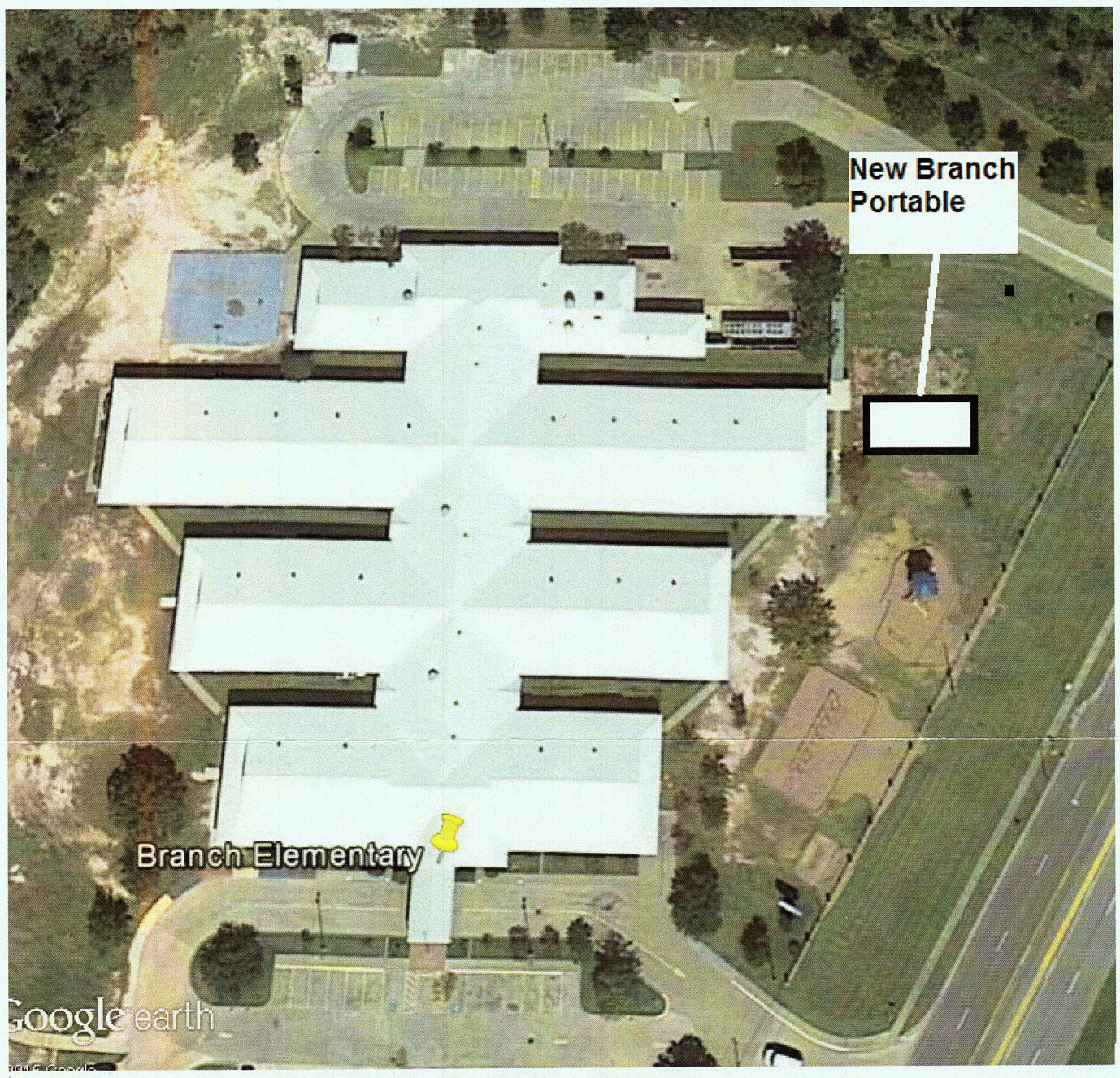
Development
Services
JAN 20 2016
RECEIVED

