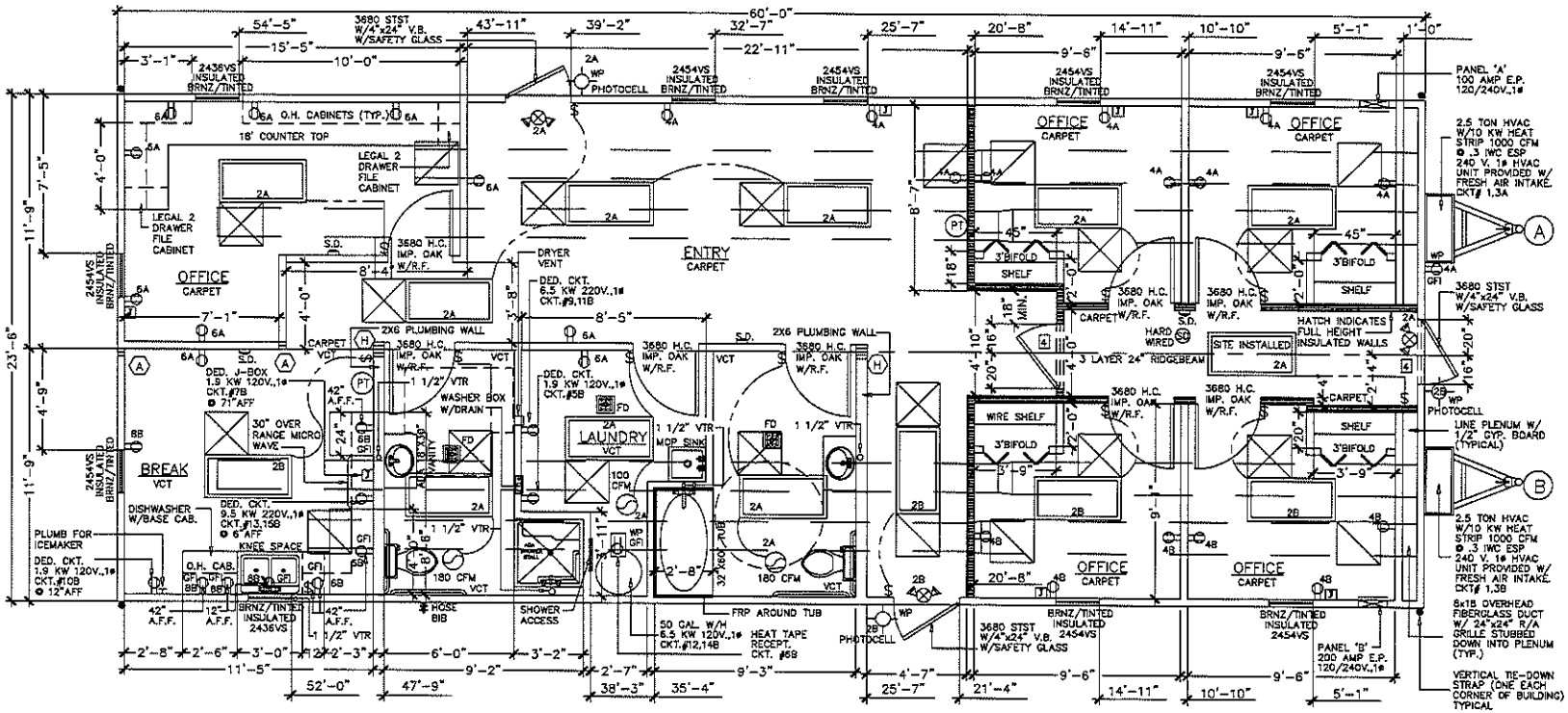

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SITE INSTALLED HEADER NOTES:

1. FOR EACH 1.5" THICKNESS OF EACH HEADER A 2x4 SPF #2 JACK STUD SHALL BE INSTALLED FOR HEADER SUPPORT ON EACH SIDE OF THE SPAN. EACH SIDE OF HEADER SPAN SHALL ALSO HAVE 2-2x4 SPF #2 FULL LENGTH STUDS WITH EACH STUD FASTENED TO JACK STUDS WITH 16d COMMON NAILS 12" O.C., AND FASTENED TO HEADER WITH 3-16d COMMON NAILS. NOTE: STUDS MAY BE SITE INSTALLED.
2. A FLOOR JOIST SHALL BE INSTALLED DIRECTLY UNDER EACH REQUIRED JACK STUD, EACH SIDE OF HEADER.
3. UPLIFT WIND ANCHORAGE
   A. INSTALL 2 STEEL STRAPS FROM RIDGE BEAM TO EACH 2x MEMBER OF HEADER (TYPICAL EACH HALF).
   B. INSTALL 1-3/8" x 6" LAG SCREW FROM EACH SIDE OF EACH JACK STUD INTO FLOOR JOIST BELOW. INSTALL LAG SCREW AT 30° ANGLE FROM JACK STUD AND STARTING APPROXIMATELY 2" ABOVE THE END OF THE STUD. PRE-DRILL ALL HOLES WITH 1/4" DIAMETER BIT.
4. HEADERS CONSISTING OF 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 JOINT IN ANY OF THE PLYWOOD LAYERS.
5. ☐ - # OF LAYERS OF 3/4" x 11-1/4" RATED SHEATHING, PLYWOOD STRUCT. 1, EXP. 1 48/24, 5 PLY/ 5 LAYER.

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) (2) 2x6 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.

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LICENSED PROFESSIONAL ENGINEER James E. Bradley 9480 OKLAHOMA

