARTIALLY OR FULLY OPEN IN SUCH A MANNER THAT THE CODE REQUIRED PATH OF EGRESS WIDTH IS NOT REDUCED TO LESS THAN ONE-HALF DURING THE COURSE OF THE SWING. WHEN FULLY OPEN, THE DOOR SHALL NOT PROJECT MORE THAN 7 INCHES INTO THE CODE REQUIRED WIDTH.

12. WHERE THE LIVE LOADS FOR WHICH EACH FLOOR OR PORTION THEREOF IS DESIGNED TO EXCEED 50 PSF, SUCH DESIGN LIVE LOAD SHALL BE CONSPICUOUSLY POSTED BY THE BUILDING OWNER IN THAT STORY WHERE THEY APPLY, USING DURABLE SIGNS.

13. INTERIOR NON-LOADBEARING PARTITIONS SHALL BE MINIMUM 2X4 SPF#3 STUDS AT 16 INCHES ON CENTER.

14. THIS BUILDING SHALL NOT BE INSTALLED AT ANY LOCATION WHERE THE SNOW LOAD AS DETERMINED FROM LOCAL METEOROLOGICAL DATA EXCEEDS THE SNOW LOAD LISTED ON THESE PLANS.

15. IF THIS BUILDING IS LOCATED IN A WIND BORNE DEBRIS REGION ALL EXTERIOR GLAZING SHALL BE PROTECTED WITH AN IMPACT RESISTANT COVERING WHICH IS ALSO DESIGNED TO RESIST THE APPLICABLE WIND PRESSURES. THIS COVERING IS DESIGNED BY OTHERS, SITE INSTALLED AND SUBJECT TO LOCAL JURISDICTION APPROVAL.
WIND BORNE DEBRIS REGIONS INCLUDE THE FOLLOWING:
A. AREAS WITHIN ONE MILE OF THE COASTAL MEAN HIGH WATER LINE WHERE THE BASIC WIND SPEED IS EQUAL TO OR GREATER THAN 110 MPH, OR
B. AREAS WHERE THE BASIC WIND SPEED IS EQUAL TO OR GREATER THAN 120 MPH.

16. WHERE CORRIDORS ARE PROVIDED THE MINIMUM CORRIDOR WIDTH SHALL BE AS SHOWN ON THESE PLANS OR 44 INCHES, WHICHEVER IS GREATER.

17. WHERE CORRIDORS ARE PROVIDED THE MINIMUM CORRIDOR FINISH SHALL BE CLASS B.

WINDOW AND DOOR ABBREVIATIONS:

3680 = 36 INCHES X 80 INCHES (TYPICAL)

VS = VERTICAL SLIDER, SINGLE OR DOUBLE HUNG

HS = HORIZONTAL SLIDER

OBS = OBSCURE GLAZING

E OR EGRESS = EGRESS WINDOW COMPLYING WITH THE APPLICABLE BUILDING AND/OR LIFE SAFETY CODE

HD = HEAVY DUTY

ALUM = ALUMINUM INSULATED DOOR

ST/ST = STEEL INSULATED DOOR

VB = VIEW BLOCK

SLG = SLIDING GLASS DOOR

SITE INSTALLED ITEMS:

NOTE THAT THIS LIST DOES NOT NECESSARILY LIMIT THE ITEMS OF WORK AND MATERIALS THAT MAY BE REQUIRED FOR A COMPLETE INSTALLATION. ALL SITE RELATED ITEMS ARE SUBJECT TO LOCAL JURISDICTION APPROVAL.

1. THE COMPLETE FOUNDATION SUPPORT AND TIE DOWN SYSTEM.
2. RAMPS, STAIRS AND GENERAL ACCESS TO THE BUILDING.
3. PORTABLE FIRE EXTINGUISHER(S).
4. BUILDING DRAINS, CLEANOUTS, AND HOOK-UP TO THE PLUMBING SYSTEM.
5. ELECTRICAL SERVICE HOOK-UP (INCLUDING FEEDERS) TO THE BUILDING.
6. THE MAIN ELECTRICAL PANEL AND SUB-FEEDERS.
7. CONNECTIONS OF ELECTRICAL CIRCUITS CROSSING OVER MODULE MATING LINE(S) - (MULTI-UNITS ONLY).
8. DUAL ELEMENT EXTERIOR EXIT DISCHARGE LIGHTING WHEN NOT SHOWN ON PLANS.
9. STRUCTURAL AND AESTHETIC INTERCONNECTIONS BETWEEN MODULES (MULTI-UNITS ONLY).
10. EXTERIOR GLAZING PROTECTION.
11. GUTTERS & DOWN SPOUTS WHEN REQUIRED.
12. WATER HEATER THERMAL EXPANSION DEVICE WHEN REQUIRED.
13. PROGRAMMABLE THERMOSTATS IF NOT INSTALLED AT FACTORY.
14. DRINKING FOUNTAIN & SERVICE SINK WHEN NOT SHOWN ON FLOOR PLAN.
15. ALL SIGNS UNLESS OTHERWISE SPECIFIED.
16. ANY AIR GAPS BETWEEN MODULES AT FLOOR AND CEILING LINES AND ANY OTHERS PENETRATIONS THROUGH THE BUILDING ENVELOPE SHALL BE CAULKED, GASKETED, WEATHER-STRIPPED, WRAPPED OR OTHERWISE SEALED TO LIMIT UNCONTROLLED AIR MOVEMENT.

WINDOW AND DOOR ABBREVIATIONS:

3680 = 36 INCHES X 80 INCHES (TYPICAL)

VS = VERTICAL SLIDER, SINGLE OR DOUBLE HUNG

ST/ST = STEEL INSULATED DOOR

V/B = VIEW BLOCK

FOUNDATION NOTE:

FOR FOUNDATION DESIGN REFER TO THE ATTACHED FOUNDATION PLANS PREPARED BY THE BUILDING DESIGNER. IF FOUNDATION PLANS ARE DESIGNED BY OTHERS, THE BUILDING DESIGNER SHALL NOT BE HELD RESPONSIBLE OR LIABLE FOR THE FOUNDATION DESIGN & THE CONSEQUENTIAL PERFORMANCE OF THE SUPERSTRUCTURE'S STRUCTURAL COMPONENTS AND SYSTEMS RELATING THERETO.

BUILDING DATA NOTES:

1. CONSTRUCTION IS TYPE V-B.
2. OCCUPANCY IS BUSINESS.
3. MEANS OF EGRESS IS DESIGNED FOR AN OCCUPANT LOAD OF 1 PERSON PER 100 SQUARE FEET OF GROSS FLOOR AREA. 15 TOTAL OCCUPANTS.
4. FIRE RATING OF EXTERIOR WALLS IS 0 HOURS.
5. THIS BUILDING REQUIRES A FIRE SEPARATION DISTANCE OF 10 FEET OR MORE IN ACCORDANCE WITH TABLE 602 OF THE IBC AND IS SUBJECT TO LOCAL JURISDICTION APPROVAL.

TENNESSEE STRUCTURAL LOAD LIMITATIONS:

FLOOR LIVE LOAD:
A. 100 PSF CORRIDORS, 50 PSF ELSEWHERE.
B. 2000# CONCENTRATED LOAD OVER 30 INCH X 30 INCH AREA LOCATED ANYWHERE ON FLOOR.

ROOF LIVE LOAD:
A. 20 PSF.

ROOF SNOW LOAD:
A. GROUND SNOW LOAD: Pg = 10 PSF
B. FLAT-ROOF SNOW LOAD: Pf = 10 PSF
C. SNOW EXPOSURE FACTOR: Ce = 1.0
D. SNOW IMPORTANCE FACTOR: Is = 1.0
E. SNOW THERMAL FACTOR: Ct = 1.1
F. ROOF SLOPE FACTOR: Cs = 1.0
G. SLOPED ROOF SNOW LOAD: Ps = Pf X Cs
H. DESIGN IS BASED ON FULL OR PARTIALLY EXPOSED ROOF PER ASCE 7-05.

WIND LOAD:
A. WIND SPEED (3-SEC GUST): V = 110 MPH
B. WIND IMPORTANCE FACTOR: Iw = 1.0
C. WIND EXPOSURE CATEGORY: EXP. = C
D. INTERNAL PRESSURE COEFFICIENT: GCpi = 0.18
E. COMPONENT & CLADDING PRESSURES (ROOF 7 TO 27 DEG.):
WALL ZONE 5 = +/-35.2 PSF
WALL ZONE 4 = +/-28.6 PSF
ROOF ZONE 3 = -62.1 PSF
ROOF ZONE 2 = -42.0 PSF
ROOF ZONE 1 = -24.1 PSF
F. THIS BUILDING IS NOT DESIGNED FOR PLACEMENT ON THE UPPER HALF OF A HILL OR ESCARPMENT EXCEEDING 15 FEET IN HEIGHT.
G. BUILDING CATEGORY IS II PER ASCE 7-05.
H. BUILDING DESIGN IS BASED ON "ENCLOSED" CLASSIFICATION.
I. BUILDING MEAN ROOF HEIGHT SHALL NOT EXCEED 15 FEET.

SEISMIC LOAD:
A. SEISMIC IMPORTANCE FACTOR IS 1.0
B. SEISMIC OCCUPANCY CATEGORY IS II.
C. SEISMIC SITE CLASS IS D.
D. SPECTRAL RESPONSE COEFFICIENTS:
Ss = 0.52 S1 = 0.12
Sds = 0.49 Sd1 = 0.19
E. SEISMIC DESIGN CATEGORY IS C.
F. SEISMIC FORCE RESISTING SYSTEM IS A13.
G. SIMPLIFIED SEISMIC ANALYSIS PROCEDURE HAS BEEN USED.
H. RESPONSE MODIFICATION FACTOR R = 6.5.
I. SEISMIC RESPONSE COEFFICIENT Cs = N/A.
J. DESIGN BASE SHEAR V = 3200#

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

APPROVED **RADCO** APPROVED
Jan 23, 2012

CODE SUMMARY:

STATE	BUILDING	ELECTRICAL	MECHANICAL	PLUMBING	ACCESSIBILITY	ENERGY
TENNESSEE	2006 IBC * 2006 NFPA 101	2008 NEC W/AMENDS	2006 IMC	2006 IPC	ADA, 02 NC H.C. CODE W/ 04 REV.	2006 IECC

* NOT INCLUDING CHAPTERS 11 & 27.
* INCLUDES SAFETY GLAZING MATERIALS TN CODE ANN., TITLE 68, CHAPTER 120, PART 3.

INDEX:

NADER TOMASBI REGISTERED ENGINEER AGRICULTURE COMMERCE No. 109918 STATE OF TENNESSEE
01/21/2012

DIAMOND BUILDERS, INC.
440 THOMPSON DR., DOUGLAS GEORGIA 31534
(912)384-7080 FAX: (912)384-5721

DATE: 01/15/2012
SCALE : NTS
CODES: SEE SUMMARY
LABELS: RADCO, TN

NADER TOMASBI, P.E.
58665 GLENRIVER DRIVE
GOSHEN, IN 46528
574-370-3419

REVISIONS: | BY: NT

DBI 4923 A/B 24 X 60 BUSINESS

SHEET 1 OF 9

COVER SHEET | TN PLAN NO. 085

ELECTRICAL NOTES:

1. ALL EQUIPMENT SHALL BE LISTED BY UL FOR THE APPLICATION FOR WHICH IT IS USED AND ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE LISTING.

2. ALL CIRCUITS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE APPROPRIATE ARTICLES OF THE NATIONAL ELECTRICAL CODE (NEC). ALL EQUIPMENT SHALL BE LISTED AND IDENTIFIED FOR USE WITH 75°C OR 90°C CONDUCTORS UNLESS OTHERWISE SPECIFIED.

3. 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 BE A MINIMUM CLEARANCE OF 6 INCHES FROM "STORAGE AREA" AS DEFINED BY NEC 410-8(a).

4. 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 OR BEING LOCKED IN THE OPEN POSITION.

5. 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.

6. 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.

7. THE MAIN ELECTRICAL PANEL AND FEEDERS ARE DESIGNED BY OTHERS, SITE INSTALLED AND SUBJECT TO LOCAL JURISDICTION APPROVAL.

8. ALL CIRCUITS CROSSING OVER MODULE MATING LINE(S) SHALL BE SITE CONNECTED WITH APPROVED ACCESSIBLE JUNCTION BOXES OR CABLE CONNECTORS.

9. FIRE ALARM PULL STATION OPERABLE DEVICE SHALL BE LOCATED 42 TO 45 INCHES ABOVE THE FLOOR. FIRE ALARM HORN/STROBE DEVISE SHALL BE WALL MOUNTED WITH THE BOTTOM EDGE 80 INCHES ABOVE THE FLOOR.

10. ALL RECEPTACLES INSTALLED IN WET LOCATIONS (EXTERIOR) SHALL HAVE WEATHER PROOF (WP) ENCLOSURES, THE INTEGRITY OF WHICH IS NOT AFFECTED WHEN AN ATTACHMENT PLUG CAP IS INSERTED OR REMOVED. IN ADDITION NONLOCKING RECEPTACLES SHALL BE LISTED WEATHER-RESISTANT TYPE WHEN COMPLIANCE WITH THE 2008 NEC IS REQUIRED (SEE CODE SUMMARY ON COVER SHEET).

