



NORTH (magnetic)

Charles Washington Hall

RENOVATIONS

Corner of George & Washington Streets
Charles Town, W. Va.

For the City of Charles Town City of Ranson

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220 WEST KING • MARTINSBURG, WEST VIRGINIA • 25401

Issue/Revision Seal

Drawing Title

GENERAL NOTES

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S1.1

GENERAL NOTES

- ALL STRUCTURAL WORK SHALL BE COORDINATED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND SHALL CONFORM TO THE PROJECT SPECIFICATIONS, INCLUDING THE INTERNATIONAL EXISTING BUILDING CODE (IEBC), 2009, AS MODIFIED BY THE STATE OF WEST VIRGINIA.
- CONTRACTOR SHALL PROVIDE TEMPORARY SHORING, BRACING, SHEETING AND MAKE SAFE ALL FLOORS, ROOFS, WALLS AND ADJACENT PROPERTY AS PROJECT CONDITIONS REQUIRE. SHORING AND SHEETING SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE PROJECT JURISDICTION HIRED BY THE CONTRACTOR WHO SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR THE OWNER'S REVIEW.
- DIMENSIONS AND ELEVATIONS OF EXISTING CONSTRUCTION GIVEN IN STRUCTURAL DRAWINGS ARE BASED ON INFORMATION CONTAINED IN VARIOUS ORIGINAL DESIGN AND CONSTRUCTION DOCUMENTS PROVIDED BY THE OWNER, AND LIMITED FIELD OBSERVATIONS AND MEASUREMENTS. THE CONTRACTOR SHALL VERIFY ALL INFORMATION PERTAINING TO EXISTING CONDITIONS BY ACTUAL MEASUREMENT AND OBSERVATION AT THE SITE. ALL DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND THOSE SHOWN IN THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ENGINEER OF RECORD FOR HIS EVALUATION BEFORE THE AFFECTED CONSTRUCTION IS PUT IN PLACE.
- THE CONTRACT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY. THESE NOTES HIGHLIGHT RATHER THAN REPLACE THE SPECIFICATIONS CONTAINED IN THE PROJECT MANUAL. PLEASE NOTIFY THE ENGINEER OF ANY CONFLICTS. REFER TO THE SPECIFICATION FOR WORK NOT SHOWN ON THE DRAWINGS.

FOUNDATIONS

- BUILDING FOUNDATIONS SHALL BEAR ON UNDISTURBED SOIL HAVING MINIMUM BEARING CAPACITY OF 1500 PSF AS SPECIFIED BY IBC PRESUMPTIVE LOAD-BEARING VALUES OF SOILS (SECTION 1806.2). THE GEOTECHNICAL CONSULTANT (HIRED BY OWNER) SHALL CONFIRM ADEQUACY OF BEARING STRATUM IN FIELD PRIOR TO PLACING CONCRETE. ADJUST BOTTOM OF FOOTING ELEVATIONS AS REQUIRED.
- DO NOT PLACE BACKFILL AGAINST BASEMENT WALLS UNTIL ALL FLOORS BRACING THESE WALLS ARE IN PLACE AND HAVE ATTAINED THEIR 28 DAY STRENGTH.
- ALL EXTERIOR FOOTINGS SHALL BE PLACED A MINIMUM OF 2'-6" BELOW FINAL GRADE AS SPECIFIED BY JEFFERSON COUNTY, WEST VIRGINIA.
- CONCRETE SHALL BE POURED IN DRY EXCAVATIONS. CONTRACTOR SHALL NOTE SOIL AND WATER CONDITIONS AS SHOWN BY BORINGS AND DEPTHS OF FOOTING AS SHOWN ON FOUNDATION PLANS.

