

- GENERAL NOTES:**
1. STRUCTURAL DRAWINGS AND SPECIFICATIONS, TO THE BEST OF THE ENGINEER'S KNOWLEDGE, COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE STATE OF NEW JERSEY IBC 2006 NJ EDITION BUILDING CODE, LATEST EDITION AND REVISION.
 2. ALL CONSTRUCTION SHALL BE PERFORMED IN CONFORMANCE WITH THE REQUIREMENTS OF THE STATE OF NEW JERSEY IBC 2000 NJ EDITION BUILDING CODE, LATEST EDITION AND REVISION.
 3. ALL REFERENCED STANDARDS REFER TO THE EDITION IN FORCE AT THE TIME THESE DRAWINGS AND SPECIFICATIONS ARE ISSUED FOR BID.
 4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE STRUCTURAL DRAWING WITH THE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND DRAMAING RELATED TO OTHER TRADES. THE CONTRACTOR SHALL MAKE ALLOWANCE IN HIS BID FOR THE MORE STRINGENT REQUIREMENTS. CONFLICTS BETWEEN THE STRUCTURAL DRAWINGS AND THE DRAWINGS OF OTHER TRADES SHALL NOT BE REASON FOR AN EXTRA COST OR DELAY IN THE EXECUTION OF THE WORK.
 5. IN ANY CASE OF CONFLICT BETWEEN THE NOTES AND DETAILS, THE MOST RIGID REQUIREMENTS SHALL GOVERN.
 6. CONTRACTOR SHALL MAKE NO DEVIATION FROM DESIGN DRAWINGS WITHOUT WRITTEN APPROVAL OF THE ARCHITECT AND/OR STRUCTURAL ENGINEER.
 7. WORK NOT INDICATED ON A PART OF THE DRAWINGS BUT REASONABLY APPEARED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED.
 8. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING THE COMPLETE LAYOUT AND DETAILS OF ALL STRUCTURAL WORK TO BE PERFORMED. THE CONTRACTOR MAY NOT PERFORM WORK UNTIL THE SHOP DRAWINGS HAVE BEEN APPROVED.
 9. ALL WORK SHALL HAVE CONTROLLED INSPECTION CONFORMING TO NEW JERSEY STATE REQUIREMENTS. CONTROLLED INSPECTION SHALL BE BY AN INDEPENDENT TESTING AGENCY HIRED BY THE OWNER.
 10. CONTRACTOR MUST PROVIDE ADEQUATE SHORING AND/OR TEMPORARY SUPPORT WHEREVER REQUIRED DURING THE ENTIRE CONSTRUCTION PERIOD.
 11. THE CONTRACTOR SHALL PROTECT EXISTING FACILITIES, STRUCTURES, AND UTILITY LINES FROM ALL DAMAGE.
 12. JOB SAFETY AND CONSTRUCTION PROCEDURES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
 1. FOUNDATION DESIGN IS BASED ON THE SOIL BEARING

- REINFORCED CONCRETE**
1. STRUCTURAL CONCRETE AND BUILDING PRACTICES SHALL CONFORM WITH ACI-318, "AMERICAN CONCRETE INSTITUTE BUILDING CODE FOR REINFORCED CONCRETE."
 2. "AMERICAN CONCRETE INSTITUTE BUILDING CODE FOR REINFORCED CONCRETE" DETAILS SHALL BE IN ACCORDANCE WITH ACI-115, "MANUAL OF STANDARD PRACTICE" FOR DETAILING REINFORCEMENT AT CORNER OR JUNCTIONS. THE CONTRACTOR SHALL OBTAIN APPROVED CONCRETE TESTS FOR THE PRELIMINARY DESIGN MIX PREPARED BY AN APPROVED LABORATORY MUST BE SUBMITTED TO THE ENGINEER. NO CONCRETE TO BE PLACED BEFORE THIS IS APPROVED BY THE ENGINEER.