11. ALL EXTERIOR LIGHTS SHALL BE EQUIPPED WITH PHOTOCELLS FOR AUTOMATIC SHUT-OFF WHEN DAYLIGHT IS AVAILABLE.

12. EMERGENCY LIGHTING SHALL BE CAPABLE OF PROVIDING INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1 FOOT-CANDLE (fc) AND A MINIMUM OF 0.1 fc MEASURED ALONG THE PATH OF EGRESS AT THE FLOOR LEVEL. ILLUMINATION LEVELS SHALL BE PERMITTED TO DECLINE TO 0.6 fc AVERAGE AND A MINIMUM AT ANY POINT OF 0.06 fc AT THE END OF THE EMERGENCY LIGHT TIME DURATION. A MAXIMUM-TO-MINIMUM ILLUMINATION UNIFORMITY RATIO OF 40 TO 1 SHALL NOT BE EXCEEDED. THE EMERGENCY POWER SYSTEM SHALL PROVIDE POWER FOR A DURATION OF NOT LESS THAN 90 MINUTES.

13. WHEN A SINGLE RECEPTACLE IS INSTALLED ON AN INDIVIDUAL BRANCH CIRCUIT THE RECEPTACLE SHALL HAVE AN AMPERE RATING NOT LESS THAN THAT OF THE BRANCH CIRCUIT.

14. ELECTRICAL PANELS SHALL BE EQUIPPED WITH A MAIN BREAKER OF THE SAME SIZE AS THE PANEL UNLESS OTHERWISE SPECIFIED.

15. WIRING ABOVE T-GRID CEILINGS SHALL BE AC CABLE, MC CABLE OR RUN IN EMT CONDUIT.

PLUMBING NOTES:

1. WHEN REQUIRED RESTROOM FACILITIES ARE NOT PROVIDED WITHIN THE BUILDING THEY SHALL BE LOCATED IN AN ADJACENT BUILDING OR SITE INSTALLED AND ARE SUBJECT TO THE APPROVAL AND INSPECTION BY THE JURISDICTION HAVING AUTHORITY. ALL SITE INSTALLED FACILITIES ARE DESIGNED BY OTHERS. THIS SHALL BE NOTED ON THE BUILDING DATA PLATE.

2. BUILDING OWNER ASSUMES ALL RESPONSIBILITY FOR DRINKING WATER FACILITIES, SERVICE SINK AND ALL OTHER REQUIRED PLUMBING FACILITIES NOT SHOWN ON FLOOR PLAN. ALL BUILDING OWNER PROVIDED FACILITIES ARE DESIGNED BY OTHERS.

3. TOILETS SHALL BE ELONGATED WITH NONABSORBENT OPEN FRONT SEATS.

4. RESTROOM WALLS SHALL BE COVERED WITH NONABSORBENT MATERIAL TO A MINIMUM HEIGHT OF 48 INCHES A.F.F. (70 INCHES MINIMUM IN SHOWERS). TOILET, BATHING AND SHOWER ROOM FLOORS SHALL HAVE A SMOOTH, HARD, NONABSORBENT SURFACE THAT EXTENDS UPWARD ONTO THE WALLS AT LEAST 4 INCHES.

5. ALL PLUMBING FIXTURES SHALL HAVE SEPARATE SHUTOFF VALVES.

6. WATER HEATER SHALL HAVE A T & P RELIEF VALVE WITH DRAIN TO EXTERIOR, AND A SHUTOFF VALVE WITHIN 3 FEET ON THE COLD WATER SUPPLY LINE.

7. DWV SYSTEM SHALL BE EITHER ABS OR PVC - DWV.

8. WATER SUPPLY LINES SHALL BE CPVC OR COPPER.

9. ALL PIPE HANGERS SHALL BE NON-METALLIC OR OF THE SAME METAL AS THE PIPE BEING SUPPORTED. ALL SUPPORTS FOR PLASTIC PIPES SHALL PERMIT FREE MOVEMENT AND/OR THERMAL EXPANSION OF THE PIPE. PIPING SUPPORTS SHALL BE SPACED IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODE AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.

10. 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. WHERE SUBJECT TO TEMPERATURES LESS THAN 32° F. WATER, SOIL OR WASTE PIPES SHALL BE INSULATED WITH AN INSULATION OF R-6.5 MINIMUM.

11. WATER CLOSETS ARE TANK TYPE AND URINALS ARE FLUSH TANK TYPE UNLESS OTHERWISE SPECIFIED.

12. BUILDING DRAIN AND CLEANOUTS ARE DESIGNED AND SITE INSTALLED BY OTHERS, SUBJECT TO LOCAL JURISDICTION APPROVAL.

13. 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.

14. WATER HEATER STORAGE TANKS SHALL HAVE THE FIRST 8 FEET OF OUTLET PIPING AND THE INLET PIPE BETWEEN THE TANK AND THE HEAT TRAP COVERED WITH 1 INCH THICK INSULATION FOR PIPE DIAMETERS OF 2 INCH OR LESS, AND 1.5 INCH THICK INSULATION FOR PIPE DIAMETERS GREATER THAN 2 INCH.

15. A WATER-HAMMER ARRESTOR SHALL BE INSTALLED WHERE QUICK-CLOSING VALVES ARE UTILIZED, UNLESS OTHERWISE APPROVED. WATER-HAMMER ARRESTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS. WATER-HAMMER ARRESTORS SHALL CONFORM TO ASSE 1010.

16. SHOWERS SHALL BE CONTROLLED BY AN APPROVED MIXING VALVE WITH A MAXIMUM WATER OUTLET TEMPERATURE OF 110°F (43°C)

MECHANICAL NOTES:

1. ALL SUPPLY AIR REGISTERS SHALL BE 24 INCHES X 24 INCHES ADJUSTABLE WITH 8 INCHES X 20 INCHES (INSIDE) OVERHEAD FIBERGLASS MAIN DUCT, AND 8 INCH X 16 INCH (INSIDE) OVERHEAD FIBERGLASS STEP DOWN MAIN DUCT. DUCTS LOCATED OUTSIDE THE BUILDING ENVELOPE INCLUDING ATTIC DUCTS LOCATED ABOVE CEILING INSULATION SHALL HAVE R-8 MINIMUM INSULATION VALUE. DUCTS LOCATED IN UNCONDITIONED SPACES INCLUDING ATTIC DUCTS LOCATED BELOW CEILING OR ROOF INSULATION SHALL HAVE R-5 MINIMUM INSULATION VALUE. AT T-GRID CEILINGS THE FLEX DUCT FROM MAIN SUPPLY AIR DUCT TO SUPPLY AIR REGISTERS SHALL BE 8"ø (INSIDE) AND THE FLEX DUCT FROM MAIN RETURN AIR DUCT TO RETURN AIR REGISTERS SHALL BE 10"ø (INSIDE) UNLESS OTHERWISE SPECIFIED.

2. FIBERGLASS DUCTS SHALL BE CONSTRUCTED WITH CLASS 0 OR CLASS 1 DUCT MATERIAL IN ACCORDANCE WITH UL 181. FIBERGLASS DUCT CONSTRUCTION AND INSTALLATION SHALL CONFORM TO THE SMACNA FIBROUS GLASS DUCT CONSTRUCTION STANDARDS OR NAIMA FIBROUS GLASS DUCT CONSTRUCTION STANDARDS. METAL DUCTS SHALL BE CONSTRUCTED AS SPECIFIED IN THE SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE. FLEXIBLE AIR DUCTS, BOTH FIBERGLASS AND METAL, SHALL BE TESTED IN ACCORDANCE WITH UL 181 AND SHALL BE LISTED AND LABELED AS CLASS 0 OR CLASS 1 FLEXIBLE AIR DUCT. ALL DUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

3. INTERIOR DOORS SHALL BE UNDERCUT 1.5 INCHES ABOVE FINISHED FLOOR FOR AIR RETURN AND OR AS NOTED ON FLOOR PLAN, EXCEPT DOORS LOCATED IN FIRE RATED PARTITIONS SHALL NOT BE UNDERCUT.

4. RESTROOM VENT FANS SHALL PROVIDE 75 CFM OR MORE EXHAUST PER WATER CLOSET OR URINAL, UNLESS OTHERWISE SPECIFIED ON PLANS.

5. VENT FANS SHALL BE DUCTED TO THE EXTERIOR AND TERMINATE AT AN APPROVED VENT CAP.

6. HVAC EQUIPMENT SHALL BE EQUIPPED WITH OUTSIDE FRESH AIR INTAKES CAPABLE OF PROVIDING 250 CFM FOR EACH UNIT.

7. HVAC SYSTEM SHALL COMPLY WITH NFPA 90B.

8. THERMOSTATS SHALL BE PROGRAMMABLE AS REQUIRED BY THE APPLICABLE ENERGY CODE. IF PROGRAMMABLE THERMOSTATS ARE NOT INSTALLED IN THE FACTORY THEY SHALL BE PROVIDED BY THE BUILDING OWNER AND SITE INSTALLED BY OTHERS.

CLOTHES DRYER EXHAUST NOTES:

1. CLOTHES DRYER IS ASSUMED TO BE A DOMESTIC TYPE CLOTHES DRYER.

2. CLOTHES DRYER SHALL BE EXHAUSTED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

3. CLOTHES DRYER EXHAUST SHALL BE DUCTED THROUGH THE CRAWLSPACE TO THE OUTSIDE OF THE BUILDING AND SHALL BE EQUIPPED WITH A BACKDRAFT DAMPER.

4. WHERE EXHAUST DUCT PENETRATES A WALL MEMBRANE, THE ANNULAR SPACE SHALL BE SEALED WITH NONCOMBUSTIBLE MATERIAL, APPROVED FIRE CAULKING OR A NONCOMBUSTIBLE DRYER EXHAUST DUCT WALL RECEPTACLE.

5. DUCT VERTICAL RISERS SHALL BE PROVIDED WITH A MEANS FOR CLEANOUT.

6. EXHAUST DUCT SHALL BE 4 INCH NOMINAL IN DIAMETER AND SHALL HAVE A SMOOTH FINISH AND SHALL BE CONSTRUCTED OF 0.016 INCH MINIMUM METAL.

7. EXHAUST DUCT SHALL BE SUPPORTED AT 4-FOOT INTERVALS AND SECURED IN PLACE.

8. PROTECTIVE SHIELD PLATES SHALL BE PLACED WHERE NAILS OR SCREWS FROM FINISH OR OTHER WORK ARE LIKELY TO PENETRATE THE CLOTHES DRYER EXHAUST DUCT. SEE IMC SECTION 504.6.7 FOR SHIELD PLATE REQUIREMENTS.

SYMBOLS

- SD — SMOKE DETECTOR
- DUPLEX RECEPTACLE 120 V.
- DUPLEX RECEPTACLE 120 V. 40 INCHES A.F.F.
- QUADPLEX RECEPTACLE 120 V.
- SINGLE RECEPTACLE 240 V.
- $ 3 D — SWITCH/ 3 WAY & DIMMER SWITCH
- EXTERIOR INCANDESCENT LIGHT WITH 1- 60 W. BULB
- VENT FAN
- SUPPLY AIR REGISTER
- RETURN AIR REGISTER
- PT — PROGRAMMABLE THERMOSTAT
- FLUORESCENT FIXTURE WITH 3-32W T8 TUBES & ELECTRONIC BALLAST (96 W. TOTAL FIXTURE WATTAGE)
- COMBO INTERNALLY LIGHTED EXIT SIGN (5 W.) & EMERGENCY LIGHT WITH BATTERY BACKUP
- J — JUNCTION BOX (NON POWERED UNLESS CIRCUIT NO. IS SHOWN)
- PJ — POWERED JUNCTION BOX (200 WATTS MAX.)
- EMERGENCY LIGHT WITH BATTERY BACKUP

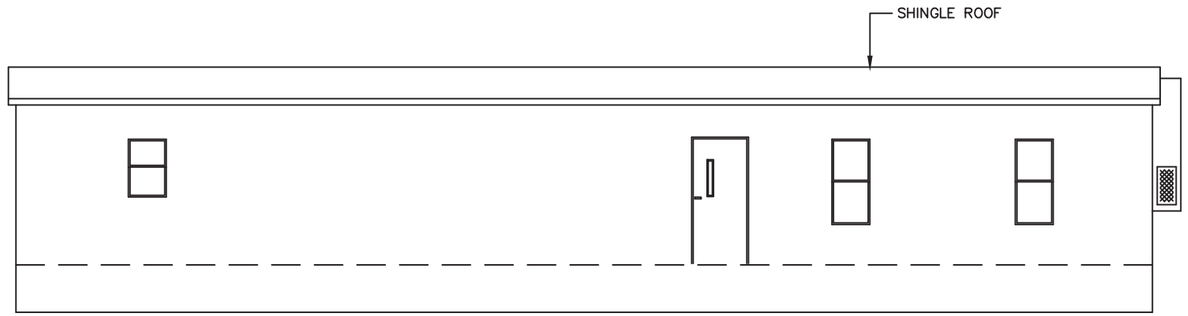
APPROVED RADCO APPROVED
Jan 23, 2012

NADER TOMASBI REGISTERED ENGINEER AGRICULTURE COMMERCE No. 109918 STATE OF TENNESSEE
01/21/2012

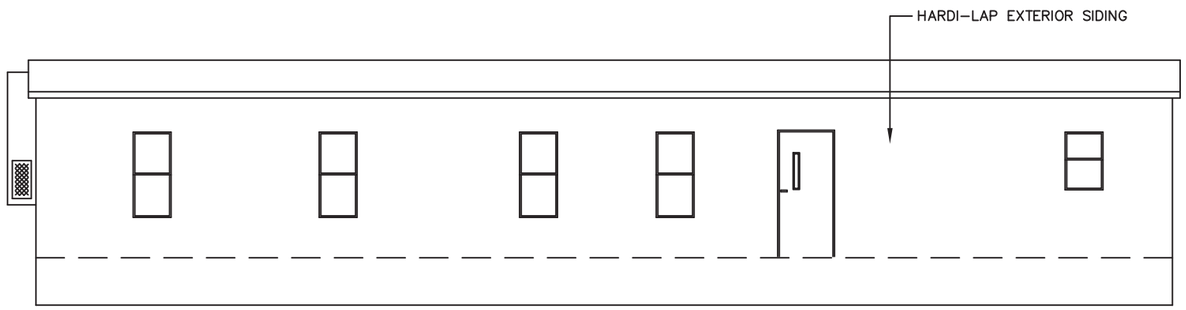
IBCCV2 09/15/11

DIAMOND BUILDERS, INC.
440 THOMPSON DR., DOUGLAS GEORGIA 31534
(912)384-7080 FAX: (912)384-5721

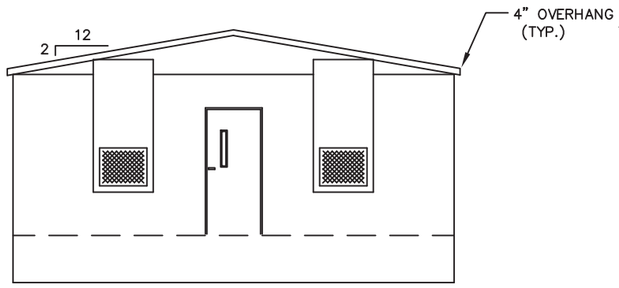
DATE: 01/15/2012	NADER TOMASBI, P.E. 58665 GLENRIVER DRIVE GOSHEN, IN 46528 574-370-3419
SCALE : NTS	
CODES: SEE SUMMARY	REVISIONS: / BY: NT
LABELS: RADCO, TN	
DBI 4923 A/B 24 X 60 BUSINESS	SHEET 2 OF 9
ELECTRICAL, MECHANICAL & PLUMBING NOTES	TN PLAN NO. 085