CONCRETE

- ALL CONCRETE WORK SHALL CONFORM TO THE ACI FOLLOWING GOVERNING STANDARDS.
 - AMERICAN CONCRETE INSTITUTE (ACI) "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (ACI 318), LATEST EDITION.
 - ACI "MANUAL OF CONCRETE PRACTICE" LATEST EDITION
 - CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICE" LATEST EDITION
- ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS, UNLESS OTHERWISE NOTED.
- REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60 OR A775 EPOXY COATED WHEN CALLED OUT ON PLAN. REINFORCING STEEL SHALL BE DETAILED ACCORDING TO THE ACI "DETAILS AND DETAILING OF REINFORCEMENT", (ACI 315), LATEST EDITION.
- WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185, WITH A MINIMUM YIELD STRENGTH OF 65,000 PSI.
- PROVIDE MINIMUM SHRINKAGE AND TEMPERATURE REINFORCEMENT, AS REQUIRED BY ACI 318, IN ALL SLABS AND WALLS WHERE REINFORCEMENT IS NOT INDICATED ON DRAWINGS.
- COORDINATE SIZE AND LOCATION OF ALL OPENINGS AND PIPE SLEEVES WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. MINIMUM CONCRETE BETWEEN SLEEVES SHALL BE 6". CORE DRILLING OF WALLS AND SLABS SHALL NOT BE PERMITTED.
- ALL GROUT SHALL BE NONSHRINK WITH A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI.
- PROVIDE CLEARANCE FROM FACE OF CONCRETE TO REINFORCEMENT AS FOLLOWS:
 - SLABS 3/4"
 - FOOTINGS: 3"
 - EXTERIOR WALLS: 2" FOR #6 OR LARGER, 1 1/2" FOR #5 OF SMALLER
- SHOP DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL. NO CONCRETE WORK SHALL COMMENCE WITHOUT APPROVED SHOP DRAWINGS.
- CLEAN AND ROUGHEN TO 1/4" AMPLITUDE ALL EXISTING CONCRETE SURFACES TO RECEIVE NEW CONCRETE PRIOR TO PLACEMENT.
- SEE OTHER DRAWINGS IN THIS PROJECT FOR SIZE AND LOCATIONS OF EQUIPMENT PADS, INSERT AND EMBED ITEMS.
- REINFORCING DOWELS, WATERSTOPS AND OTHER EMBED ITEMS SHALL BE INSTALLED AND SECURED PRIOR TO CONCRETE PLACEMENT. "WET-SETTING" OF EMBEDDED ITEMS IS NOT PERMITTED.

CONCRETE BLOCK

- ALL CONCRETE BLOCK WORK SHALL CONFORM TO THE "NATIONAL CONCRETE MASONRY ASSOCIATION SPECIFICATIONS," LATEST EDITION AND "ACI 530-BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES", LATEST EDITION.
- ALL MORTAR SHALL BE ASTM C270, TYPE S.
- ALL GROUT FOR FILLING CELLS SHALL BE ASTM C 476 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI BUT NOT LESS THAN THE COMPRESSIVE STRENGTH OF THE MASONRY ASSEMBLY, F'M. WHERE GROUT CELLS DO NOT EXCEED 4" IN DIAMETER FINE GROUT SHALL BE USED.
- ALL REINFORCING BARS SHALL BE STAINLESS STEEL GRADE 60 CONFORMING TO ASTM A955/A955M - 12e1.
- ALL CONCRETE BLOCK BELOW GRADE SHALL BE FILLED SOLID WITH GROUT.
- CONCRETE BLOCK BELOW BEAM OR TRUSS BEARING POINTS SHALL BE FILLED SOLID FOR A MINIMUM OF TWO COURSES IN DEPTH AND A MINIMUM OF 32" IN WIDTH, U.O.N.
- UNLESS NOTED OTHERWISE ALL MASONRY WALLS SHALL BE REINFORCED WITH #4@48" O/C VERTICAL. GROUT ALL REINFORCED CELLS SOLID. PROVIDE DOWELS TO MATCH VERTICAL REINFORCING AT FOUNDATION.