 3. ALL CONCRETE SHALL BE NORMAL WEIGHT AND HAVE MINIMUM 28 DAYS COMPRESSIVE STRENGTH AS INDICATED BELOW. U.O.N.
 4. FOUNDATION CONCRETE (PILE CAPS, WALLS AND GRADE BEAMS)
 5. CONCRETE SLAB ON GROUND FLOOR
 6. CONCRETE SLAB ON METAL DECK
 7. OTHERS
 8. ALL REINFORCING BARS SHALL BE LAPPEAD AS SPECIFICALLY DETAILED ON THE DRAWINGS. THE TOP SPECIFICALLY INDICATED. ALL REINFORCING BARS SHALL BE LAPPEAD USING THE METHOD SPECIFICALLY INDICATED. ALL REINFORCING BARS SHALL BE LAPPEAD TO THE WALL TOP HORIZONTAL REINFORCEMENT AT CENTER OF SPAN LAP WALL BOTTOM HORIZONTAL REINFORCEMENT AT SUPPORT LAP INSIDE FACE. WALL VERTICAL REINFORCEMENT AT SUPPORT LAP OUTSIDE FACE. VERTICAL WALL REINFORCEMENT AT MIDHEIGHT OF WALL. UNLESS OTHERWISE NOTED TERMINATE CONTINUOUS BARS AT DISCONTINUOUS ENDS WITH STANDARD HOOKS.
 9. MINIMUM CONCRETE COVER SHALL BE 3/4" INCH FOR SLABS, 1" INCH FOR WALLS AND 1-1/2" INCHES FOR COLUMNS. MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE 1" INCH FOR SLABS ON GRADE. ALL CONCRETE EXPOSED TO WEATHER OR EARTH SHALL HAVE MINIMUM CONCRETE COVER OF 2" INCHES FOR BARS LARGER THAN #5, 1-1/2" INCHES FOR #5 BARS OR SMALLER. FOR ALL CONCRETE CAST AGAINST EARTH PROVIDE 3" INCHES COVER. ALL CONCRETE PLACED AGAINST PERMANENT SHEETING SHALL HAVE 4" INCHES COVER.
 10. PROVIDE CONSTRUCTION JOINTS IN ACCORDANCE WITH ACI-318 BUILDING CODE. SUBMIT SHOP DRAWINGS SHOWING CONSTRUCTION JOINT LOCATIONS ALONG WITH THE SEQUENCE OF POURS FOR THE ENGINEER'S REVIEW.
 11. NO CONCRETE TEST WILL BE ACCEPTED IF CONCRETE IS TAMPERED WITH IN ANY WAY AFTER SAID TEST IS PERFORMED. REPEAT TEST IF WATER IS ADDED AFTER INITIAL SAMPLING.
 12. THE CONTRACTOR SHALL PROVIDE REINFORCING STEEL ERECTOR WITH A SET OF STRUCTURAL PLANS FOR FIELD USE.
 13. ALL ADJOINING SURFACES NOT CAST MONOLITHICALLY SHALL BE ROUGHENED TO 1/4" INCH AMPLITUDE FOR THE ENTIRE INTERSECTING SURFACE ACCORDING TO ACI RECOMMENDATIONS.
 14. WHERE CONCRETE ABUTS MASONRY AND BRICK, PROVIDE VERTICAL METAL SLOTS TO RECEIVE GALVANIZED METAL DOWEL ANCHORS. SLOTS SHALL BE SPACED AT 24" O.C.
 15. SLABS ON GRADE TO BE POURED IN ALTERNATE BAYS OF NOT MORE THAN 900 SQ.FT. AND 30 FT IN ANY DIRECTION (OR SAWCUT TO THE SAME AREA REQUIREMENTS)
 16. ALL REINFORCING BARS SHALL CONFORM TO ASTM A618, GRADE 60. THE STEEL SUPPLIER SHALL PROVIDE THE ENGINEER WITH AN AFFIDAVIT OF THE PRODUCER OF STEEL CERTIFYING THAT THE STEEL MEETS THE REQUIREMENTS OF THE A.S.T.M.