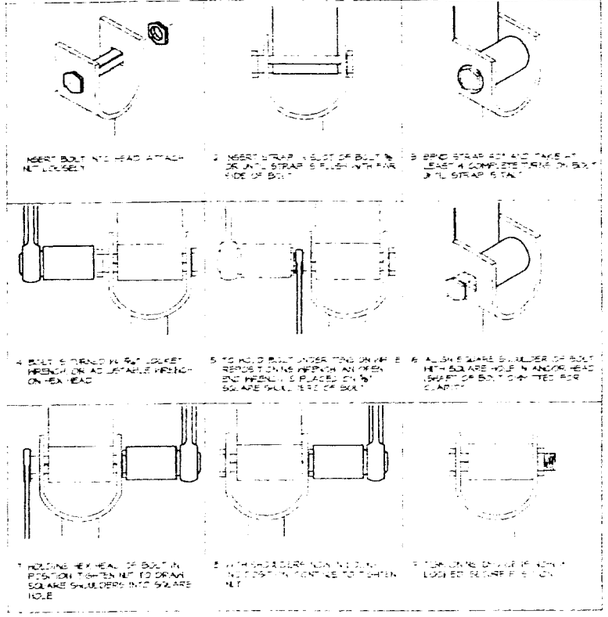


1 - No concrete pouring require for this project.
2 - BISD shall use all means necessary to prevent the occurance of windblown litter from project site.
3 - BISD shall be responsible for the removal and proper disposal of solid waste from the project.
4 - Electrical service will be fed from main building.
5 - Portable building size: 30' wide x 66' long x 14' high.
6 - Ramps, landings and steps shall be new and ADA compliant.
7 - No permanent foundation (wood frame).
8 - Restroom distance 70'.
9 - Lay of hose 22'.

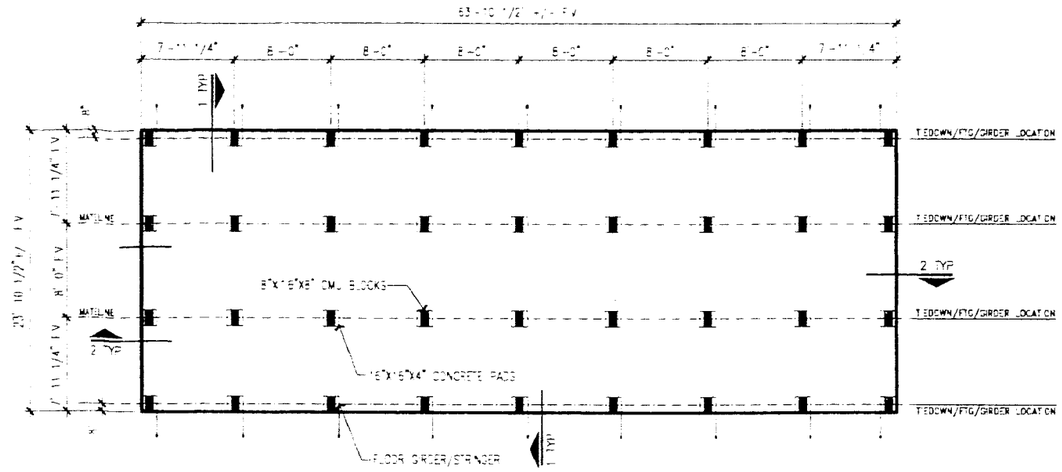
PROPER TENSIONING OF STRAP TO ANCHOR HEAD

NOTE: THE TENSIONING BOLT CAN BE INSERTED IN THE HEAD FROM EITHER SIDE

NOTICE: IN AREAS OF SEVERE COLD WEATHER WHERE POSSIBLE DAMAGE COULD FROM FROST HEAVE, THE OWNER SHOULD RELEASE SOME OF THE TENSION FROM THE VERTICAL TIE IN EACH TIE-DOWN.



1. INSERT BOLT INTO HEAD ATTACH NUT LOOSELY
2. INSERT STRAP UNDER BOLT OR BOLT IN OR UNDER STRAP SO FLUSH WITH FAR SIDE OF BOLT
3. BEND STRAP 90° AND MAKE AT LEAST A COMPLETE TURN ON BOLT UNTIL STRAP IS TAUT
4. BEND STRAP WITH SQUARE BEND WRENCH OR AS DETAILED WRENCH ON HEX HEAD
5. TO HOLD BOLT WHILE TENSIONING WHEN REQUIRED TURNS APPEAR AN OPEN END WRENCH IS PLACED ON THE SQUARE FULL LENGTH OF BOLT
6. ALIGN SQUARE SHOULDER OF BOLT WITH SQUARE HOLE IN ANCHOR HEAD (SHAFT OR BOLT IS NOT TIED FOR CLARITY)
7. HOLDING HEX HEAD OF BOLT IN POSITION TIGHTEN NUT TO DRAW SQUARE SHOULDERS INTO SQUARE HOLE
8. WITH HOLD ORDER NOW NUT IS NOT TOO TIGHT CONTINUE TO TIGHTEN NUT
9. FOR UNITS SHOULD BE LOOSENED SLIGHTLY