MASONRY

- MASONRY REPAIRS SHALL BE COMPLETED USING BRICK UNITS AND MORTAR THAT HAVE MATERIAL PROPERTIES CONSISTENT WITH EXISTING MASONRY. SAMPLES OF EXISTING MORTAR SHALL BE TAKEN AND TESTED FOR COMPOSITION BY THE CONTRACTOR'S TESTING AGENCY. THE DESIGN OF THE MORTAR MIX SHALL BE BASED ON THIS EVALUATION.
- REPAIR MASONRY IF MORTAR CAN BE EASILY REMOVED WITH HAND TOOLS BY SCRAPPING. REMOVE SOFT OR CRACKED MORTAR TO SOUND MATERIAL. LIMIT DEPTH OF REMOVAL TO A MAXIMUM OF 2". ALSO REPOINT AREAS WHERE MORTAR DOES NOT EXIST. FOR BRICKS LOOSE ENOUGH TO BE REMOVED BY HAND, REMOVE, CLEAN, AND REINSTALL IN A FULL BED OF MORTAR.
- INFILL EXISTING UNUSED OR NEWLY ABANDONED PENETRATIONS, JOIST AND BEAM POCKETS, UTILITY CHASES, AND ELECTRICAL BOX RECESSES WITH SOLID MASONRY OR GROUT.
- AT NEW WALL OPENINGS WHERE INNER WYTHE MORTAR DOES NOT EXIST OR BRICKS ARE LOOSE, REBUILD MASONRY BELOW LINTEL BEARING FOR THE FULL HEIGHT OF THE EXPOSED SECTION. LIMIT DEPTH OF REPAIR TO 4"; HOWEVER, FILL ANY VISIBLE VOIDS WITH GROUT BEYOND THAT DEPTH.
- PROVIDE EXISTING FOUNDATION WALL REBUILD ALLOWANCE, AS SHOWN ON DRAWINGS, DUE TO EXISTING CONDITIONS. EXISTING LOOSE STONE/RUBBLE FOUNDATION WALLS TO BE EXPOSED AS A PART OF WORK SHALL BE TREATED BY PRESSURE INJECTED GROUT AT THE DIRECTION OF THE ENGINEER OF RECORD TO MAINTAIN STABILITY.
- ALL REINFORCING BARS SHALL BE STAINLESS STEEL GRADE 60 CONFORMING TO ASTM A955/A955M -12e1.