 17. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A685, CHAIR OR LIFT WIRE FABRIC DURING CONCRETE PLACEMENT TO INSURE PROPER POSITION IN SLAB.
 18. ALL REINFORCEMENT SHALL BE SECURED UP HELD IN PLACE WHILE PLACING CONCRETE. IF REQUIRED, ADDITIONAL BARS OR STRIPPERS SHALL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT FOR ALL BARS. THE ENGINEER OR HIS FIELD QUALIFIED REPRESENTATIVE MUST CHECK AND APPROVE ALL STEEL REINFORCEMENT PRIOR TO CONCRETE PLACEMENT.
 19. VERTICAL CONSTRUCTION JOINTS IN WALLS SHALL BE USED ONLY WITH PRIOR APPROVAL OF THE ENGINEER AND SHALL BE LOCATED AT LEAST FOUR FEET FROM ANY COLUMN LINE OR WALL OPENING FOR FOUNDATION WALLS.
 20. NO HORIZONTAL CONSTRUCTION JOINTS WILL BE PERMITTED IN WALLS AND SLABS UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS OR APPROVED IN WRITING BY THE ENGINEER.
 21. ALL EXPOSED CONCRETE SHALL HAVE AN AIR ENTRAINING AGENT.
 22. CONTRACTOR SHALL VERIFY DIMENSIONS AND LOCATIONS OF ALL OPENINGS, PIPE SLEEVES, CURBS ETC. AS REQUIRED BY OTHER TRADES BEFORE CONCRETE IS PLACED. FOR LOCATION OF FLOOR DRAINS, SEE ALSO ARCHITECTURAL, MECHANICAL AND ALL OTHER CONTRACT DRAWINGS.
 23. COORDINATE LOCATION OF SLOTTED INSERTS, WELD PLATES, AND OTHER ITEMS TO BE EMBEDDED IN CONCRETE WITH ARCHITECTURAL, MECHANICAL AND ALL OTHER CONTRACT DRAWINGS.
 24. PREPS OR CONDUITS PLACED IN SLABS SHALL NOT BE SPACED CLOSER THAN 3 X THE DIAMETER ON CENTER. PREPS AND CONDUITS PLACED IN SLABS SHALL NOT HAVE AN OUTSIDE DIAMETER LARGER THAN 1/3 OF SLAB THICKNESS NOR 2" INCHES INSIDE DIAMETER. PREPS AND CONDUITS SHALL BE SPACED AT LEAST 12" FROM ANY COLUMN. EMBEDDED BOXES MAY BE PLACED IN STRUCTURAL CONCRETE SLAB BUT SHALL NOT EXCEED 4 1/2" X 4 1/2" X 3 1/2" IN DEPTH AND SHALL BE SEPARATED FROM OTHER JOINTION BOXES BY NOT LESS THAN 8" OF CONCRETE. MEASURED IN THE PLANE OF THE SLAB. DEVIATIONS FROM THE ABOVE ARE SUBJECT TO PRIOR APPROVAL BY THE ENGINEER.
 25. THE CONTRACTOR AT HIS OWN EXPENSE, SHALL ENGAGE A PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF NEW JERSEY, TO DESIGN FORMS, SHORES AND REINHERS. THE DESIGN AND SPECIFICATIONS SHALL BE SIGNED AND SEALED BY THE ENGINEER.
 26. CONTRACTOR SHALL COORDINATE SLAB DEPRESSIONS FOR FLOOR FINISHES WITH ARCHITECTURAL AND ALL OTHER CONTRACTOR DRAWINGS.

- STRUCTURAL STEEL NOTES**
1. FABRICATE AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, "MANUAL FOR STEEL CONSTRUCTION, LATEST EDITION."
 2. ALL STEEL DETAILS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AISC "MANUAL FOR STEEL CONSTRUCTION, LATEST EDITION" AND NEW JERSEY STATE CODE.