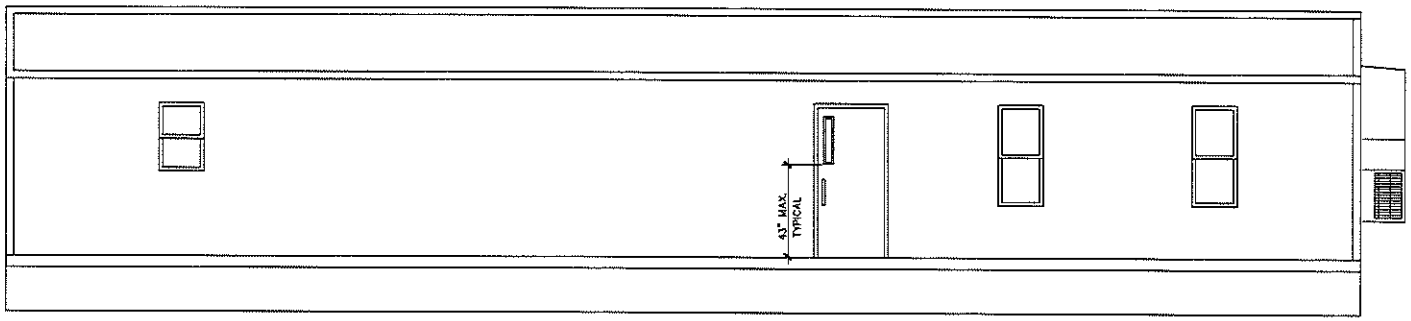
DIAMOND BUILDERS INC.	P.O. BOX 2200, DOUGLASS, GEORGIA 31534 — 440 THOMPSON DR. (912) 384-7060
DATE: 3-8-13	THIRD PARTY: RADCO 5456 CRENSHAW ST. TAMPA, FLORIDA 33634 813-243-0370
SCALE : 3/16"=1'-0"	
CODES: SEE NOTES	REVISIONS:
STATES: OK.	BY: J.B.
DBI5499 A/B 24 x 60 BUSINESS	SHEET 2 OF 6
FLOOR PLAN	DESTINATION: DUNCAN

ELEVATION NOTES: TYPICAL

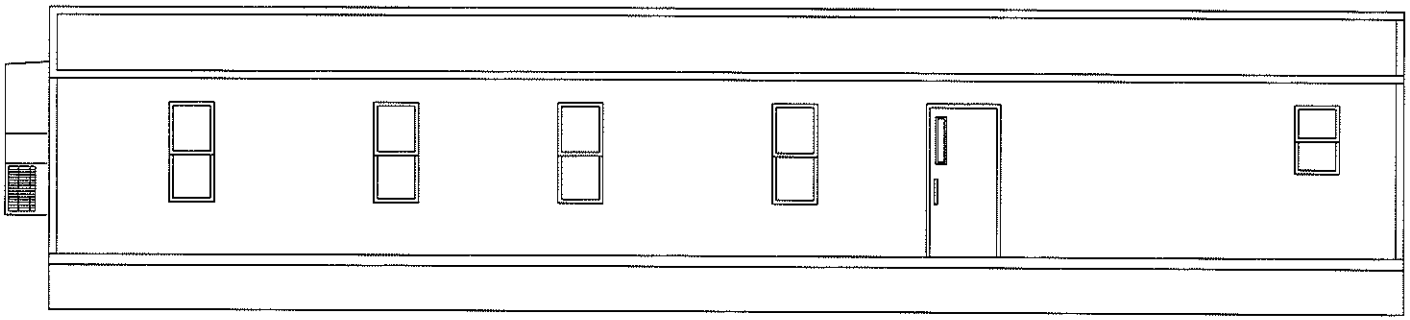
SEE-CROSS SECTION FOR METHOD OF ROOF VENTILATION

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.

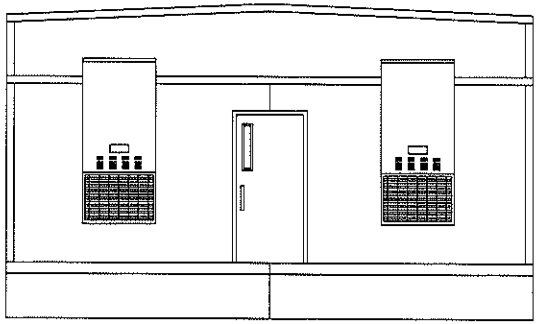


REAR ELEVATION

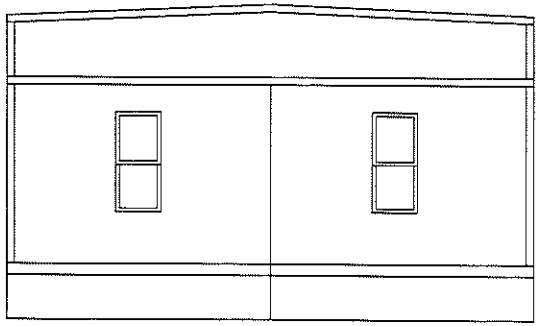


FRONT ELEVATION

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



LEFT ELEVATION



RIGHT ELEVATION

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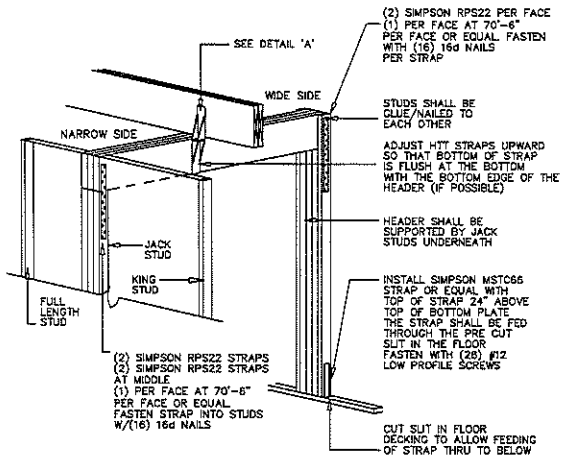
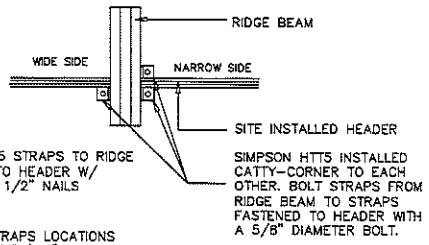
OKLAHOMA
P.E.

DIAMOND BUILDERS INC.
P.O. BOX 2200, DOUGLASS, GEORGIA 31534
440 THOMPSON DR. (912) 384-7080

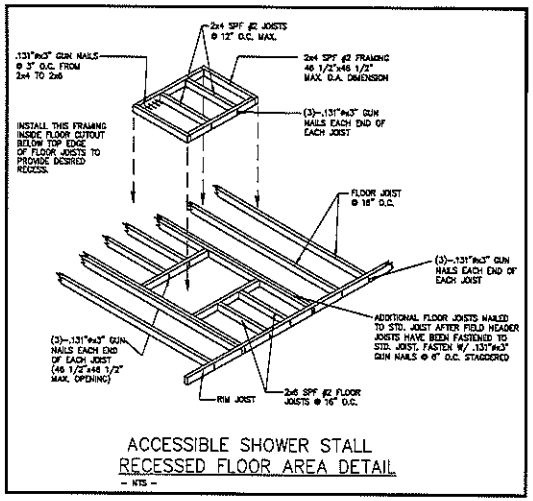
DATE: 3-5-13	THIRD PARTY: RADCO 5456 CRENSHAW ST, TAMPA, FLORIDA 33634 813-243-0370
SCALE : NO SCALE	
CODES: SEE NOTES	REVISIONS:
STATES: OK.	BY: J.B.
DBI5499 A/B 24 x 60 BUSINESS	SHEET 4 OF 6
ELEVATIONS	DESTINATION: DUNCAN