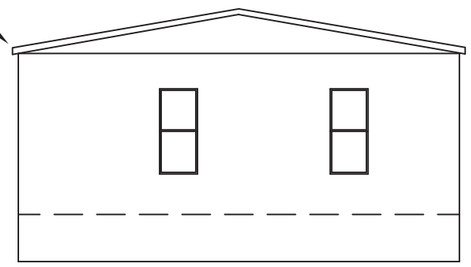
FRONT ELEVATION



REAR ELEVATION



RIGHT ELEVATION



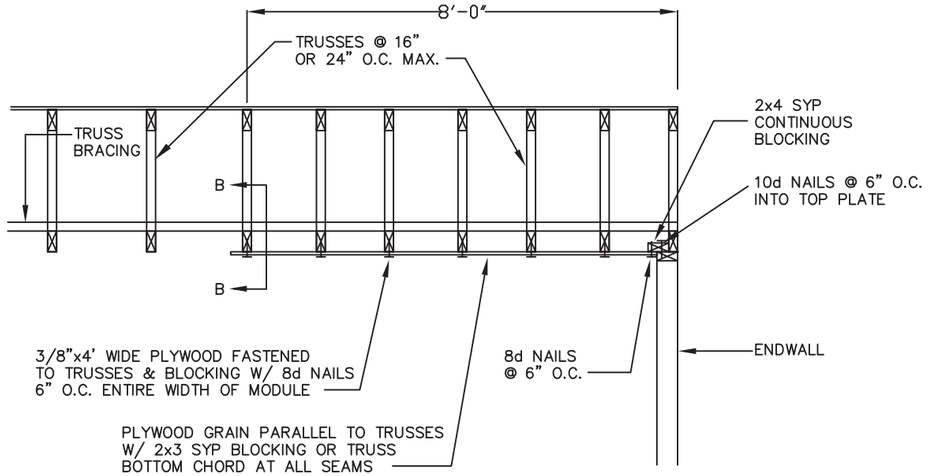
LEFT ELEVATION

TYPICAL ELEVATION NOTES:

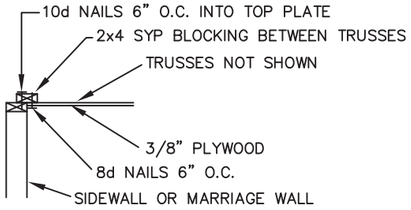
1. ALL SITE INSTALLED ITEMS ARE SUBJECT TO THE APPROVAL OF THE JURISDICTION HAVING AUTHORITY.

2. ACCESSIBLE RAMP(S), STAIR(S), AND HANDRAILS ARE DESIGNED BY OTHERS AND SITE INSTALLED.

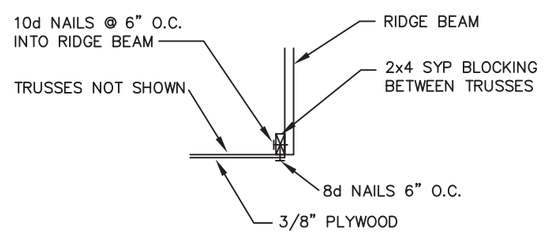
3. FOUNDATION ENCLOSURE (IF PROVIDED) IS DESIGNED BY OTHERS AND SITE INSTALLED. ENCLOSURE MUST HAVE A MINIMUM NET AREA OF VENTILATION OPENINGS OF NOT LESS THAN ONE SQUARE FOOT FOR EACH 150 SQUARE FEET OF CRAWL SPACE AREA. LOCATE OPENINGS TO PROVIDE CROSS VENTILATION OF ENTIRE CRAWL SPACE. INSTALL AN 18" X 24" MINIMUM OPENING FOR CRAWL SPACE ACCESS.



SECTION A-A
(TYP. EACH ENDWALL)



SECTION B-B
(TYP. EACH SIDEWALL & MARRIAGE WALL)



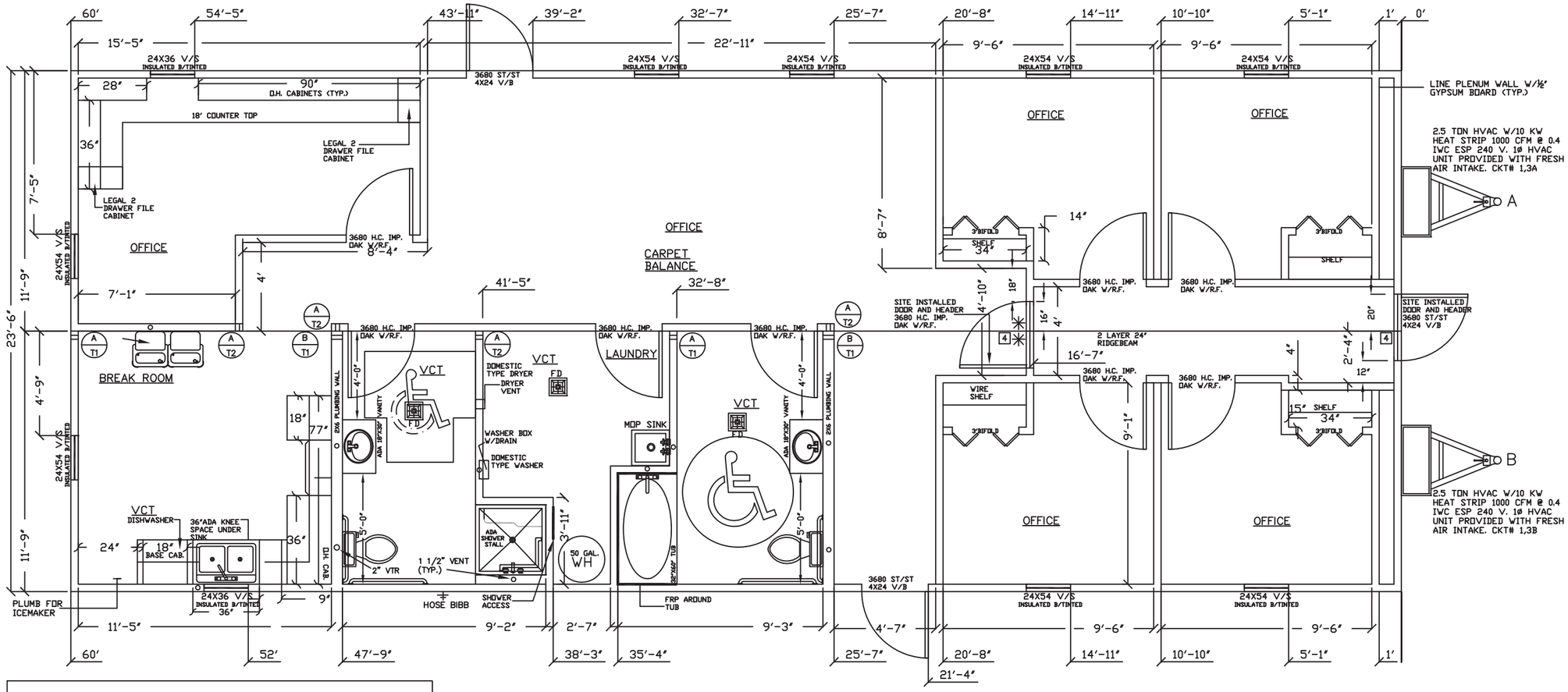
SECTION B-B
(TYP. AT RIDGE BEAM)

APPROVED RADCO APPROVED
Jan 23, 2012

NADER TOMASBI REGISTERED ENGINEER AGRICULTURE COMMERCE No. 109918 STATE OF TENNESSEE
01/21/2012

DIAMOND BUILDERS, INC.
440 THOMPSON DR., DOUGLAS GEORGIA 31534
(912)384-7080 FAX: (912)384-5721

DATE: 01/15/2012	NADER TOMASBI, P.E. 58665 GLENRIVER DRIVE GOSHEN, IN 46528 574-370-3419	
SCALE : NTS		
CODES: SEE SUMMARY	REVISIONS:	BY: NT
LABELS: RADCO, TN		
DBI 4923 A/B 24 X 60 BUSINESS		SHEET 3 OF 9
ELEVATIONS & END WALL BRACING	TN PLAN NO. 085	



NOTE:
THE BREAK ROOM AREA IS NOT DESIGNED FOR USE AS A COMMERCIAL FOOD SERVICE ESTABLISHMENT HOWEVER ANY APPLIANCES INSTALLED ARE SUBJECT TO THE APPLICABLE VENTILATION AND EXHAUST REQUIREMENTS OF THE APPLICABLE CODES. ANY AND ALL EXHAUST REQUIREMENTS, AS DETERMINED BY THE JURISDICTION HAVING AUTHORITY, ARE DESIGNED BY OTHERS AND SITE INSTALLED BY OTHERS AND SUBJECT TO THE APPROVAL OF THE JURISDICTION HAVING AUTHORITY.

COLUMN & COLUMN STRAPPING LEGEND

(B / T2) ← INDICATES TYPE OF STUD / INDICATES TYPE OF TIE DOWN STRAP

✳ ← INDICATES WITH RIDGE BEAM BEARING STIFFENER (SEE RIDGE BEAM NOTES FOR SPECIFICATIONS)

COLUMN DESCRIPTIONS

A (2) 2x4 SYP #2 THIS HALF. B (2) 2x6 SYP #2 THIS HALF

NOTES:
1. ALL COLUMN STUDS SHALL BE NAILED TOGETHER PER NDS AND FASTENED TOGETHER WITH 100% PVA GLUE COVERAGE.
2. COLUMN STUDS SHALL NOT BE NOTCHED OR BORED.
3. INSTALL ONE TIE DOWN STRAP FROM RIDGE BEAM TO COLUMN AND FROM COLUMN TO FLOOR RIM JOIST FOR EACH STUD OF COLUMN. (ie: 4 STUD COLUMN WILL REQUIRE 4 TIE DOWN STRAPS)
4. STRAPS SHALL NOT BE OVERLAPPED OR DOUBLED UNLESS SPECIFIED OTHERWISE.

TIE DOWN STRAP DESCRIPTIONS

T1 20 GA X 1–1/2" GALV. STEEL STRAP WITH (6) 0.148"ø X 3" NAILS EACH END. TWO 26 GA X 1–1/2" GALV. STEEL STRAPS MAY BE SUBSTITUTED FOR ONE 20 GA X 1–1/2" STRAP. NAILS MUST PENETRATE 2" MINIMUM INTO ALL MEMBERS. PENETRATION MAY BE REDUCED TO 1–1/2" IF 8 NAILS ARE USED IN LIEU OF 6. IN NO CASE SHALL SPLITTING OF WOOD BE PERMITTED.

T2 26 GA X 1–1/2" GALV. STEEL STRAP WITH (6) 14 GA X 7/16" X 1" STAPLES EACH END. 15 GA STAPLES MAY BE USED IF QUANTITY IS INCREASED TO (7) STAPLES.