 3. ALL WIDE FLANGE MEMBERS SHALL CONFORM TO ASTM STANDARD A-992 WITH A MINIMUM YIELD STRENGTH OF 50 KSI UNLESS SPECIFICALLY INDICATED OTHERWISE ON THE DRAWINGS.
 4. ALL SQUARE AND RECTANGULAR TUBING MEMBERS SHALL CONFORM TO ASTM STANDARD A - 500 WITH A MINIMUM YIELD STRENGTH OF 46 KSI UNLESS SPECIFICALLY INDICATED OTHERWISE ON THE DRAWINGS.
 5. ALL CHANNELS, ANGLES, BASE PLATES, GUSSET PLATES AND COLUMN CAP PLATES SHALL CONFORM TO ASTM STANDARD A36 UNLESS OTHERWISE NOTED.
 6. SHOP AND FIELD CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS MAY BE BOLTED OR WELDED.
 7. THE CONTRACTOR SHALL PROVIDE AT NO ADDITIONAL COST, ALL ADDITIONAL STEEL, CONNECTIONS, BRACKETS, GYING ETC. REQUIRED FOR ERECTION. THESE TEMPORARY STEEL SHALL BE REMOVED AFTER COMPLETION OF ERECTION.
 8. ALL STEEL DETAILS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH THE AISC SPECIFICATIONS, LATEST EDITION.
 9. ALL BEAM TO GIRDER CONNECTIONS SHALL BE BOLTED CONNECTIONS USING 3/4" DIAMETER A325 BEARING BOLTS IN STANDARD HOLES. OR SIP CRITICAL, BOLTS IN OVERSIZED OR SLOTTED HOLES. ALL BEAM AND GIRDER CONNECTIONS, UNLESS SHOWN OTHERWISE, SHALL BE AT LEAST CAPABLE OF DEVELOPING THE REACTIONS SHOWN ON THE PLAN. IF THE REACTIONS ARE NOT SHOWN, PROVIDE CONNECTIONS AS PER CONNECTION TYPICAL DETAIL.
 10. PROVIDE HIGH STRENGTH SIP-CRITICAL BOLTED CONNECTIONS AT ALL COLUMN SPICES, BEAM-TO-COLUMN, BEAM-TO-SPANDREL, BRACING BEAMS, DIAGONAL AND TRUSS SPICES, AND BEAMS CARRYING MACHINE LOADS.
 11. ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS IN ACCORDANCE WITH A.W.S. SPECIFICATIONS, LATEST EDITION. ALL WELDING ELECTRODES SHALL CONFORM TO A.W.S. A51.1, GRADE E TO D, BARE ELECTRODES AND GRANULAR FLUX SHALL CONFORM TO A.W.S. A517, F7 0 A.W.S. FLUX CLASSIFICATION.
 12. ALL Bolt STEEL SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS, LATEST EDITION: HIGH STRENGTH BOLT A-325 AND A-499, U.O.N.
 13. CUTS, HOLES, COPIES, ETC. REQUIRED FOR WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS AND MADE IN THE SHOP. CUTS OR BURNING OF HOLES IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED.
 14. ALL ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GR36 UNLESS OTHERWISE NOTED.
 15. ALL FIELD SPICES AND CONNECTIONS SHALL BE WELDED OR BOLTED USING HIGH STRENGTH BOLTS.
 16. SPICES SHALL BE DESIGNED TO DEVELOP THE FULL CAPACITY OF THE MEMBER AT THE POINT OF SPICE UNLESS OTHERWISE NOTED. MEMBERS SHALL NOT BE SPICED AT THE POINTS OF MAXIMUM STRESS.
 17. ALL ENDS OF COLUMNS AT SPICES AND ALL OTHER BEARING CONNECTIONS SHALL BE MILLED TO COMPLETE TRUE BEARING.
 18. PROVIDE TEMPORARY BRACING OR GUYS TO PROVIDE LATERAL SUPPORT UNTIL PERMANENT NEW STRUCTURE CONCRETE SLABS, ARE INSTALLED.