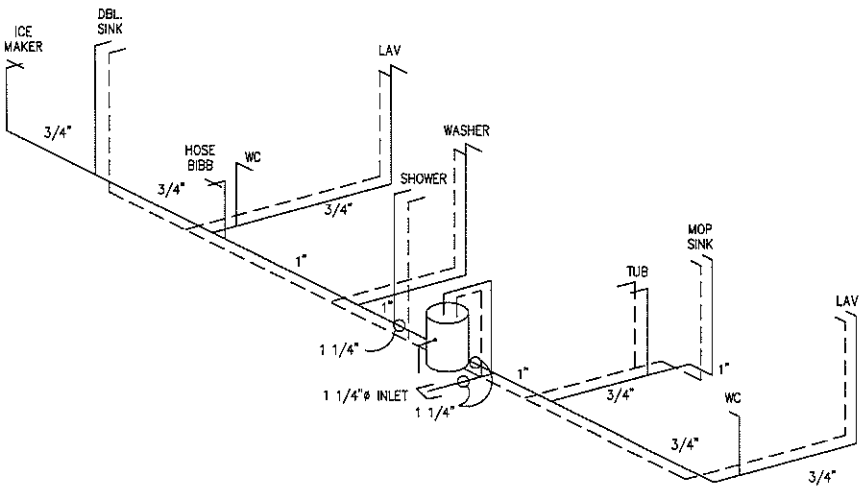
MATELINE HEADER DETAIL



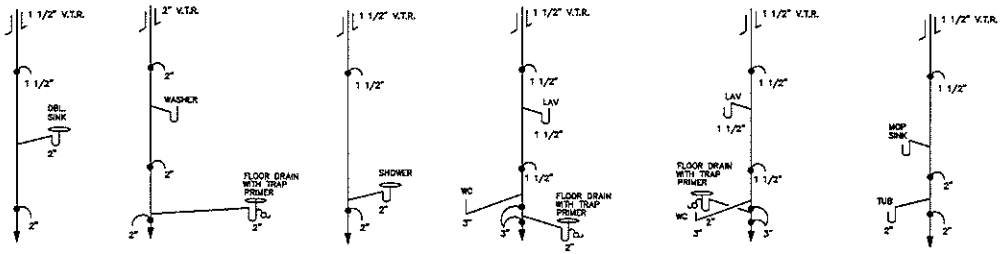
DETAIL 'A'



ACCESSIBLE SHOWER STALL
RECESSED FLOOR AREA DETAIL
– NTS –



SUPPLY RISER –NTS–



DWV RISER NTS

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SUPPLY LINE SIZING IS BASED ON AN ASSUMED AVAILABLE PRESSURE OF 45 TO 50 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.

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P.E.
20 2013

DIAMOND BUILDERS INC.
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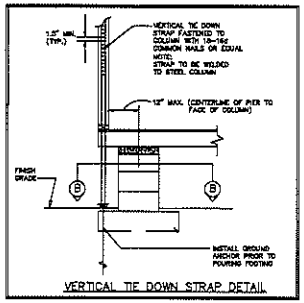
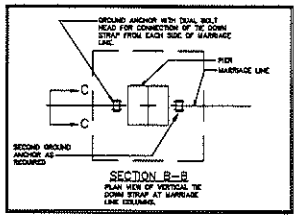
440 THOMPSON DR. (912) 384-7080

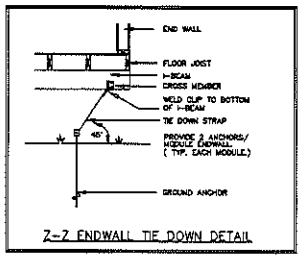
DATE: 3-5-13	THIRD PARTY: RADCO 5456 CRENSHAW ST. TAMPA, FLORIDA 33634 813-243-0370
SCALE : NO SCALE	
CODES: SEE NOTES	REVISIONS: BY: J.B.
STATES: OK.	
DBI5499 A/B 24 x 60 BUSINESS	SHEET 3 OF 6
RISERS/DETAILS	DESTINATION: DUNCAN