APPROVED RADCO APPROVED
Jan 23, 2012

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DIAMOND BUILDERS, INC.
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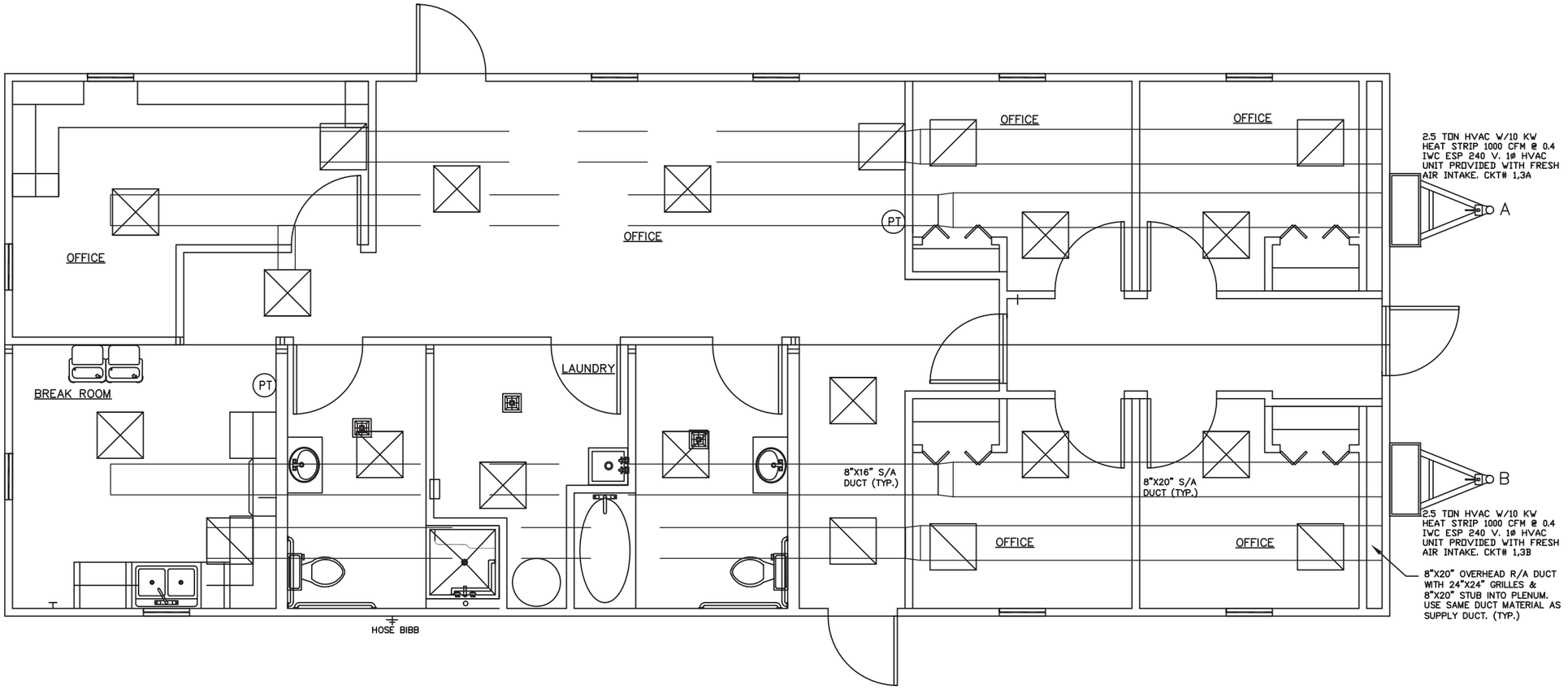
(912)384-7080 FAX: (912)384-5721

DATE: 01/15/2012	NADER TOMASBI, P.E. 58665 GLENRIVER DRIVE GOSHEN, IN 46528 574–370–3419
SCALE : 3/16" = 1'–0"	
CODES: SEE SUMMARY	REVISIONS: BY: NT
LABELS: RADCO, TN	
DBI 4923 A/B 24 X 60 BUSINESS	SHEET 4 OF 9
FLOOR PLAN	TN PLAN NO. 085



APPROVED RADCO APPROVED
Jan 23, 2012

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NADER TOMASBI, P.E.
58665 GLENRIVER DRIVE
GOSHEN, IN 46528
574-370-3419

REVISIONS:

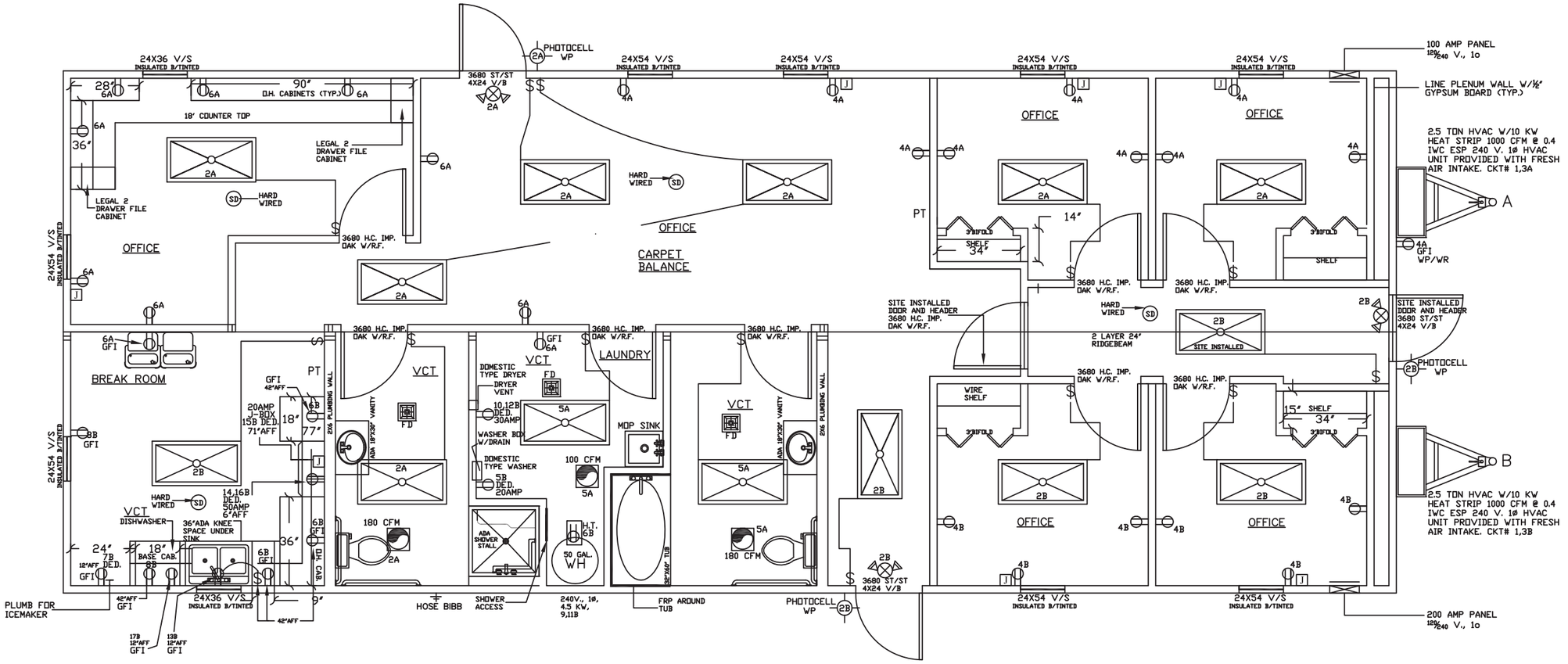
BY: NT

DBI 4923 A/B 24 X 60 BUSINESS

SHEET 5 OF 9

MECHANICAL PLAN

TN PLAN NO. 085



ELECTRICAL SCHEDULE 'A'			
CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1,3A	HVAC	60 A (2P) HACR TYPE	6-6-10 MC *
2,5A	LIGHTING/FANS	15 A	14-2 MC
4.6A	RECEPTACLES	20 A	12-2 NM

ELECTRICAL PANEL SIZING:	
DESCRIPTION SUBPANEL 'A'	KVA
GENERAL LIGHTING	
.0035 KW/SF X 705SF X 1.25=	3.1
20 RECEPTS AT 180VA/1000=	3.6
3 FAN AT .3 KW X 1.25=	1.1
HVAC	10.5

TOTAL 18.3 KW
TOTAL/240 X 1000= 76.3 AMPS
INSTALL 100 AMP PANEL & MAIN BREAKER
120/240 V 1ø

* INSULATION ON WIRING IN MC CABLE SHALL BE RATED FOR 90° C.

ELECTRICAL SCHEDULE 'B'			
CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1,3B	HVAC	60 A (2P) HACR TYPE	6-6-10 MC *
2B	LIGHTING	15 A	14-2 MC
4,6,8B	RECEPTACLES	20 A	12-2 NM
5B	WASHER	20 A (1P)	12-2 NM
7B	REFRIGERATOR	20 A (1P)	12-2 NM
9,11B	W/H	25 A (2P)	10-3 NM
10,12B	DRYER	30 A (2P)	10-3 NM
14,16B	DEDICATED	50 A (2P)	6-3 NM
15B	MICROWARE	20 A (1P)	12-2 NM
13B	GARB. DISP.	20 A (1P)	12-2 NM
17B	DISH WASHER	20 A (1P)	12-2 NM

ELECTRICAL PANEL SIZING:	
DESCRIPTION SUBPANEL 'B'	KVA
GENERAL LIGHTING	
.0035 KW/SF X 705SF X 1.25=	3.1
12 RECEPTS AT 180VA/1000=	2.2
WATER HEATER 4.5 KW X 1.25=	5.6
0 FANS AT .3 KW X 1.25=	0.0
WASHER	1.5
HVAC	10.5
REFRIGERATOR	1.5
DRYER	5.0
DEDICATED	9.6
MICROWARE	1.2
GARBAGE DISPOSAL	1.2
DISH WASHER	1.2

TOTAL 42.6 KW
TOTAL/240 X 1000= 177.5 AMPS
INSTALL 200 AMP PANEL & MAIN BREAKER
120/240 V 1ø

APPROVED RADCO APPROVED
Jan 23, 2012

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GOSHEN, IN 46528
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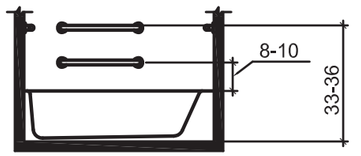
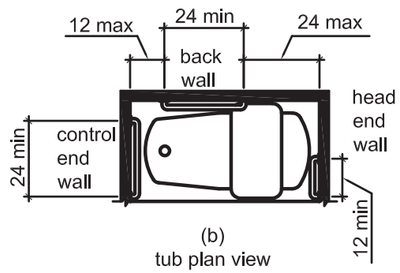
DBI 4923 A/B 24 X 60 BUSINESS
ELECTRICAL PLAN
TN PLAN NO. 085
SHEET 6 OF 9



(a)
tub elevation



(b)
tub plan view

ACCESSIBILITY NOTES FOR BATHTUB:

1. ACCESSIBLE BATHTUB SHALL BE EQUIPPED WITH A REMOVABLE IN-TUB SEAT. THE TOP OF THE BATHTUB SEAT SHALL BE 17 INCHES MINIMUM AND 19 INCHES MAXIMUM ABOVE THE BATHROOM FLOOR FINISH. THE SEAT DEPTH SHALL BE 15 INCHES MINIMUM AND 16 INCHES MAXIMUM. THE SEAT SHALL BE CAPABLE OF SECURE PLACEMENT.

2. BACK WALL OF BATHTUB SHALL HAVE TWO HORIZONTAL GRAB BARS, ONE SHALL BE 8 INCHES MINIMUM AND 10 INCHES MAXIMUM ABOVE THE RIM OF THE BATHTUB AND THE OTHER SHALL BE 33 INCHES MINIMUM AND 36 INCHES MAXIMUM ABOVE THE FINISH FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE.

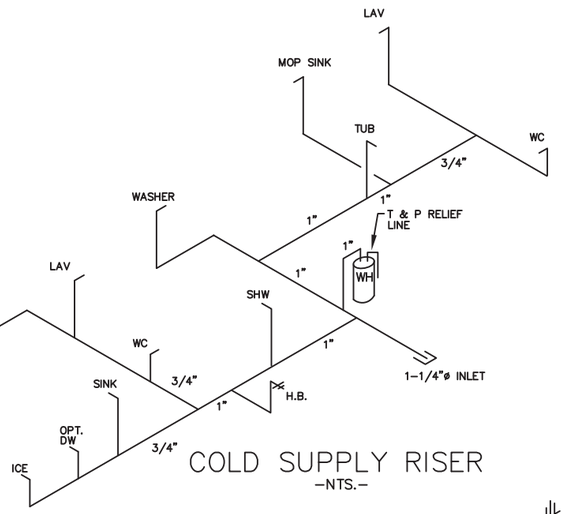
3. CONTROL END WALL SHALL HAVE ONE HORIZONTAL GRAB BAR 24 INCHES LONG MINIMUM INSTALLED AT THE FRONT EDGE OF THE BATHTUB.

4. HEAD END WALL SHALL HAVE ONE HORIZONTAL GRAB BAR 12 INCHES LONG INSTALLED AT THE FRONT EDGE OF THE BATHTUB.

5. CONTROLS SHALL BE BETWEEN THE BATHTUB RIM AND GRAB BAR, AND BETWEEN THE OPEN SIDE OF THE BATHTUB AND THE CENTERLINE OF THE WIDTH OF THE BATHTUB.

6. A SHOWER SPRAY UNIT WITH A HOSE AT LEAST 59 INCHES LONG THAT CAN BE USED BOTH AS A FIXED SHOWER HEAD AND AS A HAND-HELD SHOWER SHALL BE PROVIDED. SHOWER SPRAY CONTROL SHALL BE EQUIPPED WITH AN ON/OFF CONTROL WITH A NON-POSITIVE SHUT-OFF AND SHALL LIMIT TEMPERATURE TO 110°F (43°C). IF AN ADJUSTABLE HEIGHT SHOWER HEAD ON A VERTICAL BAR IS USED, THE BAR SHALL BE INSTALLED SO AS NOT TO OBSTRUCT THE USE OF THE GRAB BARS.

7. ENCLOSURE FOR BATHTUB SHALL NOT OBSTRUCT CONTROLS, FAUCETS, SHOWER AND SPRAY UNITS OR OBSTRUCT TRANSFER FROM WHEELCHAIR ONTO BATHTUB SEAT OR INTO BATHTUB. ENCLOSURE ON BATHTUB SHALL NOT HAVE TRACTS INSTALLED ON THE RIM OF THE OPEN FACE OF THE BATHTUB.