STRUCTURAL STEEL

- ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE FOLLOWING GOVERNING STANDARDS:
 - AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS," LATEST EDITION.
 - THE AMERICAN WELDING SOCIETY (AWS D1.1) "CODE FOR WELDING IN BUILDING CONSTRUCTION," LATEST EDITION.
- ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:
 - WIDE FLANGE BEAMS, COLUMNS AND STRUCTURAL TEES: ASTM A992
 - HOLLOW STRUCTURAL SECTIONS: ASTM A500, GRADE B
 - CHANNELS, ANGLES AND PLATES: ASTM A36 UNLESS OTHERWISE NOTED.
 - BOLTED CONNECTIONS OF BEAMS/GIRDERS ARE TO BE DESIGNED AS FOLLOWS:
 - STANDARD BEAM TO BEAM/GRIDER: A325 OR A490 BEARING TYPE BOLTS (3/4" DIAMETER MINIMUM).
 - BEAM/GRIDER TO COLUMN CONNECTIONS: A325-SC OR A490-SC TYPE BOLTS (3/4" DIAMETER MINIMUM).
 - ANCHOR BOLTS: ASTM F1554, GRADE 36.
 - STRUCTURAL STEEL NOTED TO BE STAINLESS STEEL SHALL BE ASTM A276-97 STAINLESS STEEL GRADE 304.
 - ALL STAINLESS STEEL BOLTS SHALL CONFORM TO ASTM F593.95 ALLOY 304.
 - ALL STAINLESS STEEL NUTS SHALL CONFORM TO ASTM F594-91 ALLOY 304.
- STEEL CONNECTIONS SHALL BE STANDARD AISC FRAMED BEAM CONNECTIONS.
 - PROVIDE CONNECTIONS BASED ON REACTION AS DETERMINED FROM AISC UNIFORM LOAD TABLE. (UNLESS OTHERWISE NOTED ON PLANS.)
 - REINFORCING IS TO BE PROVIDED AT CONNECTIONS WHERE CUTS REDUCE THE SHEAR OR MOMENT CAPACITY BELOW THAT REQUIRED TO SUSTAIN THE REACTION. FLANGES AND WEB ARE TO BE REINFORCED WHERE THE LOCAL CAPACITY TO SUSTAIN CONNECTION LOAD IS INADEQUATE.
 - CONNECTIONS SHALL BE DESIGNED FOR SHEAR AND ECCENTRICITY, CONSIDERING THAT THE CONNECTION IS AN EXTENSION OF THE BEAM AND GIRDERS.
- MINIMUM WELD SIZE IS 1/4" FILLET UNLESS NOTED OTHERWISE.
- ALL BEAMS EXCEPT CANTILEVER BEAMS SHALL BE FABRICATED AND INSTALLED WITH NATURAL CAMBER UP. CANTILEVER BEAMS SHALL BE FABRICATED AND INSTALLED SO THAT NATURAL CAMBER RAISES CANTILEVER END.
- FIELD CUTTING OR BURNING OF STEEL IS PROHIBITED EXCEPT WITH THE EXPRESSED WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
- WELDING SHALL BE PERFORMED BY CERTIFIED LICENSED, AWS-QUALIFIED WELDERS. ELECTRODES SHALL BE AWS 5.1, CLASS E70XX (USE LOW HYDROGEN ELECTRODES FOR A572, GRADE 50 STEEL), WELDING ELECTRODES FOR ASTM A276-97 STAINLESS STEEL, GRADE 304, SHALL CONFORM TO AWS A5.4 FOR SHIELDED METAL ARC WELDING, ELECTRODE CLASS E304; OR AWS A5.9 FOR GAS METAL ARC WELDING, ELECTRODE CLASS ER304, F1=70 ksi.
- SHOP PAINT EXTERIOR EXPOSED STEEL MEMBERS, STEEL MEMBERS NOT ENCASED IN CONCRETE OR SPRAY FIREPROOFED, AND ALL STEEL MEMBERS AT THE EXTERIOR WALL WITH TNE MEC #10-99. FIELD PAINT ALL EXTERIOR EXPOSED MEMBERS WITH TNE MEC 530 OMNITHANE OR APPROVED EQUAL.
- HOT DIP GALVANIZING SHALL CONFORM TO ASTM A123, REPAIR SCRATCHES OR ABRADED GALVANIZED SURFACE WITH ZINC RICH PAINT. ALL EXTERIOR EXPOSED STEEL AND STEEL SUPPORTING EXTERIOR SHALL BE HOT DIPPED GALVANIZED.
- LINTELS SHALL BE INSTALLED OVER ALL OPENINGS IN MASONRY WALLS AS FOLLOWS:

MASONRY OPENING	MINIMUM LINTEL
4'-0" OR LESS	L 4" x 3 1/2" x 5/8"
4'-1" TO 7'-0"	L 6" x 3 1/2" x 5/8"

 - 3 1/2" LEGS ARE HORIZONTAL.
 - PROVIDE ONE ANGLE FOR EACH 4" OF WALL THICKNESS.
 - PROVIDE L 5" x 5" x 5/8" ANGLES FOR 6" THICK WALLS AND PARTITIONS WITH OPENINGS UP TO 6'-0".
 - PROVIDE MINIMUM 6" BEARING AT EACH END.
 - LINTELS OVER 6'-0" SHALL BE FIREPROOFED.
- SHOP AND ERECTION DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL. NO FABRICATION OF STEEL SHALL COMMENCE WITHOUT APPROVED SHOP DRAWINGS.
- PROVIDE MECHANICALLY GALVANIZED BOLTS FOR EXTERIOR APPLICATIONS.