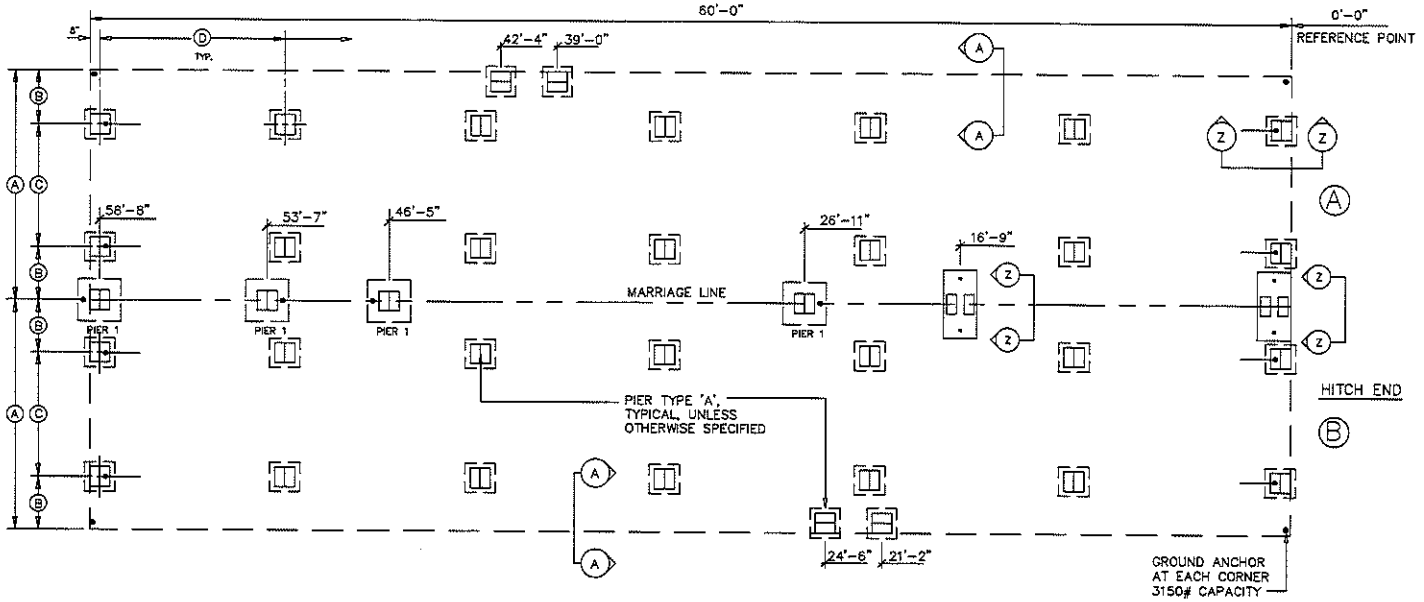
VERTICAL TIE DOWN STRAP DETAIL

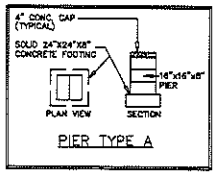


SECTION B–B
PLAN VIEW OF VERTICAL TIE DOWN STRAP AT MARRIAGE LINE LOCATION.

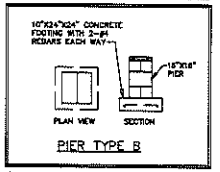


Z–Z ENDWALL TIE DOWN DETAIL

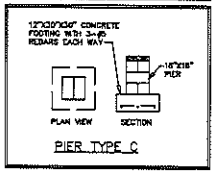




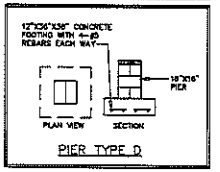
PIER TYPE A



PIER TYPE B

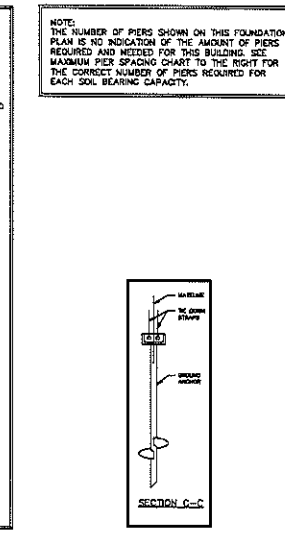


PIER TYPE C



PIER TYPE D

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 Z–Z

PLAN
PIER TYPE E

NOTE:
THE NUMBER OF PIERS SHOWN ON THIS FOUNDATION PLAN IS NO INDICATION OF THE AMOUNT OF PIERS REQUIRED AND NEEDED FOR THIS BUILDING. SEE MAXIMUM PIER SPACING CHART TO THE RIGHT FOR THE CORRECT NUMBER OF PIERS REQUIRED FOR EACH SOIL BEARING CAPACITY.

FOUNDATION DIMENSIONS

A MODULE WIDTH	B PIER TO MODULE EDGE	C STEEL BEAM SPACING
11'-0"	23"	90 1/2"

D MAXIMUM PIER SPACING	MINIMUM SOIL BEARING CAPACITY
6'-9"	2000 PSF
8'-8"	3000 PSF

DESIGN LOADS

WIND SPEED: 100 MPH	ROOF LIVE LOAD: 20 PSF
BLDG. EXPOSURE: EXP. C	SNOW LOAD: 20 PSF

MARRIAGE WALL PIER REQUIREMENTS

PIER NUMBER	MINIMUM SOIL BEARING CAPACITY	PIER TYPE	NUMBER OF VERTICAL TIE DOWN STRAPS REQD (EACH MODULE)
1	2000 PSF	B	1
	3000 PSF	C	1

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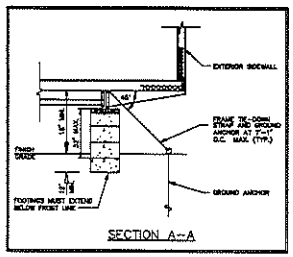
Mar 20, 2013

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" TYP-1, FINISH B, GRADE 1 ZMAC 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 HELICES, 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 CONCRETE MASONRY UNITS CONFORMING TO ASTM D90. 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. SEE SHEET 1 OF 6 FOR BUILDING DESIGN LOADS.
9. I-BEAM SUPPORT PIERS MAY BE INSTALLED LATERALLY OFF 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 OPERABILITY AFTER INSTALLATION OF BUILDING IS COMPLETE.



SECTION A–A

SECTION C–C

CONSULTING ENGINEER | JAMES BRADLEY, P.E. – 212 FOX TRAIL – PARKESBURG, PA. 19365 – (610) 857–2458

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440 THOMPSON DR. (912) 384-7060

DATE: 3-5-13	THIRD PARTY: RADCO 3456 GRENSHAW ST. TAMPA, FLORIDA 33634 813-243-0370	
SCALE : NO SCALE		
CODES: SEE NOTES	REVISIONS:	By: J.B.
STATES: OK.		
DBI5499 A/B 24 x 60 BUSINESS		SHEET 5 OF 6
FOUNDATION	DESTINATION: DUNCAN	

INTERIOR FINISH MATERIAL:

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

WALL – 1/2" GYPSUM BOARD (VINYL COVERED) INSTALLED PER MANUFACTURERS SPECIFICATIONS.

RESTROOMS – FRP OVER 1/2" GYPSUM BOARD INSTALLED PER MANUFACTURERS SPECIFICATIONS.

FLOOR – AS NOTED ON PLAN.