COLD SUPPLY RISER
-NTS.-

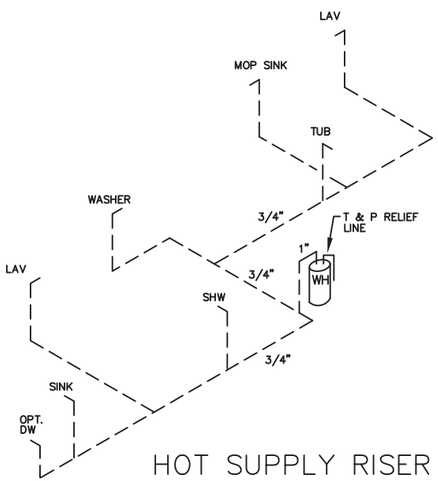
SUPPLY LINE NOTES:

1. SUPPLY LINE SIZING IS BASED ON AN ASSUMED AVAILABLE PRESSURE OF 50 PSI TO 60 PSI AT THE LOCATION OF THE INLET(S) SHOWN AFTER ANY DEDUCTIONS FOR WATER PRESSURE REDUCING VALVES OR SPECIAL EQUIPMENT SUCH AS BACKFLOW PREVENTOR, FILTER, SOFTENER, ETC. THIS AVAILABLE PRESSURE MUST BE VERIFIED PRIOR TO CONSTRUCTION.

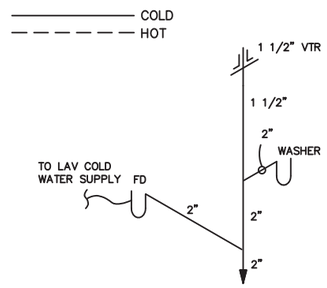
2. SUPPLY LINE INLET(S) SHOWN ON THESE PLANS ARE ASSUMED TO EXTEND ONLY TO EXTERIOR WALL. ALL SERVICE SUPPLY LINES UP TO THE INLET(S) ARE DESIGNED BY OTHERS AND SITE INSTALLED UNLESS OTHERWISE SPECIFIED.

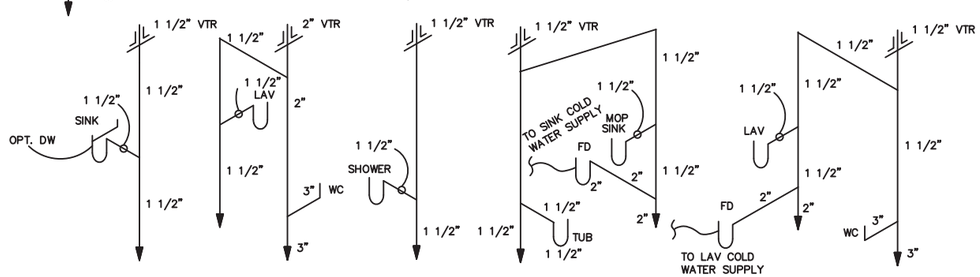
3. SUPPLY LINE SIZING MUST BE REDESIGNED IF THE BUILDING DOES NOT COMPLY WITH ANY OF THE ABOVE ASSUMPTIONS.

4. UNLESS OTHERWISE SPECIFIED ALL SUPPLY LINES ARE 3/4"ø AND ALL STUB-UPS ARE 1/2"ø.



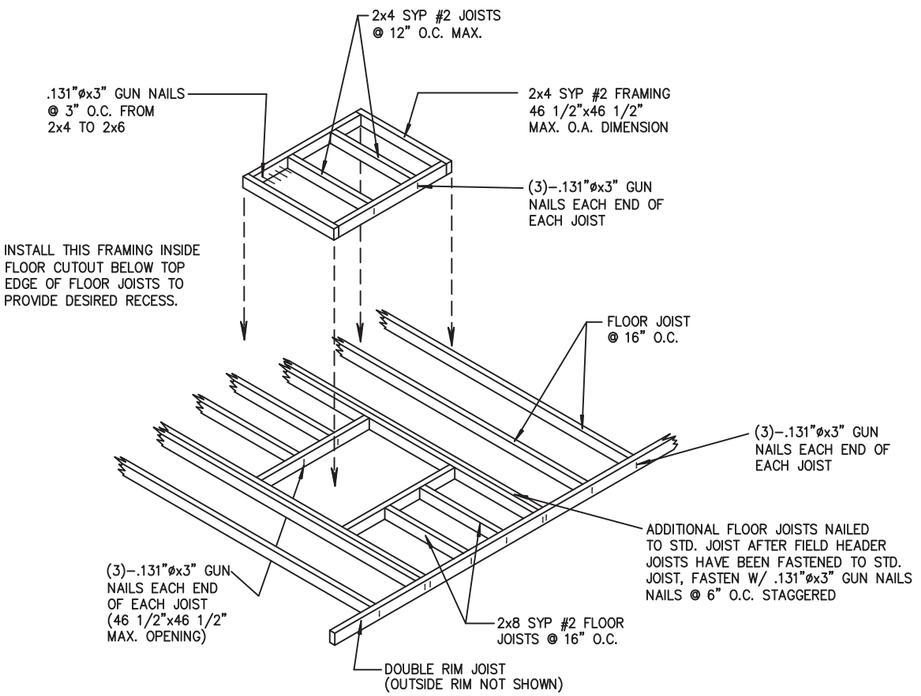
HOT SUPPLY RISER
-NTS.-





DWV RISERS
-NTS.-

ALL P-TRAPS SHALL BE SLIP JOINT TYPE TO ALLOW DRAIN LINE CLEANOUT.



ACCESSIBLE SHOWER STALL RECESSED FLOOR AREA DETAIL

- NTS -

APPROVED RADCO Jan 23, 2012 APPROVED

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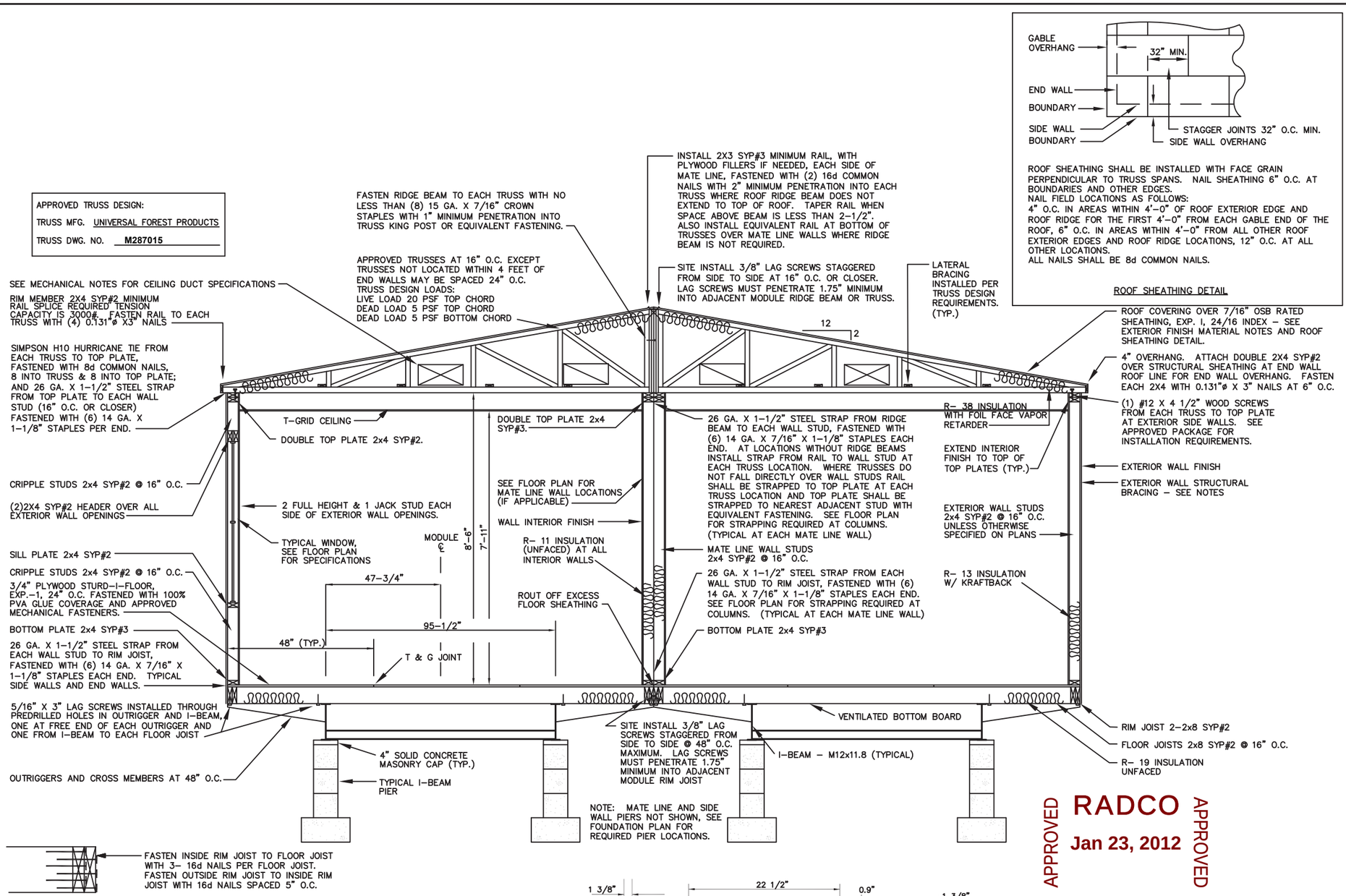
DBI 4923 A/B 24 X 60 BUSINESS	SHEET 7 OF 9
PLUMBING RISERS AND DETAILS	TN PLAN NO. 085

APPROVED TRUSS DESIGN:

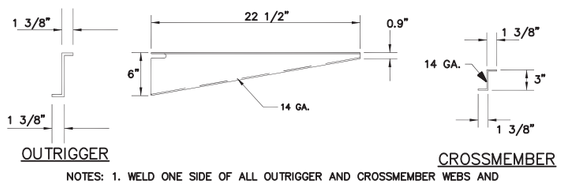
TRUSS MFG. UNIVERSAL FOREST PRODUCTS

TRUSS DWG. NO. M287015



ROOF SHEATHING SHALL BE INSTALLED WITH FACE GRAIN PERPENDICULAR TO TRUSS SPANS. NAIL SHEATHING 6" O.C. AT BOUNDARIES AND OTHER EDGES.
NAIL FIELD LOCATIONS AS FOLLOWS:
4" O.C. IN AREAS WITHIN 4'-0" OF ROOF EXTERIOR EDGE AND ROOF RIDGE FOR THE FIRST 4'-0" FROM EACH GABLE END OF THE ROOF, 6" O.C. IN AREAS WITHIN 4'-0" FROM ALL OTHER ROOF EXTERIOR EDGES AND ROOF RIDGE LOCATIONS, 12" O.C. AT ALL OTHER LOCATIONS.
ALL NAILS SHALL BE 8d COMMON NAILS.

ROOF SHEATHING DETAIL



NOTES: 1. WELD ONE SIDE OF ALL OUTRIGGER AND CROSSMEMBER WEBS AND FLANGES TO I-BEAM

PLYWOOD RIDGE BEAM CONSTRUCTION:

2 LAYERS 3/4" X 24" PLYWOOD RATED SHEATHING, EXP. 1, STRUCTURAL. I, 5 PLY/5 LAYER, 48/24 INDEX, EACH SIDE OF MATE LINE CONTINUOUS OVER ALL CLEAR SPANS AND OVER ALL SUPPORT COLUMNS.

NOTES:
1. PLYWOOD FACE GRAIN MUST BE PARALLEL TO DIRECTION OF RIDGE BEAM SPAN.
2. ALL PLYWOOD BUTT JOINTS MUST BE STAGGERED 24" APART MINIMUM.
3. ALL RIDGE BEAM 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 WITH PS 1-95.
5. PLYWOOD LAMINATIONS ON EACH SIDE OF THE MATE LINE MUST BE GLUE-NAILED TO ADJACENT LAYERS IN ACCORDANCE WITH PDS SUPPLEMENT #5, WITH AN ADHESIVE COMPLYING WITH ASTM D2559 OR CA25-4.
6. PLYWOOD MUST NOT BE TREATED WITH A FIRE RETARDANT PROCESS.
7. MOISTURE CONTENT MUST BE LESS THAN 16%.
8. RIDGE BEAMS MUST EXTEND CONTINUOUS OVER ENTIRE LENGTH OF ALL SUPPORT COLUMNS.
9. INSTALL 2X4 SPF#3 MINIMUM RIDGE BEAM BEARING STIFFENER OVER SUPPORT COLUMNS WHEN SPECIFIED ON FLOOR PLAN. STIFFENER HEIGHT SHALL NOT BE LESS THAN RIDGE BEAM HEIGHT MINUS 4 INCHES. FASTEN THE FACE OF THE STIFFENER TO THE RIDGE BEAM WITH 100% GLUE COVERAGE AND (6) 16 GA. X 2-1/2" STAPLES.