POST INSTALLED ADHESIVE AND MECHANICAL ANCHORS

- POST INSTALLED ANCHORAGE SHALL BE INSTALLED PER MANUFACTURER TECHNICAL DATA TO INTACT BASE MATERIAL. NOTIFY ENGINEER OF RECORD PRIOR TO INSTALLATION IF BASE MATERIAL CONDITION DEVIATES FROM STRUCTURAL DRAWINGS OR MANUFACTURER TECHNICAL DATA.
- MANUFACTURER DATA FOR ALTERNATE ANCHORAGE PROPOSED BY CONTRACTOR SHALL BE SUBMITTED TO ENGINEER OF RECORD FOR REVIEW AND APPROVAL. SUBMITTAL SHALL INCLUDE THE ICC EVALUATION SERVICE REPORT WITH ICC TESTED CAPACITY MEETING OR EXCEEDING CAPACITY OF ANCHORAGE SPECIFIED IN CONTRACT DOCUMENTS.
- UNLESS OTHERWISE INDICATED, POST INSTALLED ANCHORAGE SHALL BE ADHESIVE TYPE HILTI HIT-HY150 INTO CONCRETE OR STONE BASE MATERIAL OR HY-70 INTO BRICK MASONRY BASE MATERIAL.

WOOD STRUCTURAL PANEL SHEATHING

- PROVIDE STRUCTURAL I PLYWOOD SHEATHING WITH BOND CLASSIFICATIONS APPROPRIATE TO THE END USE: "EXTERIOR" (PERMANENT EXPOSURE), OR "EXPOSURE I" (CONSTRUCTION EXPOSURE ONLY)
- FLOOR SHEATHING: NOM. 3/4" THICK T&G PLYWOOD (48/24 SPAN RATING), APA STURD-I-FLOOR, OR ADVANTECH SUBFLOOR.
- USE PLY CLIPS OR OTHER EDGE SUPPORT AS REQUIRED FOR PLYWOOD SHEATHING.
- LEAVE 1/8" SPACE AT ALL PLYWOOD PANEL END JOINTS AND 1/8" SPACE AT ALL PANEL EDGE JOINTS.
- ALL FLOOR SHEATHING SHALL BE GLUED AND SCREWED TO FLOOR JOISTS USING AN APA APPROVED ADHESIVE AND #8 SCREWS @ 6" O/C. AT EACH SHEET PERIMETER AND 12" O/C. ELSEWHERE, UNLESS NOTED OTHERWISE.

ENGINEERED WOOD PRODUCTS

- MICRO-LAM BEAMS: PROVIDE ENGINEERED BEAMS, SIZES AS SHOWN, MICROLAM LVL OR PARALLAM PSL AS MANUFACTURED BY ILEVEL BY WEYERHAEUSER OR APPROVED EQUAL. INSTALL IN STRICT COMPLIANCE WITH THE MANUFACTURER'S STANDARD RECOMMENDATIONS AND DETAILS.