A | PORTABLE BUILDINGS FOUNDATION + TIE-DOWN ANCHOR PLAN

SCALE 3/16"=1'-0"

DETAILS

SCALE N.T.S

GENERAL NOTES

CODES, DRAWINGS AND SPECIFICATIONS

BUILDING CODE: IBC, 2009 EDITION

ALL CODES AND SPECIFICATIONS LISTED ABOVE SHALL INCLUDE ALL AMENDMENTS AND ADDENDA IN FORCE AT THE DATE OF THE CONTRACT DOCUMENTS

WHERE CONFLICTS EXIST BETWEEN THE VARIOUS PUBLICATIONS AS SPECIFIED HEREIN, THE MORE STRICTER REQUIREMENTS SHALL GOVERN UNLESS NOTED OTHERWISE. WHERE CONFLICTS EXIST BETWEEN THE VARIOUS PARTS OF THE STRUCTURAL CONTRACT DOCUMENTS (STRUCTURAL DOCUMENTS, SPECIFICATIONS) AS SPECIFIED HEREIN, THE MORE STRICTER REQUIREMENTS SHALL GOVERN.

STRUCTURAL DOCUMENTS ARE MEANT TO REPRESENT THE STRUCTURE IN ITS FINAL, CONSTRUCTED CONFIGURATION. THE GENERAL CONTRACTOR IS FULLY RESPONSIBLE FOR THE MEANS AND METHODS USED TO BUILD THE STRUCTURE. THE GENERAL CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AND WITH ALL JOB SAFETY RELATED REGULATIONS AT THE JOBSITE. THE STRUCTURAL ENGINEER IS NOT QUALIFIED TO COMMENT ON THE CONSTRUCTION MEANS AND METHODS NOR ON JOB SITE SAFETY.

TYPICAL DETAILS

TYPICAL DETAILS SHOWN ON THE DRAWINGS SHALL APPLY TO ALL SIMILAR LIKE CONDITIONS OCCURRING ON THE PROJECT WHETHER OR NOT THEY ARE KEYED IN AT EACH PARTICULAR LOCATION.

DESIGN CRITERIA

LIVE LOADS

FLOORS:
BALCONIES/EXTERIOR WALKWAYS — 100 PSF

STAIRS AND EXITS — 100 PSF + 300# CONCENTRATED LOAD AT TREAD MIDSPAN

GUARDRAILS AND HANDRAILS — 50 PLF OR 200# APPLIED AT TOP RAIL IN ANY DIRECTION

WIND LOADS

VELOCITY — 90 MPH THREE SECOND GUST
EXPOSURE — B
IMPORTANCE — I = 1.15

DESIGN SOIL PRESSURES

TOTAL LOAD — 1500 PSF

ARCHITECTURAL BARRIER ACT

ITEM	REQUIRED CAPACITY
GRAB BAR	250 POUNDS ANY DIRECTION
TUB OR SHOWER SEAT	250 POUNDS ANY DIRECTION
FASTENERS & MOUNTING DEVICES	250 POUNDS ANY DIRECTION

TIMBER NOTES:

1. TIMBER SHALL CONFORM TO NATIONAL DESIGN SPECIFICATION FOR STRESS GRADE LUMBER AND ITS FASTENINGS, NATIONAL FOREST PRODUCTS ASSOCIATES LATEST EDITION.
2. MATERIALS FOR FRAMING LUMBER SUBJECT TO BENDING STRESSES (SUCH AS BEAMS, JOISTS RAFTERS, HEADERS, AND OTHER HORIZONTAL MEMBERS SHALL BE SOUTHERN PINE NO. 2 KD (MC 19) CONSTRUCTION MINIMUM, UNLESS A HIGHER GRADE IS SHOWN ON THE DRAWINGS
3. MATERIALS FOR STUD WALLS AND COLUMNS SHALL BE SOUTHERN PINE NO. 3, CONSTRUCTION OR STUD GRADE TIMBER OR EQUIVALENT DOUGLAS FIR-LARCH UNLESS OTHERWISE SHOWN ON THE DRAWINGS
4. MATERIALS MUST BE GRADE MARKED
5. BRIDGING BETWEEN JOISTS AND RAFTERS SHALL BE 1x4 WOOD OR 16 GAGE HOT-DIP GALVANIZED STEEL CROSS BRIDGING OR 2x SOLID BRIDGING AT ALL BEARING LOCATIONS AND AT 8 FOOT MAXIMUM INTERVALS
6. BEAMS MADE UP OF MULTIPLE 2x PIECES SHALL NOT BE SPLICED EXCEPT OVER SUPPORTS ALL MULTI-PLY MEMBER BEAMS SHALL BE ATTACHED TOGETHER BY NAILING WITH 10d NAILS AT 6" O.C. TOP AND BOTTOM FOR EACH PLY. FLITCH BEAMS WITH STEEL PLATES SHALL BE BOLTED TOGETHER WITH 1/2" DIAMETER HOT-DIP GALVANIZED A307 THRU BOLTS AT 1'-0" O.C. STAGGERED FROM TOP TO BOTTOM
7. HOLES NO GREATER THAN 1/3 THE DEPTH OF THE JOIST MAY BE CUT HORIZONTALLY THRU JOISTS AND SHALL NOT BE WITHIN 2 INCHES OF THE TOP OR BOTTOM OF THE JOIST

TIMBER NOTES CONT:

8. PLANS AND DETAILS FOR FRAMING ARE A SCHEMATIC REPRESENTATION OF THE FRAMING AT VARIOUS LOCATIONS AND CONDITIONS ON THIS PROJECT. THE CONTRACTOR SHALL NOT SCALE OR COUNT FRAMING MEMBERS SHOWN AS A SUBSTITUTE FOR SHOP DRAWINGS AND AN ACCURATE QUANTITY TAKEOFF. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL FRAMING NECESSARY TO COMPLETELY FRAME THE PROJECT AND PROVIDE FOR ALL CONDITIONS SHOWN ON THE ARCHITECTURAL DRAWINGS
9. JOIST AND RAFTER HANGERS, TIES, HOLDDOWNS AND OTHER PRE-ENGINEERED CONNECTORS SHALL BE "SIMPSON STRONG-TIE" OR APPROVED EQUAL. SIZE AND USAGE SHALL BE AS SHOWN ON THE DRAWINGS, SPECIFIED IN THESE NOTES AND AS RECOMMENDED BY THE MANUFACTURER. ALL CONNECTORS SHALL BE FIRST HOT-DIP GALVANIZED COATED AFTER FABRICATION OR STAINLESS STEEL.
10. ALL TIMBER OUTSIDE THE BUILDING ENVELOPE SHALL BE PRESSURE TREATED. ALL CONNECTIONS OUTSIDE THE BUILDING ENVELOPE SHALL BE MADE WITH HOT-DIP GALVANIZED BOLTS OR NAILS.