APPROVED RADCO Jan 23, 2012 APPROVED

GENERAL CROSS SECTION NOTES:

1. UNLESS OTHERWISE SPECIFIED ALL STEEL SHALL COMPLY WITH ASTM A36, YIELD STRENGTH 36 KSI.
2. ALL LAG SCREWS SHALL COMPLY WITH ANSI/ASME B18.2.1. Fyb = 60 KSI MINIMUM.
3. SEE FOUNDATION PLAN FOR PIER, WALL AND TIE DOWN ANCHORAGE LOCATIONS, ORIENTATIONS AND SPECIFICATIONS.
4. WHERE 1" STAPLES ARE SPECIFIED THIS SHALL MEAN 1" PENETRATION INTO HOLDING MEMBER.
5. WHERE KRAFTBACK OR OTHER VAPOR RETARDERS ARE SPECIFIED THEY SHALL BE INSTALLED ON THE INTERIOR SIDE OF THE ASSEMBLIES UNLESS OTHERWISE SPECIFIED.
6. ALL EXPOSED INSULATION SHALL HAVE FOIL FACING VAPOR RETARDER WITH A FLAMESPREAD RATING < 25 AND SMOKE DEVELOPED RATING < 450.
7. INTERIOR FINISH MATERIALS SHALL HAVE A MINIMUM CLASS 'C' FINISH RATING PER ASTM E 84 UNLESS OTHERWISE SPECIFIED.

GENERAL FINISH NOTE:

1. ALL ROOFING AND SIDING MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE PRODUCTS MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. ROOFING AND SIDING MATERIALS AND THEIR FASTENINGS SHALL BE DESIGNED TO RESIST THE COMPONENT WIND LOAD SHOWN ON THE COVER SHEET.
3. ALL ROOF COVERINGS SHALL MEET CLASS C OR BETTER REQUIREMENTS.
4. WALL FINISH SHALL BE INSTALLED OVER APPROVED WATER-RESISTIVE BARRIER AND BRACING MATERIAL.
5. WATER-RESISTIVE BARRIER BEHIND WALL COVERING SHALL BE A MINIMUM OF ONE LAYER OF NO. 15 ASPHALT FELT COMPLYING WITH ASTM D 226 FOR TYPE I FELT OR OTHER APPROVED MATERIALS. BARRIER SHALL BE ATTACHED TO STUDS OR SHEATHING, WHICHEVER IS LOCATED DIRECTLY BEHIND WALL COVERING, WITH FLASHING AS DESCRIBED IN IBC SECTION 1405.3 IN SUCH A MANNER AS TO PROVIDE A CONTINUOUS WATER-RESISTIVE BARRIER. THE WATER-RESISTIVE BARRIER SHALL BE INSTALLED IN ACCORDANCE WITH THE WALL FINISH MANUFACTURER'S SPECIFICATIONS.

INTERIOR FINISH MATERIALS:

CEILING – CLASS 'A' T-GRID CEILING INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

WALL – 1/2 INCH VINYL COVERED GYPSUM BOARD.

FLOOR – VINYL BLOCK TILE OR LINOLEUM IN RESTROOMS AND OTHER WET AREAS; CARPET, VINYL BLOCK TILE, OR LINOLEUM INSTALLED IN ALL OTHER AREAS.

EXTERIOR FINISH MATERIALS:

ROOF – ASPHALT SHINGLES OVER 2 LAYERS OF #15 FELT PAPER. SHINGLES SHALL COMPLY WITH ASTM D225 OR D3462. SHINGLES SHALL BE TESTED TO DETERMINE THE RESISTANCE OF THE SEALANT TO UPLIFT FORCES USING ASTM D6381. SHINGLES SHALL BE ATTACHED WITH AT LEAST 6 FASTENERS PER SHINGLE. SHINGLE FASTENERS SHALL COMPLY WITH IBC SECTION 1507.2.6. FELT SHALL CONFORM WITH ASTM D226, TYPE I, OR ASTM D4869, TYPE I. FLASHING SHALL COMPLY WITH IBC SECTION 1570.2.9.

WALL – 5/16" HARDIPLANK-LAPSIDING PER NER 405 FASTENED WITH 6d COMMON X 2" NAILS THROUGH OVERLAP AT EACH STUD, INSTALLED OVER APPROVED WATER-RESISTIVE BARRIER OVER STRUCTURAL BRACING MATERIAL.

EXTERIOR WALL STRUCTURAL BRACING:

SIDE WALLS:
BRACING INSTALLATION:
STRUCTURAL SHEATHING SHALL EXTEND CONTINUOUSLY FROM TOP TO BOTTOM PLATE WITH ALL SHEATHING EDGES EXTENDING 3/4" MINIMUM OVER 2" NOMINAL LUMBER OF THE SAME SIZE AND SPECIE AS EXTERIOR WALL FRAMING.
BRACING MATERIAL:
7/16" OSB RATED SHEATHING, EXP-1, FASTENED WITH 8d COMMON OR GALV. BOX NAILS AT 6" O.C. EDGES AND 12" O.C. IN THE FIELD.

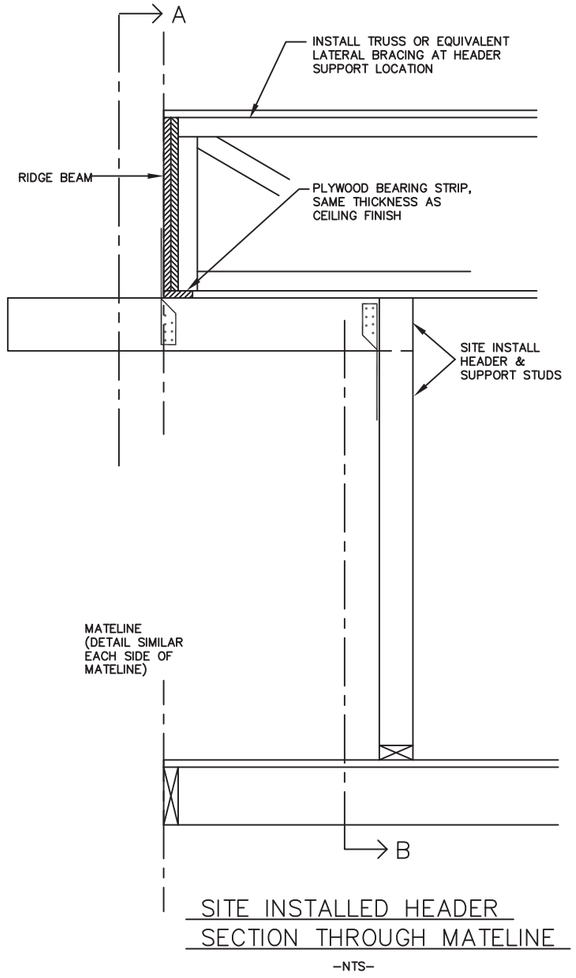
END WALLS:
BRACING INSTALLATION:
STRUCTURAL SHEATHING SHALL EXTEND CONTINUOUS FROM TOP OF TRUSS TOP CHORD TO BOTTOM OF FLOOR RIM JOIST WITH ALL SHEATHING EDGES SUPPORTED BY 2" NOMINAL LUMBER OF THE SAME SIZE AND SPECIE AS EXTERIOR WALL FRAMING.
BRACING MATERIAL:
7/16" OSB RATED SHEATHING, EXP-1, FASTENED WITH 8d COMMON OR GALV. BOX NAILS AT 3" O.C. EDGES AND 12" O.C. IN THE FIELD.

NADER TOMASBI REGISTERED ENGINEER AGRICULTURE COMMERCE No. 109918 STATE OF TENNESSEE
01/21/2012

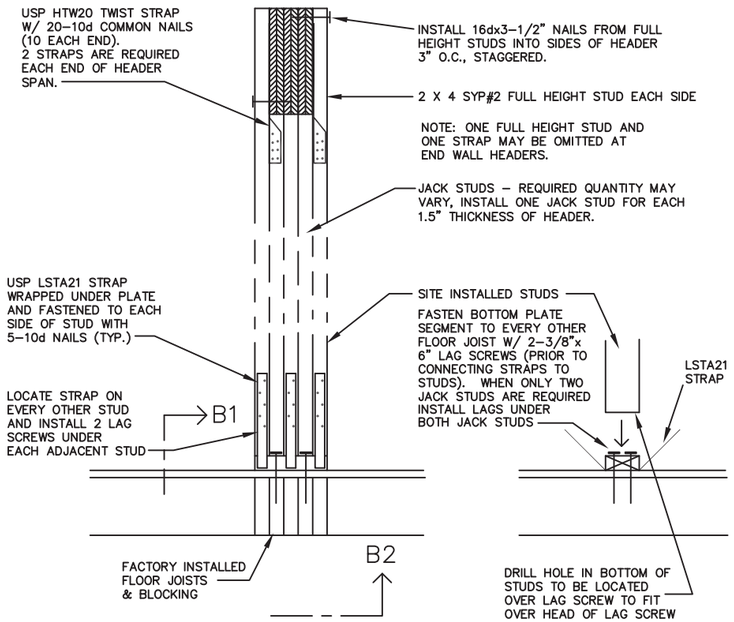
DIAMOND BUILDERS, INC.
440 THOMPSON DR., DOUGLAS GEORGIA 31534
(912)384-7080 FAX: (912)384-5721

NADER TOMASBI, P.E.
58665 GLENRIVER DRIVE
GOSHEN, IN 46528
574-370-3419

DATE: 01/15/2012		
SCALE : NTS		
CODES: SEE SUMMARY	REVISIONS:	BY: NT
LABELS: RADCO, TN		
DBI 4923 A/B 24 X 60 BUSINESS		SHEET 8 OF 9
CROSS SECTION	TN PLAN NO. 085	



SITE INSTALLED HEADER
SECTION THROUGH MATELINE
–NTS–

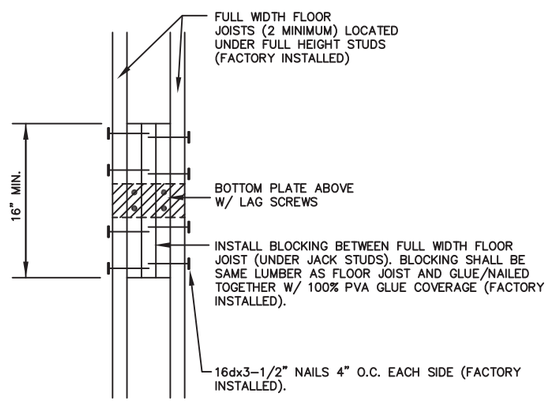


SECTION B
–NTS–

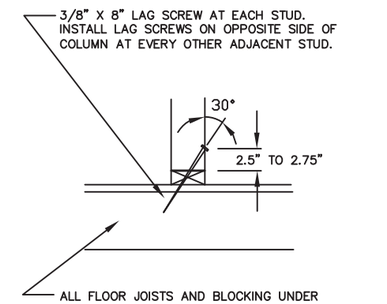
SECTION B–1
–NTS–

SITE INSTALLED HEADER NOTES:

1. □ INDICATES NO. OF LAYERS OF 3/4" x 12" PLYWOOD RATED SHEATHING, STRUCTURAL I, EXPOSURE 1, 48/24, 5 PLY/ 5 LAYER.
   * INDICATES WITH RIDGE BEAM BEARING STIFFENERS.
   SEE FLOOR PLAN FOR SYMBOL LOCATIONS.
2. PLYWOOD SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "RIDGE BEAM CONSTRUCTION NOTES" SPECIFIED HERE–IN OR IN THE SYSTEM PACKAGE EXCEPT THAT THERE SHALL BE NO BUTT JOINTS IN ANY OF THE PLYWOOD LAYERS.
3. PRIOR TO LAG SCREW INSTALLATION PRE–DRILL HOLES WITH A 1/4" DIAMETER BIT.
4. 10d NAILS SHALL HAVE 1 3/4" MINIMUM PENETRATION INTO LUMBER. PENETRATION MAY BE REDUCED TO 1 1/2" IF QUANTITY OF NAILS IS INCREASED BY 20%.



SECTION B–2
–NTS–

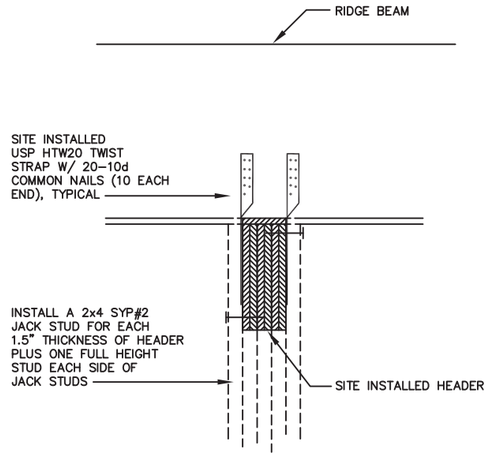


ALTERNATE COLUMN TO FLOOR FASTENING
–NTS–

THIS FASTENING MAY BE USED IN LIEU OF THE LSTA STRAPS AND LAG SCREWS SHOWN IN SECTION B ABOVE.

SITE INSTALLED HEADER INSTALLATION PROCEDURE:

1. PRIOR TO ATTACHING MODULES TOGETHER INSTALL TWIST STRAPS TO RIDGE BEAM AT SPECIFIED HEADER LOCATIONS. SEE SECTION A. DISTANCE BETWEEN STRAPS WILL BE DETERMINED BY HEADER WIDTH. SEE FLOOR PLAN FOR LOCATION OF HEADER(S).
2. MODULES MAY BE ATTACHED TOGETHER.
3. PLACE LSTA STRAPS UNDER BOTTOM PLATE SEGMENT AND ATTACH SEGMENT TO FLOOR JOISTS WITH LAG SCREWS. SEE SECTION B–1. NOTE THAT IF STUDS ARE TO BE INSTALLED IN A WALL, FACTORY SHOULD OMIT BOTTOM PLATE WHERE SITE INSTALLED BOTTOM PLATE SEGMENT IS TO BE PLACED OTHERWISE IT MUST BE REMOVED ON SITE.
4. FASTEN ALL JACK AND FULL LENGTH STUDS TOGETHER WITH 100% PVA GLUE COVERAGE AND 10d NAILS 6" O.C.
5. INSTALL PRE–FABRICATED SITE INSTALLED HEADER IN PLACE AND ATTACH TWIST STRAPS FROM RIDGE BEAM. HEADER SHALL BE SNUG AGAINST RIDGE BEAM OR BEARING STRIP.
6. INSTALL JACK AND FULL LENGTH STUDS IN PLACE AND ATTACH LSTA STRAPS FROM BOTTOM PLATE SEGMENT TO FULL HEIGHT AND JACK STUDS AS APPLICABLE.
7. INSTALL TWIST STRAPS FROM HEADER TO FULL HEIGHT STUDS.
8. APPLY FINISH MATERIALS.