FRAMING LUMBER

- ALL FRAMING LUMBER WORK SHALL CONFORM TO THE FOLLOWING GOVERNING STANDARDS:
 - AMERICAN INSTITUTE OF TIMBER CONSTRUCTION, "TIMBER CONSTRUCTION MANUAL," LATEST EDITION.
 - NATIONAL FOREST PRODUCTS ASSOCIATION "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION," LATEST EDITION.
- FRAMING LUMBER SHALL HAVE EACH PIECE GRADE STAMPED, SHALL BE SURFACED DRY (EXCEPT STUDS, WHICH SHALL BE KILN DRIED) AND SHALL CONFORM TO THE FOLLOWING SPECIES AND GRADE:
 - RAFTERS AND JOISTS: DOUGLAS FIR-LARCH #2 OR HEM FIR #2
 - BEAMS, GIRDERS AND HEADERS: DOUGLAS FIR-LARCH #1 OR HEM FIR #1
 - STUDS AND PLATES: DOUGLAS FIR-LARCH STUD GRADE OR HEM FIR STUD GRADE
- TIMBER LUMBER SHALL CONFORM TO THE FOLLOWING SPECIE AND GRADE:
 - POST AND TIMBER: DOUGLAS FIR-LARCH #1 OR HEM FIR #1
 - BEAMS AND STRINGERS: DOUGLAS FIR-LARCH #1 OR HEM FIR #1
- PRESERVATIVE-TREATED WOOD: PROVIDE TREATED DOUG-FIR #2 LUMBER COMPLYING WITH ACQ-D (CARBONATE), COPPER AZOLE (CA-B), OR SODIUM BORATE (SBX (DOT) WITH NaS10/2) AT ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY, OR AS OTHERWISE INDICATED ON ARCHITECTURAL OR STRUCTURAL DRAWINGS. ACZA TREATMENT IS NOT PERMITTED. TREATED LUMBER AND/OR PLYWOOD SHALL BEAR THE LABEL OF AN ACCREDITED AGENCY SHOWING 0.40 PCF RETENTION. WHERE LUMBER AND/OR PLYWOOD IS CUT OR DRILLED AFTER TREATMENT, THE TREATED SURFACE SHALL BE FIELD-TREATED WITH COPPER NAPHTHATE (THE CONCENTRATION OF WHICH SHALL CONTAIN A MINIMUM OF 2% COPPER METAL) BY REPEATED BRUSHING, DIPPING, OR SOAKING UNTIL THE WOOD ABSORBS NO MORE PRESERVATIVE.
- ALL WOOD FRAMING INCLUDING DETAILS FOR BRIDGING, BLOCKING, FIRE STOPPING, ETC., SHALL CONFORM TO THE LATEST EDITION OF THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" AND ITS SUPPLEMENTS AND SHALL BE INSTALLED IN ACCORDANCE WITH THE NFPA "MANUAL FOR HOUSE FRAMING" OR THE GOVERNING LOCAL/STATE BUILDING CODE.
- FASTENING SHALL BE IN ACCORDANCE WITH THE MOST RESTRICTIVE OF: THE GOVERNING LOCAL/STATE BUILDING CODE, (LATEST EDITION), OR THE MANUFACTURER'S RECOMMENDED FASTENING SCHEDULES.
- ALL FLUSH FRAMED CONNECTIONS SHALL BE MADE WITH APPROVED GALVANIZED STEEL JOIST OR BEAM HANGERS, MINIMUM 18 GAUGE, INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- WHERE FRAMING LUMBER IS FLUSH FRAMED TO MICROLAM, STEEL OR FLITCH-PLATE GIRDER, SET THESE GIRDERS 1/2" CLEAR (MIN.) BELOW TOP OF FRAMING LUMBER, TO ALLOW FOR SHRINKAGE.
- STUD BEARING WALLS ARE TO BE 2 x 4 @ 16" O/C. AT THE INTERIOR AND 2 x 6 @ 16" O/C. AT THE EXTERIOR, UNLESS NOTED OTHERWISE ON PLAN.
- ALL RAFTERS AND JOISTS SHALL ALIGN DIRECTLY WITH STUDS BELOW, WHERE REQUIRED INSTALL ADDITIONAL STUDS.
- LAP ALL PLATES AT CORNERS AND AT INTERSECTION OF PARTITIONS.
- STAGGER ALL TOP AND BOTTOM PLATE SPLICES A MINIMUM OF 32 INCHES.
- USE DOUBLE STUDS @ ENDS OF WALL AND ENDS OF WALL OPENINGS.
- USE DOUBLE TRIMMERS AND HEADERS AT ALL FLOOR OPENINGS WHERE BEAMS ARE NOT DESIGNATED.
- PROVIDE CROSS BRIDGING AT A MAXIMUM OF 8' O/C.
- BUILT UP BEAMS LESS THAN 8" DEEP SHALL BE SPIKED TOGETHER WITH 2 - 16D NAILS @16"/c. BUILT UP BEAMS GREATER THAN 8" DEEP SHALL BE SPIKED TOGETHER WITH 3 - 16D NAILS @16" O/C.
- NO NEW OR EXISTING JOISTS SHALL BE CUT OR NOTCHED WITHOUT APPROVAL.
- WOOD HEADER SCHEDULE