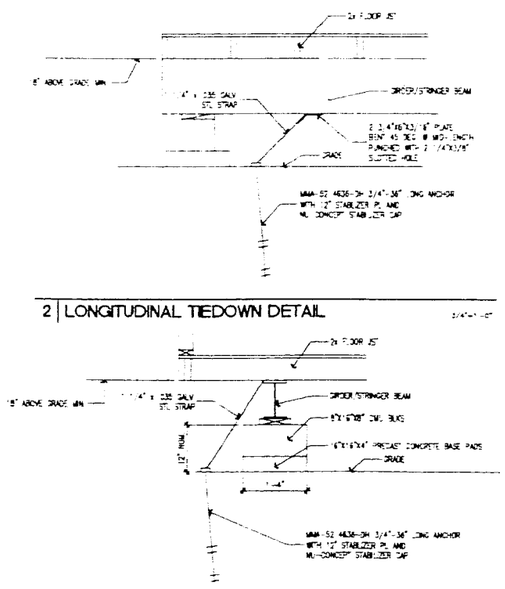
SPECIAL INSPECTIONS

SPECIAL INSPECTION WORK AND THE FINAL LETTER OF COMPLIANCE HAVE NOT BEEN INCLUDED IN THE STRUCTURAL ENGINEERS SCOPE OF SERVICES. THE OWNER SHALL BE RESPONSIBLE FOR OBTAINING THE SERVICES OF THE SPECIAL INSPECTOR AND THE TESTING LABORATORY. SPECIAL INSPECTIONS CAN BE PROVIDED BY AN INDEPENDENT SPECIAL INSPECTOR WHO IS APPROVED BY THE BUILDING AUTHORITY OR THE ENGINEER OF RECORD. THE SPECIAL INSPECTION WORK DOES NOT INCLUDE THE TESTING LABORATORY SERVICES AS CALLED FOR ON THE DRAWINGS. ARRANGEMENTS FOR SPECIAL INSPECTIONS SHOULD BE MADE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE OWNER IF SPECIAL INSPECTIONS ARE REQUIRED ON THE APPROVED PERMIT DRAWINGS AND FOR NOTIFYING THE TESTING LABORATORY AND SPECIAL INSPECTOR IN A TIMELY MANNER BEFORE CONSTRUCTION OPERATIONS CONTINUE. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK REQUIRING INSPECTIONS WITHOUT THE TESTING LABORATORY'S OR SPECIAL INSPECTOR'S PRESENCE. THE STRUCTURAL ENGINEER WILL NOT PROVIDE A FINAL LETTER OF COMPLIANCE AFTER THE WORK IS COMPLETE UNLESS HE HAS REVIEWED ALL SPECIAL INSPECTIONS/TESTING LABORATORY TEST RESULTS

PORTABLE BUILDING TIE-DOWN ANCHOR NOTES

1. FOUNDATION DESIGN CONDITIONS
   - ROOF LIVE LOAD — 20 PSF
   - ROOF DEAD LOAD — 10 PSF
   - FLOOR LIVE LOAD — 40 PSF
   - FLOOR DEAD LOAD — 15 PSF
   - WIND SPEED — 90 MPH 3-SEC GUST
2. INSTALL HARD WOOD SHIMS AS REQ'D A MINIMUM OF 18" ABOVE GRADE. USE CCA PRESSURE TREATED MATERIAL FOR ALL WOOD SHIMS
3. PROVIDE ACCESSIBLE UNDER-FLOOR AREAS WITH AN 18" x 24" ACCESS DOOR
4. PROVIDE FOUNDATION SKIRTING WITH VENTILATION OPENINGS MEETING THE FOLLOWING REQUIREMENTS: IBC SECTION 1202.3
5. USE HOLLOW LOAD-BEARING CONCRETE MASONRY RATED FOR A MINIMUM COMPRESSIVE STRENGTH OF 1500 PSI ON THE GROSS AREA, OR USE SOLID LOAD-BEARING CONCRETE MASONRY RATED FOR A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI ON THE GROSS AREA
6. DO NOT STACK BLOCK FOUNDATION PIERS HIGHER THAN THREE TIMES THE PIERS LEAST DIMENSION
7. PRESUMED SOIL PROPERTIES ARE A MINIMUM OF 1500 PSF LOAD BEARING CAPACITY
8. INSTALL FOOTINGS ON UNDISTURBED COMPACTED SOILS OF UNIFORM DENSITY AND THICKNESS
9. FOUNDATION SUB-CONTRACTOR SHALL DETERMINE FINAL ELEVATION OF FOOTINGS. A TOLERANCE OF +/- 4" VARIATION IS PERMITTED ACROSS ALL FOUNDATION ELEMENTS INTENDED TO TERMINATE AT THE SAME ELEVATION
10. TIE DOWNS SHALL BE INSTALLED APPROXIMATELY 8'-10" O.C. OR AS SHOWN ON PLANS
11. ANCHOR SPECIFIED IS SHOWN ON THE DETAILS, AND IS MANUFACTURED BY MINUTE MAN ANCHORS, INC. (1-800-692-0256). INSTALLATIONS SHALL BE PER MANUFACTURERS REQUIREMENTS AND SHALL BE REVIEWED BY LOCAL AUTHORITIES
12. ANCHOR ASSEMBLY, STRAP, AND ASSOCIATED HARDWARE SHALL BE CORROSION RESISTANT

2 | LONGITUDINAL TIEDOWN DETAIL



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