SECTION A
–NTS–

APPROVED RADCO APPROVED
Jan 23, 2012

NADER TOMASBI REGISTERED ENGINEER AGRICULTURE COMMERCE No. 109918 STATE OF TENNESSEE
01/21/2012

DIAMOND BUILDERS, INC.
440 THOMPSON DR., DOUGLAS GEORGIA 31534
(912)384-7080 FAX: (912)384-5721

DATE: 01/15/2012	NADER TOMASBI, P.E. 58665 GLENRIVER DRIVE GOSHEN, IN 46528 574–370–3419
SCALE : NTS	
CODES: SEE SUMMARY	REVISIONS: BY: NT
LABELS: RADCO, TN	
DBI 4923 A/B 24 X 60 BUSINESS	SHEET 9 OF 9
SITE INSTALLED HEADER DETAILS	TN PLAN NO. 085

TYPHDR3000# 07/06

FOUNDATION NOTES:

1. 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. IF FOUNDATION PLANS ARE DESIGNED BY OTHERS, THE ENGINEER OF THE BUILDING PLANS SHALL NOT BE HELD RESPONSIBLE OR LIABLE FOR THE FOUNDATION DESIGN AND THE CONSEQUENTIAL PERFORMANCE OF THE SUPERSTRUCTURE'S STRUCTURAL COMPONENTS AND SYSTEMS RELATED THERETO.

2. ALL FOUNDATION CONSTRUCTION MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES.

3. 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 03953–91. TIE DOWN STRAPS AND CONNECTING HARDWARE SHALL HAVE 3150# MINIMUM WORKING CAPACITY.

4. 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 ALTERNATED ANCHORAGE DESIGN.

5. EXCAVATE AN ADDITIONAL 1 TO 2 INCHES AT BOTTOM AND SIDES OF ALL FOOTINGS THAT ARE POURED DIRECTLY AGAINST EARTH.

6. ALL PIERS SHALL BE CONSTRUCTED OF 8" X 8" X 16" NOMINAL STANDARD WEIGHT CONCRETE MASONRY UNITS CONFORMING TO ASTM C90 HAVING A UNIT COMPRESSIVE STRENGTH OF 1900 PSI (f'm = 1500 PSI). MASONRY UNITS SHALL BE FULLY LAID IN TYPE M OR S MORTAR OR COVERED WITH SURFACE BONDING CEMENT COMPLYING WITH ASTM C887 AND APPLIED IN STRICT ACCORDANCE WITH THE CEMENT MANUFACTURER'S INSTRUCTIONS, WITH THE BOTTOM COARSE FULLY LAID IN TYPE M OR S MORTAR. REINFORCEMENT BARS AND PIER FOOTINGS SHALL BE DESCRIBED IN THE PIER DETAILS.

7. CONCRETE SHALL BE STANDARD WEIGHT (150 PCF) WITH A MINIMUM COMPRESSIVE STRENGTH 3000 PSI AT 28 DAYS. MORTAR SHALL COMPLY WITH ASTM C270. GROUT SHALL COMPLY WITH ASTM C476 AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.

8. ALL REINFORCEMENT BARS SHALL COMPLY WITH ASTM A615, GRADE 60. REINFORCEMENT BARS SHALL BE UNCOATED DEFORMED BARS (NO EPOXY). REINFORCEMENT BARS SHALL BE EQUALLY SPACED AND PLACED WITH 3" CLEARANCE FROM BOTTOM AND SIDES OF THE FOOTING. AT SPLICES LAP ALL #4 BARS 24 INCHES MINIMUM AND LAP ALL #5 BARS 30 INCHES MINIMUM. OFF SET ALL SPLICES 30 INCHES MINIMUM.

9. ALL PIERS SHALL BE CAPPED WITH 4 INCHES OF SOLID MASONRY OR CONCRETE OR THE CAVITIES OF THE TOP COURSE SHALL BE FILLED WITH CONCRETE OR GROUT. PIERS SHALL PROVIDE A TRUE AND EVEN BEARING SURFACE.

10. THE CENTERLINE OF EACH PIER SHALL BE LOCATED DIRECTLY BELOW THE I–BEAM CENTERLINE WITH 1 INCH MAXIMUM TOLERANCE.

11. SOIL BEARING CAPACITY SHOWN ON THIS PLAN IS ASSUMED. IF THE ACTUAL SOIL BEARING CAPACITY IS LESS THAN 2000 PSF, THE ENGINEER MUST BE CONSULTED FOR REQUIRED ALTERNATE FOUNDATION DESIGN. FOOTINGS SHALL BE PLACED ON NON–EXPANSIVE SOILS ONLY.

12. WHEN CONTINUOUS PERIMETER SUPPORT IS NOT PROVIDED, INSTALL A TYPICAL I–BEAM TYPE PIER ON EACH SIDE OF ALL EXTERIOR DOOR OPENINGS. (MANUFACTURER'S RECOMMENDATION ONLY– OPTIONAL WHEN NOT SHOWN) SLIGHT ADJUSTMENT MAY BE REQUIRED TO INSURE OPERABILITY AFTER INSTALLATION OF BUILDING IS COMPLETE.

13. THE AREA UNDER FOOTINGS AND FOUNDATIONS SHALL HAVE ALL VEGETATION, STUMPS, ROOTS, AND FOREIGN MATERIALS REMOVED PRIOR TO THEIR CONSTRUCTION.

14. THE PERIMETER GRADE SHALL BE SLOPED AWAY FROM THE BUILDING TO PROVIDE POSITIVE DRAINAGE. THE GRADE OF THE GROUND UNDER THE BUILDING SHALL NOT BE LOWER THAN THE LOWEST SURROUNDING FINISHED LOT AREA GRADE IN ORDER TO PREVENT THE ACCUMULATION AND STANDING OF WATER UNDER THE BUILDING.

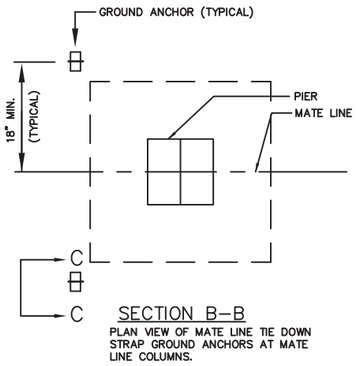
15. ALL STAIRS, RAMPS, DECKS AND OTHER SITE WORK NOT SHOWN ON THESE DRAWINGS ARE DESIGNED BY OTHERS AND SUBJECT TO THE APPROVAL OF THE JURISDICTION HAVING AUTHORITY.

16. TERMITE PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE APPLICABLE CODES WHEN REQUIRED BY SUCH CODES.

17. FOUNDATION ENCLOSURE (IF PROVIDED) IS DESIGNED BY OTHERS. ENCLOSURE MUST HAVE A MINIMUM NET VENT AREA OF VENTILATION OPENINGS OF NOT LESS THAN 1 SQUARE FOOT FOR EACH 150 SQUARE FEET OF CRAWL SPACE AREA. LOCATE OPENINGS TO PROVIDE CROSS VENTILATION OF ENTIRE CRAWL SPACE. INSTALL AN 18" X 24" MINIMUM OPENING FOR CRAWL SPACE ACCESS.

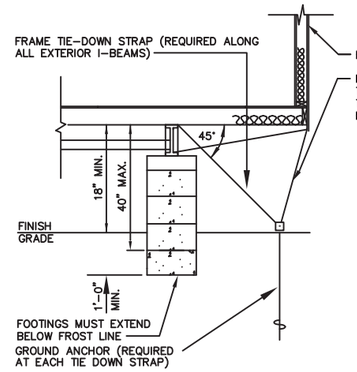
18. THE FOUNDATION DIMENSIONS SHOWN ARE NOMINAL. AN INCREASE IN MODULE WIDTH SHOULD BE EXPECTED DUE TO MODULE EXPANSION, SETTING TOLERANCES, ETC. THE FOUNDATION CONTRACTOR SHOULD CONSULT WITH THE MANUFACTURER OF THE MODULES PRIOR CONSTRUCTION OF THE FOUNDATION TO DETERMINE THE AMOUNT OF INCREASED WIDTH TO BE ADDED TO THE NOMINAL DIMENSIONS SHOWN ON THE FOUNDATION PLAN.

10–FNNOTES 10/26/11



SECTION B–B

PLAN VIEW OF MATE LINE TIE DOWN STRAP GROUND ANCHORS AT MATE LINE COLUMNS.

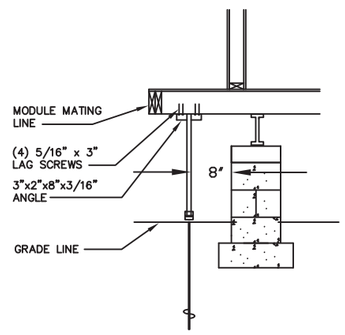


SECTION A–A

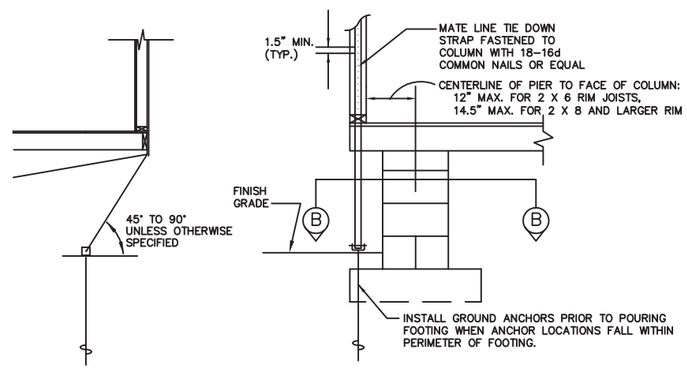
FRAME TIE–DOWN STRAP & GROUND ANCHOR ON CENTER SPACING CHART *		
WIND SPEED	WITHIN 6' OF END WALLS **	ELSEWHERE
110 MPH	6'–10"	10'–4"
100 MPH	8'–4"	12'–0"
90 MPH	10'–4"	12'–0"

* ALL POINTS ALONG I–BEAMS SHALL BE WITHIN 1/2 OF THESE DIMENSIONS OF A STRAP/ANCHOR LOCATION.

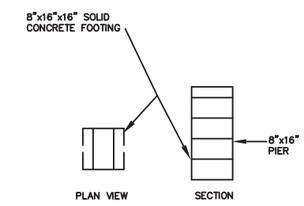
** THE FIRST STRAP/ANCHOR LOCATION FROM EACH END WALL SHALL NOT EXCEED 1/2 OF THIS DIMENSION.



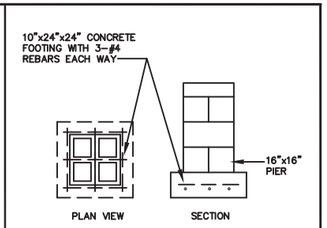
SECTION 'X'–'X'



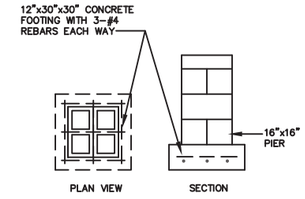
MATE LINE TIE DOWN STRAP DETAIL



PIER TYPE A



PIER TYPE B



PIER TYPE C

FOUNDATION DIMENSIONS

A MODULE WIDTH	B PIER TO MODULE EDGE	C STEEL BEAM SPACING
11'–9"	22–3/4"	95–1/2"

SOIL BEARING CAPACITY (PSF)	D MAXIMUM PIER SPACING
2000	5'–8"
3000	8'–6"

ALABAMA STRUCTURAL LOAD LIMITATIONS:

FLOOR LIVE LOAD:
A. 100 PSF CORRIDORS, 50 PSF ELSEWHERE.
B. 2000# CONCENTRATED LOAD OVER 30 INCH X 30 INCH AREA LOCATED ANYWHERE ON FLOOR.

ROOF LIVE LOAD:
A. 20 PSF.

ROOF SNOW LOAD:
A. GROUND SNOW LOAD: Pg = 10 PSF
B. FLAT–ROOF SNOW LOAD: Pf = 10 PSF
C. SNOW EXPOSURE FACTOR: Ce = 1.0
D. SNOW IMPORTANCE FACTOR: Is = 1.0
E. SNOW THERMAL FACTOR: Ct = 1.1
F. ROOF SLOPE FACTOR: Cs = 1.0
G. SLOPED ROOF SNOW LOAD: Ps = Pf X Cs
H. DESIGN IS BASED ON FULL OR PARTIALLY EXPOSED ROOF PER ASCE 7–05.

WIND LOAD:
A. WIND SPEED (3–SEC GUST): V = 110 MPH
B. WIND IMPORTANCE FACTOR: Iw = 1.0
C. WIND EXPOSURE CATEGORY: EXP. = C
D. INTERNAL PRESSURE COEFFICIENT: GCpi = 0.18
E. THIS BUILDING IS NOT DESIGNED FOR PLACEMENT ON THE UPPER HALF OF A HILL OR ESCARPMENT EXCEEDING 15 FEET IN HEIGHT.
F. BUILDING CATEGORY IS II PER ASCE 7–05.
G. BUILDING DESIGN IS BASED ON "ENCLOSED" CLASSIFICATION.
H. BUILDING MEAN ROOF HEIGHT SHALL NOT EXCEED 15 FEET.