ROUGH OPENING WIDTH	WOOD HEADER SCHEDULE	HEADER
LESS THAN 3'-0"	2 x 4 WALL	2 x 6 WALL
3'-1 TO 4'-0"	(2) 2 x 6	(3) 2 x 8
4'-1" TO 6'-0"	(2) 2 x 8	(3) 2 x 8
6'-1" TO 8'-0"	(2) 2 x 10	(3) 2 x 10
OVER 8'-0"	(2) 2 x 12	(3) 2 x 12
	SEE PLANS	SEE PLANS

NOTE: PROVIDE (1) JACK STUD FOR SPANS LESS THAN 4'-0" WIDE,
(2) JACK STUDS FOR SPANS LESS THAN 8'-0" WIDE,
(3) JACK STUDS FOR SPANS OVER 8'-0" WIDE.
- ALL LIGHT-GAUGE HANGERS SUPPORTING PRESERVATIVE TREATED WOOD SHALL MEET OR EXCEED G185 (1.85 OZ OF ZINC PER SQUARE FOOT). ALTERNATIVELY, STAINLESS STEEL CONNECTIONS MAY BE USED. FASTENERS SHALL MATCH THE HANGER FINISH AND MATERIAL.
- WHERE JOIST ORIENTATION IS PARALLEL TO EXTERIOR STUD OR FOUNDATION WALLS, PROVIDE FULL-SECTION BLOCKING FOR 3 BAYS @ 4'-0" O/C. MAX. WHERE SHEATHING IS NOT CONTINUOUSLY FASTENED TO TOP OR BOTTOM OF JOIST, PROVIDE 18 GA x 1-1/2" x 1'-0" (MIN.) FLAT TENSION STRAP BETWEEN ALIGNED BLOCKING MEMBERS.
- ALL SILL PLATES SHALL BE PRESSURE TREATED AND ANCHORED TO FOUNDATION WALLS WITH 1/2" DIA. HEADED ANCHOR BOLTS (ASTM F1554) @ 4'-0" O/C. AND WITHIN 12" OF ALL SILL PLATES SPLICES. (MIN. 7" EMBED.)

SPECIAL INSPECTIONS

- INSPECTIONS REQUIRED BY THE LOCAL JURISDICTION SHALL BE PERFORMED BY A TESTING AGENCY PROVIDED BY THE OWNER FOR THE FOLLOWING ITEMS:
 - STEEL CONSTRUCTION (IBC 1704.3, TABLE 1704.3)
 - WELDING (IBC 1704.3.1)
 - DETAILS (IBC 1704.3.2)
 - HIGH-STRENGTH BOLTING (IBC 1704.3.3)
 - CONCRETE CONSTRUCTION (IBC 1704.4, TABLE 1704.4)
 - MATERIALS (IBC 1704.4.1)
 - MASONRY CONSTRUCTION (IBC 1704.5)
 - LEVEL 1 SPECIAL INSPECTIONS (TABLE 1704.5.1)
 - LEVEL 2 SPECIAL INSPECTIONS (TABLE 1704.5.3)
 - SOILS (IBC 1704.7, TABLE 1704.7)

THE TESTING AGENCY FOR THE INSPECTIONS SHALL FILE ALL APPROPRIATE FORMS WITH THE BUILDING DEPARTMENT.