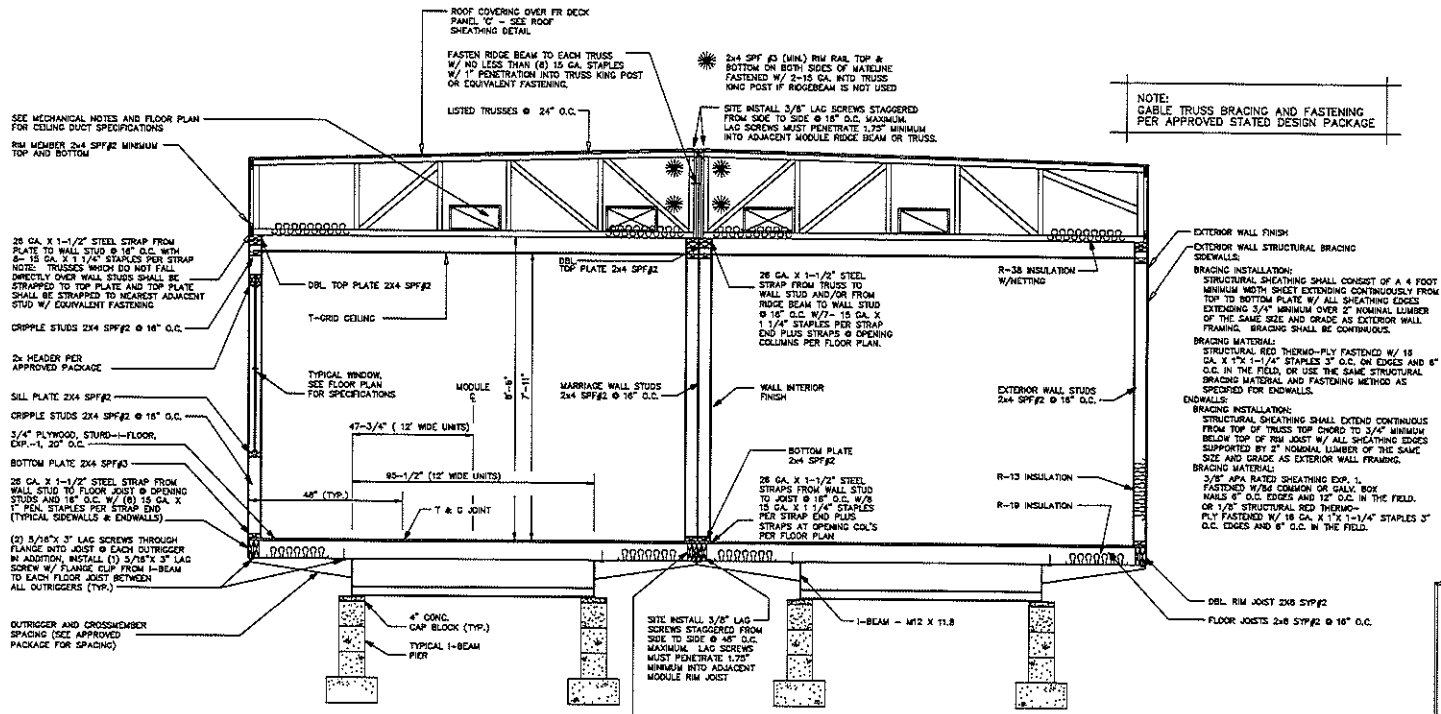
NOTE: INTERIOR FINISHES SHALL BE CLASS 'C' OR BETTER.

EXTERIOR FINISH MATERIAL:

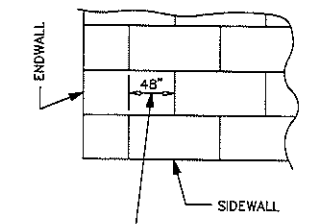
ROOF – MULE-HIDE 45 MIL (WHITE) EPDM FULLY ADHERED IN ACCORDANCE WITH ESR-1775 OVER 7/16" MULE-HIDE FR DECK PANEL 'C' INSTALLED PER MANUFACTURERS SPECIFICATIONS.

ROOF – 45 MIL VERSAGARD EPDM (WHITE) FULLY ADHERED TO 1/4" DENSDECK. DENSDECK FASTENED TO MINIMUM 7/16" OSB SHEATHING ACCORDING TO APPROVED STRUCTRAL PACKAGE.

WALL – 5/16 INCH HARDI-PANEL (STUCCO) OVER APPROVED MOISTURE BARRIER. INSTALLED PER MANUFACTURERSD SPECIFICATIONS.



NOTE:
GABLE TRUSS BRACING AND FASTENING PER APPROVED STATED DESIGN PACKAGE



MULEHIDE:
FR DECK PANEL 'C' TO BE FASTENED TO TRUSSES W/NO. 8x2 1/2 INCH LONG COURSE THREAD SCREWS SPACED 6" O.C. AT ALL SUPPORTS
OR
FIRESTONE:
7/16" COVER DX SHEATHING TO BE FASTENED TO TRUSSES W/SPAX NO. 8 x2 1/2 INCH LONG WOOD TO WOOD SCREWS SPACED 6" O.C. AT ALL SUPPORTS

ROOF SHEATHING DETAIL

APPROVED TRUSS DESIGN:
TRUSS PAGE # : UNIVERSAL
TRUSS DRAWING. # SF089039
OR ATTACHED DWG.

APPROVED **RADCO** APPROVED
Mar 20, 2013

GENERAL CROSS-SECTION NOTES:

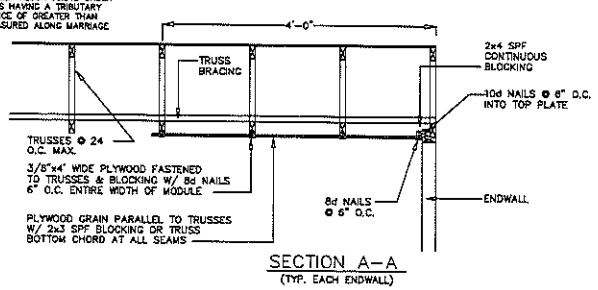
1. UNLESS OTHERWISE SPECIFIED, ALL STEEL MUST COMPLY W/ ASTM A36, YIELD STRENGTH = 36 KSI.
2. ALL LAG SCREWS MUST COMPLY W/ ANSI/ ASME B18.2.1. F_{YB}= 60 KSI MINIMUM.
3. SEE FOUNDATION PLAN FOR PIER AND TIE-DOWN STRAPPING LOCATIONS, ORIENTATIONS, AND SPECIFICATIONS.

RIDGE BEAM CONSTRUCTION:

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

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 1-95.
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 15%.
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.