SEISMIC LOAD:
A. SEISMIC IMPORTANCE FACTOR IS 1.0
B. SEISMIC OCCUPANCY CATEGORY IS II.
C. SEISMIC SITE CLASS IS D.
D. SPECTRAL RESPONSE COEFFICIENTS:
Ss = 0.52 S1 = 0.12
Sds = 0.49 Sd1 = 0.19
E. SEISMIC DESIGN CATEGORY IS C.
F. SEISMIC FORCE RESISTING SYSTEM IS A13.
G. SIMPLIFIED SEISMIC ANALYSIS PROCEDURE HAS BEEN USED.
H. RESPONSE MODIFICATION FACTOR R = 6.5.
I. SEISMIC RESPONSE COEFFICIENT Cs = N/A.
J. DESIGN BASE SHEAR V = 3200#

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

MATE LINE TIE DOWN STRAP REQUIREMENTS

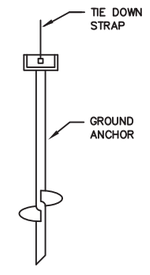
ANGLE FROM GRADE TO STRAP AS SHOWN BELOW	45°	90°
MAXIMUM TIE DOWN STRAP SPACING (EACH MODULE)	40'–0"	40'–0"

NOTE: MAXIMUM STRAP SPACING FOR ANGLES BETWEEN 45° AND 90° MAY BE INTERPOLATED.

NOTES:
1. SEE "MATE LINE TIE DOWN STRAP DETAIL" FOR CONNECTION REQUIREMENTS.
2. MATE LINE TIE DOWN STRAPS ARE REQUIRED ON EACH MODULE ALONG EACH MATE LINE.
3. A MATE LINE TIE DOWN STRAP SHALL BE LOCATED AS CLOSE AS POSSIBLE TO EACH EXTERIOR END WALL.
4. MATE LINE TIE DOWN STRAPS REQUIRED AT COLUMN LOCATIONS COUNT TOWARDS THE STRAP SPACING REQUIREMENTS SPECFIED ABOVE.

MATE LINE PIER REQUIREMENTS

PIER NUMBER △	MINIMUM SOIL BEARING CAPACITY	PIER TYPE	NUMBER OF MATE LINE TIE DOWN STRAPS REQ'D (EA. MODULE)
1	2000 PSF	A	1
	3000 PSF	A	1
2	2000 PSF	A	0
	3000 PSF	A	0
3	2000 PSF	C	1
	3000 PSF	B	1



SECTION C–C

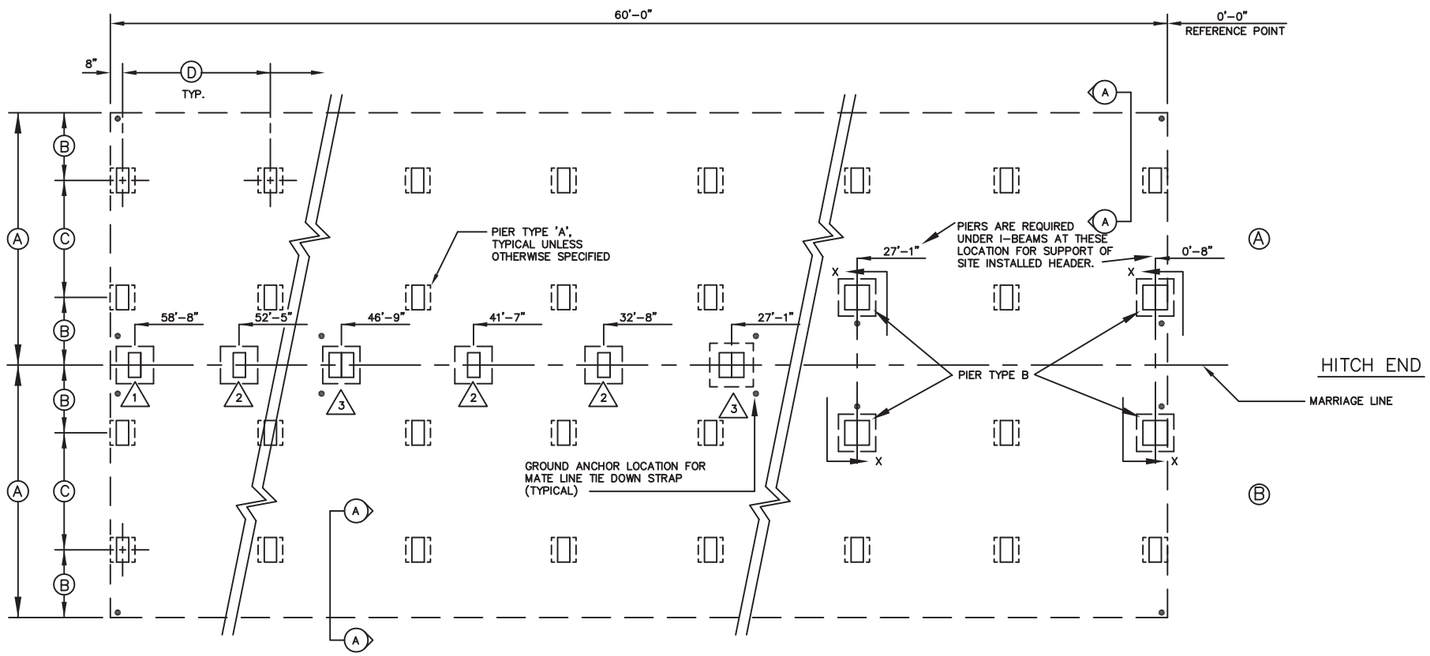
NADER TOMASBI REGISTERED ENGINEER AGRICULTURE COMMERCE No. 109918 STATE OF TENNESSEE

01/21/2012

APPROVED RADCO APPROVED
Jan 23, 2012

DIAMOND BUILDERS, INC.
440 THOMPSON DR., DOUGLAS GEORGIA 31534
(912)384–7080 FAX: (912)384–5721

DATE: 01/15/2012	NADER TOMASBI, P.E. 58665 GLENRIVER DRIVE GOSHEN, IN 46528 574–370–3419
SCALE : NTS	
CODES: SEE SUMMARY	REVISIONS: BY: NT
LABELS: RADCO, TN	
DBI 4923 A/B 24 X 60 BUSINESS	SHEET 1 OF 3
FOUNDATION NOTES & DETAILS	TN PLAN NO. 085



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GOSHEN, IN 46528
574-370-3419

DATE: 01/15/2012

SCALE : NTS

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LABELS: RADCO, TN

REVISIONS:

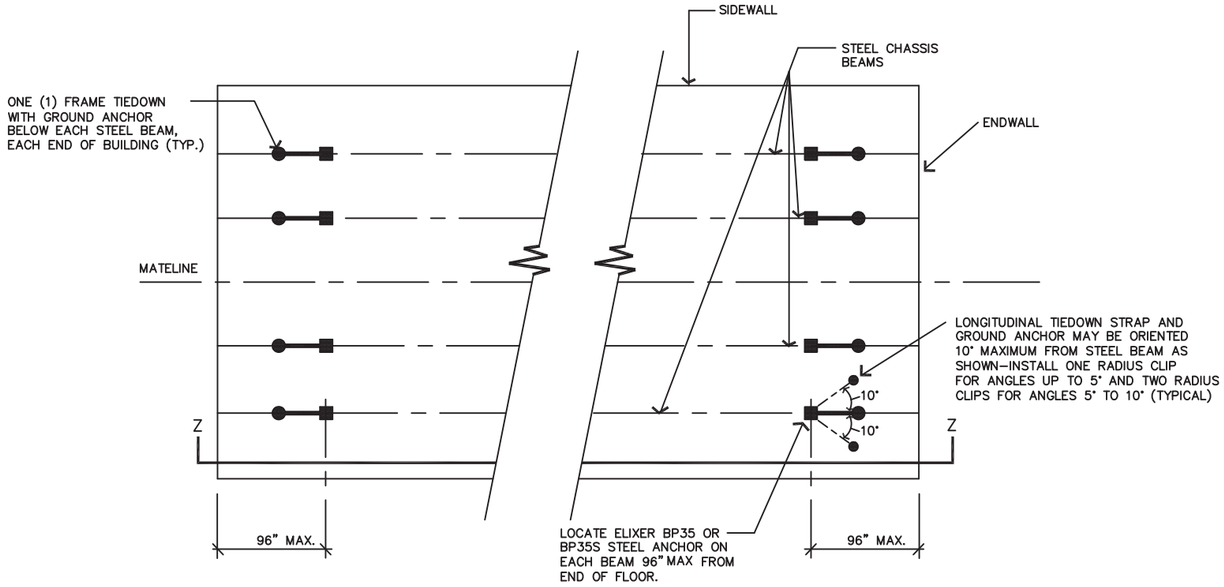
BY: NT

DBI 4923 A/B 24 X 60 BUSINESS

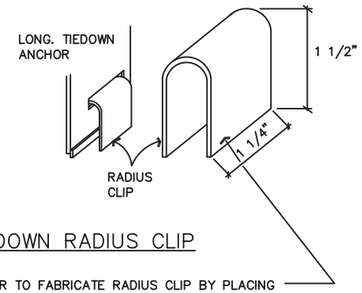
FOUNDATION PLAN

TN PLAN NO. 085

SHEET 2 OF 3

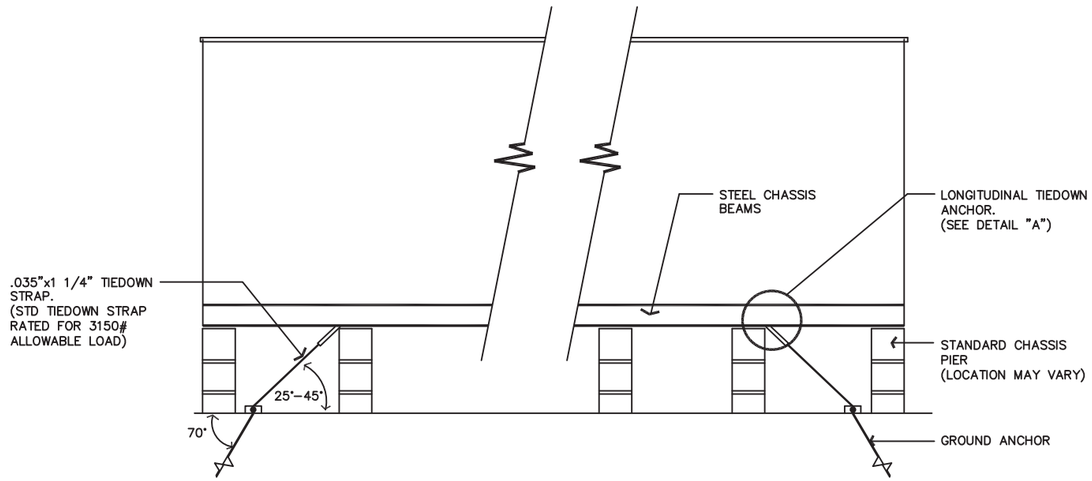


PLAN VIEW

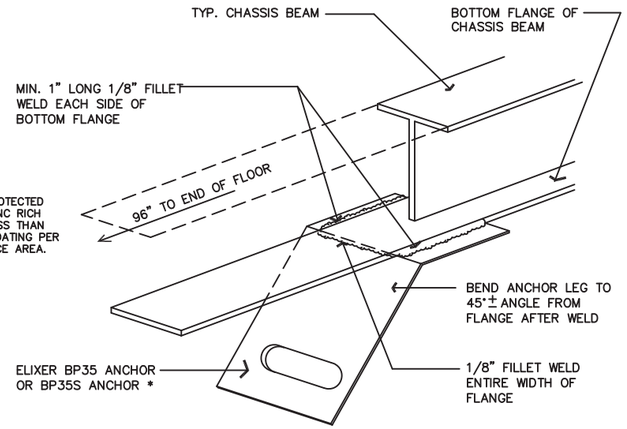


TIEDOWN RADIUS CLIP

INSTALLER TO FABRICATE RADIUS CLIP BY PLACING STRAIGHT 3" LENGTH OF 1 1/4"x.035" TIEDOWN STRAP IN ANCHOR SLOT AND MANUALLY BENDING THE STRAP TO THE CONFIGURATION SHOWN.



SECTION Z–Z



NOTE:
ALL WELDS SHALL BE PROTECTED WITH EXTERIOR GRADE ZINC RICH PAINT PROVIDING NOT LESS THAN 0.30 OUNCES OF ZINC COATING PER SQUARE FOOT OF SURFACE AREA.

DETAIL A

* IN LIEU OF THE ELIXER ANCHOR SPECIFIED ABOVE, "LONGITUDINAL FRAME BEAM CLAMPS" BY TIE DOWN ENGINEERING, INC. MAY BE USED. IF USED, THEY SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH TEST REPORT 99-MH03-TDE BY K2 ENGINEERING, INC. WHEN USED, TWO GROUND ANCHORS AND TIE DOWN STRAPS ARE REQUIRED AT EACH CLAMP LOCATIONS. ONE STRAP SHALL BE INSTALLED ON EACH SIDE OF THE I-BEAM AT EACH CLAMP LOCATION. EACH STRAP SHALL BE OFF SET 10° FROM THE DIRECTION PARALLEL TO THE I-BEAM AS SHOWN IN THE PLAN VIEW ON THIS PAGE.

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DBI 4923 A/B 24 X 60 BUSINESS		SHEET 3 OF 3
LONGITUDINAL TIE DOWN	TN PLAN NO. 085	

2LONGTIE 08/13/10