 19. ALTERNATE CONNECTION DETAILS MAY BE USED, IF SHOP DETAILS ARE SUBMITTED TO THE ENGINEER FOR REVIEW AND ACCEPTANCE IS GRANTED. HOWEVER, THE ENGINEER SHALL BE THE JUDGE OF THE ACCEPTABILITY AND THE CONTRACTORS DO NOT INCLUDE THE COST OF THE ALTERNATE CONNECTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ANY ALTERNATE DETAILS WHICH HE PROPOSES. THE CONTRACTOR SHALL INCORPORATE THE APPROVED ALTERNATE DETAIL AT NO EXTRA COST TO THE OWNER.
 20. PROVISIONS SHALL BE MADE FOR CONNECTIONS OF OTHER TRADES INCLUDING CUTTING AND PUNCHING OF STRUCTURAL MEMBERS WHERE REQUIRED BY THE DRAWING OR FOR WHICH INFORMATION IS FURNISHED PRIOR TO FABRICATION.
 21. OVERSIZED OR SLOTTED HOLES SHALL NOT BE USED FOR ANY CONNECTIONS, UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR APPROVED IN WRITING BY THE ENGINEER.
 22. THE CONTRACTOR SHALL COORDINATE THE BOTTOM OF BASE PLATE ELEVATION WITH THE TOP OF CONCRETE ELEVATION.
 23. THE USE OF A CUTTING TORCH IN THE FIELD WILL NOT BE PERMITTED.
 24. WELDING ELECTRODES SHALL CONFORM TO ETOXX ELECTRODES.
 25. PROVIDE WELDED STIFFENER PLATES ON BOTH SIDES OF THE WEB OF BEAMS AT POINTS OF CONCENTRATED LOAD.
 26. FILLER BEAMS SHALL BE SPACED EQUALLY BETWEEN ESTABLISHED DIMENSIONS UNLESS OTHERWISE NOTED.
 27. ALL WELDS NOT SPECIFICALLY CALLED OUT SHALL BE AT LEAST THE MINIMUM WELD SIZE AS SPECIFIED BY THE AISC MANUAL OF STEEL DESIGN, LATEST EDITION.
 28. THE CONTRACTOR SHALL COORDINATE OPENING SIZES AND LOCATIONS IN THE FLOORS AND ROOF WITH THE ARCHITECTURAL AND MECHANICAL DRAWINGS, AND SHALL PROVIDE OPENING REINFORCEMENT AS REQUIRED.
 29. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL AND MECHANICAL AL DRAWINGS AND DRAWINGS RELATING TO OTHER TRADES. THE CONTRACTOR SHALL BE RESPONSIBLE TO CHECK AND COORDINATE DIMENSIONS, CLEARANCES, ETC. WITH THE WORK OF OTHER TRADES.
 30. ALL STEEL MEMBERS INCLUDING COLUMNS, BEAMS AND ATTACHMENTS FOR SHELF ANGLE SUPPORT AT THE PERIPHERY OF THE BUILDING SHALL BE SHOP PAINTED.
 31. ALL OTHER STEEL MEMBERS, PLATES CONNECTIONS, ACCESSORIES, AND MISCELLANEOUS MATERIAL SHALL USE INDEC THREE COAT SYSTEM, NEW STEEL TO BE SHOP PRIME.
 32. THE CONTRACTOR SHALL SUBMIT THE WELDING PROCEDURE TO EXISTING STEEL FOR ENGINEERS APPROVAL.
 33. BEAMS BEARING ON CMU WALLS SHALL BE PROVIDED WITH BEARING PLATES AND ANCHORED WITH BOLTS AS APPROVED BY THE ENGINEER.
 34. PROVIDE ADJUSTABLE MASONRY ANCHOR STRAPS WELDED TO COLUMNS AT 2'-0" O.C. MAX. EACH FACE IN CONTACT WITH MASONRY.
 35. PRIMEWATER STEEL BEAMS SHALL HAVE ADJUSTABLE MASONRY ANCHORS AT 2'-0" O.C. MAX. WELDED TO THEM AT FACE IN CONTACT WITH MASONRY.