SECTION A-A
(TYP. EACH ENDWALL)

CONSULTING ENGINEER | JAMES BRADLEY, P.E. – 212 FOX TRAIL – PARKESBURG, PA. 19365 – (610) 857-2458

LICENSED PROFESSIONAL ENGINEER
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OKLAHOMA
Mar 20

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SCALE : NO SCALE	
CODES: SEE NOTES	REVISIONS:
STATES: OK.	BY: J.B.
DBI5499 A/B 24 x 60 BUSINESS	SHEET 6 OF 6
CROSS SECTION	DESTINATION: DUNCAN

GENERAL NOTES:

1. ACCESS TO BUILDING FOR PERSONS IN WHEELCHAIRS IS DESIGNED BY AND FIELD BUILT BY OTHERS AND SUBJECT TO LOCAL JURISDICTION APPROVAL. 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 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.
4. SEE CROSS SECTION FOR ROOF TO WALL AND WALL TO FLOOR STRAPPING CONNECTIONS.
5. PORTABLE FIRE EXTINGUISHER PER N.F.P.A. = 10 INSTALLED BY OTHERS ON SITE, AND SUBJECT TO LOCAL JURISDICTION.
6. 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).
7. WHEN LOW SIDES OF ROOF PROVIDE LESS THAN 6" OF OVERHANG, GUTTERS AND DOWN SPOUTS SHALL BE SITE INSTALLED, DESIGNED BY OTHERS, SUBJECT TO LOCAL JURISDICTION APPROVAL.
8. IN WIND-BORNE DEBRIS REGIONS, EXTERIOR GLAZING SHALL BE IMPACT RESISTANT OR PROTECTED WITH AN IMPACT RESISTANT COVERING MEETING THE REQUIREMENTS OF AN APPROVED IMPACT RESISTANT STANDARD, OR ASTM E1996. WIND-BORNE DEBRIS REGIONS ARE DESIGNATED IN SECTION 1609 OF THE IBC.
9. WINDOWS AND DOORS MUST BE CERTIFIED FOR COMPLIANCE WITH THE WIND DESIGN PRESSURES FOR COMPONENTS AND CLADDING.
10. STRUCTURAL DETAILS NOT INCLUDED IN THIS PLAN SET ARE TO BE CONSTRUCTED ACCORDING TO THE MANUFACTURER'S STATE APPROVED BUILDING SYSTEM MANUAL.

ELECTRICAL NOTES:

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 SEC 410-8(b).
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. 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. THE RECEPT ITSELF SHALL ALSO BE LISTED FOR DAMP AND WET LOCATIONS AS PER 2008 NEC.
9. EXTERIOR LIGHTS NOT INTENDED FOR 24 HOUR USE SHALL BE CONNECTED TO A PHOTOCELL OR TIMER.

PLUMBING NOTES:

1. TOILETS SHALL BE ELONGATED WITH NONABSORBENT OPEN FRONT SEATS.
2. BODY BOOM 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. THIS UNIT MUST BE CONNECTED TO A PUBLIC WATER SUPPLY AND SEWER SYSTEM IF THESE ARE AVAILABLE.
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 CPVC, OR COPPER; AND 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. PIPING IN UNCONDITIONED SPACES MUST BE PROTECTED WITH INSULATION HAVING A MINIMUM R FACTOR OF 6.5 IN ACCORDANCE WITH SECTION 2306.8.
14. THE USE OF THIS BUILDING WITHOUT THE REQUIRED DRINKING FOUNTAIN IS SUBJECT TO APPROVAL BY AUTHORITY HAVING JURISDICTION.
15. THE BUILDING OWNER ASSUMES ALL RESPONSIBILITY FOR REQUIRED DRINKING FOUNTAIN WHEN NOT SHOWN ON PLANS.

STRUCTURAL LOAD LIMITATIONS

BUILDING OCCUPANCY CATEGORY: II

FLOOR LIVE LOAD:
A. 50 PSF, 100 PSF CORRIDOR
B. 2000 LB. CONCENTRATED LOAD OVER 30 INCH x 30 INCH 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	= 1.0		SNOW EXPOSURE FACTOR
D. Is	= 1.0		SNOW IMPORTANCE FACTOR
E. Ct	= 1.1		SNOW THERMAL FACTOR

WIND LOAD:

A. 100		WIND SPEED
B. Iw = 1.0		WIND IMPORTANCE FACTOR
C. C		WIND EXPOSURE CATEGORY
D. GCpi= 0.18		INTERNAL PRESSURE COEFFICIENT

E. Pr: ZONE 1: 20.4 PSF Pw: ZONE 4: 22.6 PSF
ZONE 2: 32.7 PSF ZONE 5: 27.2 PSF
ZONE 3: 34.9 PSF

F. THIS BUILDING IS NOT DESIGNED FOR PLACEMENT ON THE UPPER HALF OF A HILL OR ESCARPMENT EXCEEDING 15 FEET IN HEIGHT.

SEISMIC LOAD:

A. Ie = 1.0	SEISMIC IMPORTANCE FACTOR
B. D	SITE CLASS
C. A13	SEISMIC FORCE RESISTING SYSTEM.
D. C	SEISMIC DESIGN CATEGORY
E. EQUIVALENT LATERAL FORCE ANALYSIS PROCEDURE	
F. Ss = .537	MAPPED SPECTRAL RESPONSE COEF.
G. S1 = .285	MAPPED SPECTRAL RESPONSE COEF.
H. Sds = .49	SPECTRAL RESPONSE COEFFICIENT
I. Sd1 = .19	SPECTRAL RESPONSE COEFFICIENT
J. V = .3255 LB	DESIGN BASE SHEAR
K. R = 6.5	RESPONSE MODIFICATION COEFFICIENT
L. Cs = 0.08	SEISMIC RESPONSE COEFFICIENT

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

ACCESSIBILITY NOTES:

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 BENDING.
3. WHERE STORAGE FACILITIES SUCH AS CABINETS, SHELVES, CLOSETS AND DRAWERS ARE PROVIDED AT LEAST ONE 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). SPACES SHALL BE 15 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FLOOR FOR FORWARD REACH OR SIDE REACH. CLOTHES RODS OR SHELF HOOKS SHALL BE A MINIMUM OF 48 INCHES ABOVE THE FLOOR (48 INCHES MAXIMUM WHEN DISTANCE FROM WALL). CHAIR TO NOT EXCEEDS 10 INCHES, SHELVES IN KITCHENS OR TOILET ROOMS SHALL BE 40 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE IN FLOOR.
4. CONTROLS, DISPENSERS, RECEPTACLES AND OTHER OPERABLE EQUIPMENT SHALL BE NO HIGHER THAN 48 INCHES ABOVE THE FLOOR. 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 RESTROOM, AND PLACED 80 INCHES ABOVE THE FLOOR OR 6 INCHES BELOW CEILING,WHICH-EVER IS LOWER.
6. ALL DOORS SHALL BE OPENABLE BY A SINGLE EFFORT. DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO AN OPEN POSITION OF 12 DEGREES SHALL BE 3 SECONDS MINIMUM. THE MAXIMUM FORCE REQUIRED FOR PUSHING OR PULLING OPEN DOORS OTHER THAN FIRE DOORS SHALL NOT EXCEED 5 LBS. FOR ALL SLIDING, FOLDING, AND INTERIOR HINGED DOORS.
7. FLOOR SURFACES SHALL BE STABLE, FIRM, AND SLIP-RESISTANT. CHANGES IN LEVEL BET-WEEN 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 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, MEASURED FROM THE FLOOR TO THE TOP OF THE SEAT. GRAB BARS SHALL BE 36 INCHES LONG MINIMUM MOUNTED ON THE SIDEWALL NEAREST THE WATER CLOSET AND 42 INCHES MINIMUM LONG LOCATED ALONG SIDE OF WATER CLOSET, AND SHALL BE MOUNTED 33 INCHES TO 36 INCHES ABOVE THE FLOOR. IN ADDITION, A VERTICAL GRAB BAR 18 INCHES MINIMUM IN LENGTH SHALL BE MOUNTED ON THE SIDEWALL WITH THE BOTTOM OF THE BAR LOCATED BETWEEN 36 AND 41 INCHES ABOVE THE FLOOR, AND WITH THE CENTER LINE OF THE BAR LOCATED BETWEEN 39 INCHES AND 41 INCHES FROM THE REAR WALL. THE CENTER LINE OF WATER CLOSETS SHALL BE 16 INCHES MINIMUM TO 18 INCHES MAXIMUM FROM SIDE WALL PARTITION. WATER CLOSETS LOCATED IN AMBULATORY ACCESSIBLE COMPARTMENTS SHALL HAVE THE CENTERLINE OF WATER CLOSET 17 INCHES MINIMUM TO 19 INCHES MAXIMUM FROM SIDE WALL OF PARTITION.
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 AND SINKS SHALL BE MOUNTED WITH THE RIM NO HIGHER THAN 34 INCHES ABOVE THE FLOOR. KNEE CLEARANCE OF AT LEAST 27 INCHES HIGH MUST BE PROVIDED WITH A MINIMUM DEPTH OF 8 INCHES BENEATH THE FIXTURE AND 9 INCHES HIGH MINIMUM WITH A MINIMUM DEPTH OF 11 INCHES BENEATH THE FIXTURE. THE KNEE SPACE MUST BE AT LEAST 30 INCHES WIDE.
11. 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.
12. ACCESSIBLE LAVATORIES AND SINKS SHALL HAVE ACCESSIBLE FAUCETS (I.E. LEVER-OPERATED, PUSH TYPE, ELECTRONICALLY CONTROLLED).
13. MIRRORS LOCATED ABOVE LAVATORIES, SINKS OR COUNTERS SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE A MAXIMUM OF 40 INCHES ABOVE THE FLOOR. OTHER MIRRORS IN TOILET ROOMS SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 35 INCHES MAXIMUM ABOVE THE FLOOR.
14. GRAB BARS HAVING A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF 1.25 INCHES MINIMUM AND 2.0 INCHES MAXIMUM. THE SPACE BETWEEN THE GRAB BAR AND THE WALL SHALL BE 1.5 INCHES.
15. A TOWEL DISPENSER SHALL BE LOCATED ADJACENT TO ALL ACCESSIBLE LAVTORIES.
16. DOORS TO ALL ACCESSIBLE SPACES SHALL HAVE ACCESSIBLE HARDWARE (I.E. LEVER - OPERATED, PUSH-TYPE, U-SHAPED) MOUNTED WITH OPERABLE PARTS BETWEEN 34 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FLOOR.
17. TOILET STALL DOORS SHALL BE THE SELF-CLOSING TYPE.

WINDOW & DOOR SPECIFICATIONS

1. DBL. PANE WINDOWS ARE REQUIRED FOR ALL CLIMATE ZONES. SEE THE COMCHECK ENERGY CALCULATIONS FOR THE MAXIMUM ALLOWED U-FACTOR AND SHGC.
2. THE MAXIMUM ALLOWABLE AIR LEAKAGE RATE FOR WINDOWS IS 0.3 CFM PER SQUARE FEET OF WINDOW AREA.
3. THE MAXIMUM ALLOWABLE AIR LEAKAGE RATE FOR EXTERIOR DOORS IS 0.5 CFM PER SQUARE FEET OF DOOR AREA.

NOTE:
NM CABLE SHALL NOT BE USED WHERE INTERIOR FINISH HAS LESS THAN A 15 MIN. FIRE RATING TYPE AC OR OTHER APPROVED WIRING METHODS SHALL BE USED WHEN USING LESS THAN 1/2" GYP. WALL SHEATHING.

ELECTRICAL SCHEDULE 'A'

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1, 3	HVAC	60A(2P)	6-2 #10 GRND.
4, 6	RECEPTACLES	20 A	12-2 NM
2	LIGHTING	15 A	14-2 MC

ELECTRICAL PANEL SIZING:

DESCRIPTION PANEL 'A' KVA

GENERAL LIGHTING
.0035 KW/SF X 700 SF X 1.25= 3.1
20 RECEPTS AT 180VA/1000= 3.6
WATER HEATER 6.5 KW = —
—FAN(S) AT .3 KW X 1.25= —
HVAC 10.3

TOTAL 17 KW
TOTAL/240 X 1000= 72 AMPS
INSTALL 100 AMP PANEL
120/240 V 1ø

ELECTRICAL SCHEDULE 'B'

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1, 3	HVAC	60A(2P)	6-2 #10 GRND.
12, 14	WATER HEATER	30A(12P)	10-2 NM
5	DED. CKT. 1.9 KW 120V.,1ø	20A(1P)	12-2 NM
7	DED. CKT. 1.9 KW 120V.,1ø	20A(1P)	12-2 NM
10	DED. CKT. 1.9 KW 120V.,1ø	20A(1P)	12-2 NM
9, 11	DED. CKT. 5.3 KW 120V.,1ø	30A(12P)	10-2 NM
13, 15	DED. CKT. 9.5 KW 120V.,1ø	50A(12P)	8-2 NM
4, 6, 8	RECEPTACLES	20 A	12-2 NM
2	LIGHTING/FANS	15 A	14-2 MC

ELECTRICAL PANEL SIZING:

DESCRIPTION PANEL 'B' KVA

GENERAL LIGHTING
.0035 KW/SF X 700 SF X 1.25= 3.1
14 RECEPTS AT 180VA/1000= 2.2
WATER HEATER 6.5 KW = 6.5
3 FAN(S) AT .3 KW X 1.25= 1.2
HVAC 10.3
(3) DED. CKT. 1.9 KW x 1.25 = 7.2
DED. CKT. 6.5 KW = 6.5
DED. CKT. 9.5 KW = 9.5