 36. ALL STEEL TUBE MEMBERS SHALL BE SEALED WITH MIN. 3/4" STEEL PLATE AT BOTH ENDS. U.O.N.
 37. ALL STEEL TO BE PRIME PAINTED.

- MASONRY**
1. CONCRETE MASONRY SHALL HAVE A COMPRESSIVE STRENGTH (f'm) OF 2,000 PSI.
 2. MASONRY UNITS SHALL CONFORM TO ASTM G90, TYPE II, NORMAL WEIGHT HOLLOW U.O.N. WITH A UNIT STRENGTH AS REQUIRED TO ACHIEVE COMPRESSIVE STRENGTH SPECIFIED ABOVE.
 3. MORTAR SHALL CONFORM TO ASTM C270, TYPE M OR S FOR ABOVE GRADE CONSTRUCTION.
 4. GROUT FOR FILLED CELLS SHALL CONFORM TO ASTM C678 WITH 3000 PSI STRENGTH. AT 28 DAYS CELLS SHALL BE GROUTED IN INCREMENTS NOT EXCEEDING 6 FEET VERTICALLY.
 5. VERTICAL REINFORCING SHALL BE ASTM A618, GRADE 60 DEFORMED BARS, #4 @ 2'-8" U.O.N. MINIMUM LAP SPICES SHALL BE: #5 BARS 2'-8" AND #4 BARS 2'-6"
 6. HORIZONTAL REINFORCING SHALL BE NO. 9 GAGE "DUPROWAL" OR EQUIVALENT AND SHALL BE PLACED EVERY OTHER COURSE U.O.N.
 7. ALL BLOKS SHALL BE PLACED IN RUNNING BOND.
 8. ADDITIONAL VERTICAL BARS SHALL BE PLACED IN CORNER AND EACH SIDE OF OPENINGS AND AT END OF WALLS.
 9. ALL CELLS WITH REINFORCING BARS OR BOLTS SHALL BE GROUTED SOLID.
 10. PROVIDE BOND BEAM WITH 2 # 4 AT SECOND FLOOR AND ROOF LEVEL.
 11. POINT OF BEARING SHALL BE ON TWO COURSES MINIMUM OF MASONRY GROUTED SOLID CONTINUOUSLY.
 12. ALL MASONRY WORK, MATERIALS, INSPECTIONS, TESTING ETC. SHALL CONFORM WITH THE REQUIREMENTS OF THE NEW JERSEY STATE BUILDING CODE.
 13. FOR MASONRY PIER AROUND STEEL COLUMNS, PROVIDE #4@EACH CORNER, DOWEL INTO CONCRETE PIER BELOW, FILL CELL W/BAR SOLID. PROVIDE 0.9 GAGE "DUPROWAL" OR EQUIVALENT AND SHALL BE PLACED EVERY OTHER COURSE U.O.N.
 1. OWNER SHALL ENGAGE AN INDEPENDENT TESTING AGENCY TO BEFEROM CONTROLLED INSPECTION FOR, BUT NOT LIMITED TO, THE STRUCTURAL ITEMS LISTED BELOW AND REQUIRED BY THE NEW JERSEY BUILDING CODE.
 2. SOIL
 3. REINFORCED CONCRETE
 4. STEEL
 5. COLD FORMED METAL FRAMING
 6. MASONRY
 7. METAL DECK
 1. STEEL DECK SHALL CONFORM TO THE CURRENT SPECIFICATIONS FOR THE DESIGN OF STEEL DECK COLD FORMED STEEL STRUCTURE MEMBERS AS PER THE AISC AND STEEL DECK INSTITUTE SPECIFICATIONS AND STANDARDS.
 2. ALL METAL DECK SHALL BE FABRICATED AND INSTALLED FOR A THREE SPAN CONDITION MINIMUM. ONE SPAN CONDITIONS MUST BE SHORED IN ACCORDANCE WITH THE DECK MANUFACTURERS RECOMMENDATION.