TOTAL 48.5 KW
TOTAL/240 X 1000= 194 AMPS
INSTALL 200 AMP PANEL
120/240 V 1ø

SYMBOLS

—BOOKS ONLY—

- FIRE ALARM PULL STATION
- FIRE ALARM HORN/STROBE
- FIRE ALARM STROBE LIGHT
- JUNCTION BOX (NON POWERED UNLESS CIRCUIT NO. IS SHOWN)
- SMOKE DETECTOR
- DUPLEX RECEPTACLE 120 V.
- SINGLE RECEPTACLE 240 V.
- INCANDESCENT LIGHT WITH 1— 60 W. BULB
- COMPACT FLOURESCENT LIGHT 1—40 W. BULB
- HIGH PRESSURE SODIUM LIGHT
- COMPACT FLUOR. WALL PACK PHOTOCELL
- VENT FAN
- COMB. VENT FAN & LIGHT
- SUPPLY AIR REGISTER
- RETURN AIR REGISTER
- FLOOD LIGHT 2-1500 BULBS
- THERMOSTAT
- FLUORESCENT FIXTURE WITH 2—32W TUBES
- EXIT/EMERGENCY COMBO W/BATTERY BACKUP
- EXIT/EMERGENCY COMBO W/REMOTE HEAD W/BATTERY BACKUP
- EXIT/EMERGENCY COMBO W/BATTERY BACKUP
- EXIT SIGN W/BATTERY BACKUP
- EMERGENCY LIGHT WITH BATTERY BACKUP
- TELEPHONE JACK
- SWITCH & 3 WAY SWITCH
- OCCUPANCY SENSOR SWITCH
- FIRE EXTINGUISHER

ATTENTION LOCAL INSPECTIONS DEPARTMENT

SITE INSTALLED ITEMS

THE FOLLOWING ITEMS HAVE NOT BEEN COMPLETED BY THE MANUFACTURER, HAVE NOT BEEN INSPECTED BY RADCO AND ARE NOT CERTIFIED BY THE STATE 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 DETERMINED 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. BUILDING DRAINS, CLEANOUTS, DRINKING FOUNTAIN, AND HOOK-UP TO PLUMBING SYSTEM.
5. ELECTRICAL SERVICE HOOK-UP (INCLUDING FEEDERS) TO THE BUILDING.
6. THE MAIN ELECTRICAL PANEL AND SUB-FEEDERS
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 INSPECTION
10. GLAZED OPENING PROTECTION (SEE GENERAL NOTE NO. 8)
11. DOORS AND HEADERS CROSSING MATELINE

BUILDING DESIGN PARAMETERS

1.	USE/OCCUPANCY:	BUSINESS
2.	CONSTRUCTION TYPE:	VB
3.	SPRINKLER SYSTEM:	NO
4.	BUILDING AREA:	1410 S.F.
5.	BUILDING HEIGHT:	≤ 15 FEET
6.	NUMBER OF STORIES:	1
7.	NUMBER OF MODULES:	2
8.	OCCUPANT LOAD 1/R BASED ON 100 SF/PERSON	
9.	EXTERIOR WALL FIRE RATING:	NOT RATED

10. THIS BUILDING MUST BE INSTALLED WITH THE FIRE SEPARATION DISTANCES REQUIRED BY IBC TABLE 602 AND SECTION 704.3
11. ENGERGY CODE COMPLIANCE: SEE ATTACHED ENERGY CALCULATIONS.
12. MANUFACTURERS DATA PLATE, STATE LABELS AND RADCO LABELS ARE TO BE LOCATED ADJACENT TO ELECTRICAL PANEL.

APPROVED **RADCO** APPROVED
Mar 20, 2013

MECHANICAL NOTES:

1. ALL SUPPLY AIR REGISTERS SHALL BE 10 INCHES x 10 INCHES ADJUSTABLE WITH 8 INCHES x 16 INCHES (INSIDE) OVERHEAD FIBERGLASS DUCT, UNLESS OTHERWISE SPECIFIED. DUCTS IN UNCONDITIONED SPACES SHALL HAVE R—4.2 MINIMUM INSULATION EXCEPT DUCTS EXPOSED TO VENTILATED ATTICS AND CRAWL SPACES SHALL HAVE R—6.5 INSULATION.
2. INTERIOR DOORS SHALL BE UNDERCUT 1.5 INCHES ABOVE FINISHED FLOOR FOR AIR RETURN AND/OR AS NOTED ON FLOOR PLAN.
3. VENT FANS SHALL BE DUCTED TO THE EXTERIOR AND TERMINATE AT AN APPROVED VENT CAP.
4. HVAC EQUIPMENT SHALL BE EQUIPPED WITH OUTSIDE FRESH AIR INTAKES PROVIDING 20 CFM FOR EACH OCCUPANT.
5. EXHAUST FANS IN TOILET ROOMS SHALL PROVIDE A MINIMUM OF 75 CFM PER WATER CLOSET, URINAL AND SHALL VENT TO EXTERIOR OF BUILDING.
6. CLOTHES DRYER EXHAUST MUST TERMINATE TO THE EXTERIOR OF THE BUILDING AND SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 504 OF THE 2006 IMC

CODE SUMMARY:

STATE	BUILDING	ELECTRICAL	MECHANICAL	PLUMBING	ACCESSIBILITY	ENERGY CODE
OK.	2006 IBC	2008 NEC	2006 IMC	2006 IPC	ADAGG	2006 IECC

CONSULTING ENGINEER | JAMES BRADLEY, P.E. — 212 FOX TRAIL — PARKESBURG, PA. 19365 — (610) 857—2458

Mar 20, 2013
LICENSED PROFESSIONAL ENGINEER
James E. Bradley
9480
OKLAHOMA

DIAMOND BUILDERS INC.
P.O. BOX 2200 440 THOMPSON DR.
DOUGLASS, GEORGIA 31534 (912) 384—7080

DATE: 3-5-13	THIRD PARTY: RADCO 5436 CRENSHAW ST. TAMPA, FLORIDA 33634 813-243-6370	
SCALE : AS NOTED		
CODES: SEE NOTES	REVISIONS:	BY:
STATES: OK.		J.B.
DBI5499 A/B 24 x 60 BUSINESS		SHEET
COVER SHEET	DESTINATION: DUNCAN	1 OF 6