 3. ALL COMPOSITE FLOOR DECK UNITS SHALL BE FASTENED TO THE STEEL FRAMEWORK AT ENDS OF UNITS AND AT ALL INTERMEDIATE SUPPORTS BY PROVIDE WELDS NOT LESS THAN 3/4" IN DIAMETER SPACED AT 12 INCHES ON CENTER MAXIMUM. SIDE LAPS OF ADJACENT UNITS MAY BE FASTENED BETWEEN SUPPORTS BY SIDE SEAM WELDING OR BUTT JUNCTIONING AT INTERVALS NOT EXCEEDING 24 INCHES ON CENTER. SEAM WELDS SHALL BE A MINIMUM OF 1 1/2 INCH BY 1/2 INCH.
 4. STEEL BEAMS AT SECOND FLOOR AND FLAT ROOF ARE DESIGNED AS COMPOSITE BEAMS WITH STEEL STUDS, STEEL DECK AND CONCRETE SLAB. CONTRACTOR SHALL PROPERLY INSTAL STUDS AND STEEL TAKING NECESSARY PRECAUTIONS AS RECOMMENDED BY THE DECKING MANUFACTURER. MAXIMUM SPACING OF STUDS SHALL BE 12 INCHES ON ALL FLOOR BEAMS.
 5. DECK CONTRACTOR SHALL COORDINATE DECK OPENINGS SIZE AND LOCATIONS WITH ARCHITECTURAL, MECHANICAL AND ALL OTHERS CONTRACT DRAWINGS. PROVIDE HEADER MEMBERS OR REINFORCEMENT AT DECK OPENINGS, AROUND COLUMNS ETC. TREAT OPENING IN DECK AS FOLLOWS:
 - I. FOR HOLES 6" OR LESS, PERPENDICULAR TO SPAN, NO REINFORCEMENT REQUIRED.
 - II. FOR HOLES OVER 6", BUT NOT MORE THAN 12", PROVIDE ONE 14 GAGE REINFORCING PLATE.
 - III. FRAME ALL OTHER OPENINGS AS INDICATED ON DRAWINGS.
 6. ALL METAL DECK SHALL BE FABRICATED AND INSTALLED FOR A THREE SPAN CONDITION MINIMUM. ONE SPAN CONDITIONS MUST BE SHORED IN ACCORDANCE WITH THE DECK MANUFACTURERS RECOMMENDATION.
 7. MECHANICAL EQUIPMENT, PIPING, DUCTWORK...ETC. SHALL NOT BE HUNG DIRECTLY.

- ABBREVIATIONS**
- ANCHOR BOLT
AB
STRUCTURALLY EXPOSED
CONTR. JOINT
CJ
EXPANSION JOINT
EJ
EACH END
EE
EACH FACE
EF
EACH WAY
EW
EDGE OF SLAB
EWS
HOLLOW STRUCTURAL STEEL
HSS
INSIDE FACE
IF
LONG WAY
LW
NO REINFORCING
NRF
NON-FLOOR
NLF
NOT TO SCALE
NTS
DUPLICATE
DU
SIMILAR
SIM
SLAB ON GRADE
SOG
STEEL
STL
TOP AND BOTTOM
T&B
TOP OF CONCRETE
T&C
TOP OF SLAB
TOS
TOP OF STEEL
TOSL
TOP OF WALL
TOW
UNLESS OTHERWISE NOTED
UN
VERIFY IN FIELD
VF
WORKING POINT
WP
WELDED WIRE FABRIC
WFW
- | Rev | Date | Revision |
|-----|------------|-----------------------|
| 01 | 07/21/2010 | FOR FOUNDATION PERMIT |
| 02 | 08/20/2010 | FOR FOUNDATION BD |
| 03 | 10/14/2010 | ISSUED |
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Two Story Addition
- Date:** June 24, 2010
Drawn By: 320 Peter Terese
Checked By: DAB - ULSM
Scale: As Noted
Block: **
Drawing No: GENERAL NOTES
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