BUILDING CODE:

SITE CLASS D 5ds = 0.214 Sdl = 0.11

SEISMIC IMPORTANCE FACTOR, IS = 1.0

BASIC SEISMIC FORCE RESISTING SYSTEM = AIS - LIGHT FRAMED (WOOD) WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE. ANALYSIS PROCEDURE - EQUIVALENT LATERAL FORCE ANALYSIS.

#### FOUNDATIONS:

SOIL REPORT BY RICKER, ATKINSON, McBEE, MORMAN, & ASSOCIATES, JOB NO. 630140. SPREAD FOOTINGS SHALL BEAR ON 1'-6" OF CONTROLLED COMPACTED FILL 2'-O" MINIMUM BELOW FINISHED GRADE. FINISHED GRADE IS DEFINED AS TOP OF SLAB FOR INTERIOR FOOTINGS AND LOWEST ADJACENT GRADE WITHIN 5 FEET FOR PERIMETER FOOTINGS. DESIGN SOIL BEARING VALUE = 2500 PSF. FOUNDATION EXCAVATIONS SHALL BE INSPECTED BY SOILS ENGINEER PRIOR TO PLACEMENT OF CONCRETE.

#### CONCRETE:

MINIMUM 28 DAY STRENGTH 3,000 PSI EXCEPT AS FOLLOWS:

SLABS ON GRADE ------ 3,000 PSI

MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT THAT SLABS ON GRADE NEED BE VIBRATED ONLY AROUND UNDER-FLOOR DUCTS, ETC. MAXIMUM SLUMP 4 1/2" FOR CONCRETE WITHOUT PLASTICIZER. IF PLASTICIZER IS USED, A HIGHER FINAL SLUMP MAY BE ALLOWED UPON STRUCTURAL ENGINEER'S APPROVAL. CAST CLOSURE POUR AROUND COLUMNS AFTER COLUMN DEAD LOAD IS APPLIED. UNLESS APPROVED OTHERWISE IN WRITING BY THE ARCHITECT, ALL CONCRETE SLABS ON GRADE SHALL BE BOUND BY CONTROL JOINTS (KEYED OR SAW CUT), AS SHOWN ON THE FOUNDATION PLAN, SUCH THAT THE ENCLOSED AREA DOES NOT EXCEED 150 SQUARE FEET. KEYED CONTROL JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING POURING, ALL OTHER JOINTS MAY BE SAW CUT.

FLY ASH - IF PERMITTED BY ARCHITECTURAL SPECIFICATIONS, SHALL BE LIMITED TO 18% OF CEMENTITIOUS MATERIALS AND SHALL HAVE A REPLACEMENT FACTOR OF 1.2 RELATIVE TO CEMENT REPLACED.

#### MASONRY:

HOLLOW CONCRETE MASONRY UNITS (MEDIUM WEIGHT) SHALL CONFORM TO ASTM CGO, GRADE N, TYPE I, FM = 2,000 PSI, RUNNING BOND, MORTAR TYPE S, 1,800 PSI. GROUT 2,000 PSI. MECHANICALLY VIBRATE GROUT IN VERTICAL SPACES IMMEDIATELY AFTER POURING AND AGAIN ABOUT 5 MINUTES LATER. PROVIDE CLEANOUTS IF GROUT LIFT EXCEEDS 4'-O" IN BLOCK WALLS. MAXIMUM GROUT LIFT SHALL BE 6'-O". UNLESS NOTED OTHERWISE ON THE PLANS, PLACE CONTROL JOINTS IN MASONRY WALLS SUCH THAT NO STRAIGHT RUN OF WALL EXCEEDS 24'-O". CONTROL JOINTS SHALL NOT OCCUR AT WALL CORNERS, INTERSECTIONS, ENDS, WITHIN 24" OF CONCENTRATED POINTS OF BEARING OR JAMBS, OR OVER OPENINGS UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS. ALL MASONRY BELOW FINISHED FLOOR OR GRADE SHALL BE GROUTED SOLID.

A MINIMUM OF 5/8" MORTAR COVER SHALL BE PROVIDED BETWEEN TIES OF JOINT REINFORCEMENT. ALL REINFORCING BARS, EXCEPT JOINT REINFORCING, SHALL BE COMPLETELY EMBEDED IN MORTAR OR GROUT AND HAVE A MINIMUM COVER, INCLUDING THE MASONRY UNIT, OF AT LEAST 3/4", I 1/2" OF COVER WHEN THE MASONRY IS EXPOSED TO WEATHER AND 2" OF COVER WHEN THE MASONRY IS EXPOSED TO SOIL.

THE CLEAR DISTANCE BETWEEN PARALLEL BARS, EXCEPT IN COLUMNS, SHALL NOT BE LESS THAN THE NOMINAL DIAMETER OF THE BARS OR I INCH, EXCEPT THAT BARS IN A SPLICE MAY BE IN CONTACT. THIS CLEAR DISTANCE REQUIREMENT APPLIES TO THE CLEAR DISTANCE BETWEEN A CONTACT SPLICE AND ADJACENT

THE CLEAR DISTANCE BETWEEN THE SURFACE OF A BAR AND ANY SURFACE OF A MASONRY UNIT SHALL NOT BE LESS THAN 1/2 INCH FOR COARSE GROUT. CROSS WEBS OF HOLLOW UNITS MAY BE USED AS SUPPORT FOR

SOLID BRICK MASONRY UNITS SHALL CONFORM TO ASTM C216, GRADE MW, TYPE FBS, Fm - 2,000 PSI, RUNNING BOND, MORTAR TYPE S, 1800 PSI. GROUT 2,000 PSI. LAY UP TWO-WYTHE WALL WITH FULL HEAD AND BED MORTAR JOINTS. ALL LONGITUDINAL VERTICAL JOINTS SHALL BE GROUTED SOLID. ONE TIER MAY BE CARRIED UP 16" BEFORE GROUTING, BUT THE OTHER TIER SHALL BE LAID UP AND GROUTED IN LIFTS NOT TO EXCEED SIX TIMES THE WIDTH OF THE GROUT SPACE OR 8" MAXIMUM. AT THE CONTRACTORS OPTION, TWO-MYTHE WALLS MAY BE GROUTED IN FOUR-FOOT LIFTS PROVIDING IT MEETS ALL THE REQUIREMENTS OF I.C.B.O. REPORT 3038. ROD GROUT IN VERTICAL SPACES IMMEDIATELY AFTER POURING AND AGAIN ABOUT 5 MINUTES LATER. UNLESS NOTED OTHERWISE ON THE PLANS, PLACE CONTROL JOINTS IN MASONRY WALLS SUCH THAT NO STRAIGHT RUN OF WALL EXCEEDS 24'-O". CONTROL JOINTS SHALL NOT OCCUR AT WALL CORNERS, INTERSECTIONS, ENDS, WITHIN 24" OF CONCENTRATED POINTS OF BEARING OR JAMBS, OR OVER OPENINGS UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS. ALL MASONRY BELOW FINISHED FLOOR OR GRADE SHALL BE GROUTED SOLID.

# MASONRY VENEER WITH WOOD STUD BACKING:

VENEER TIES SHALL BE OF 3/16" DIA, WIRE LOOP TIES AND SHOULD EMBED IN VENEER JOINT A MINIMUM OF 1/2 THE WIDTH OF THE VENEER. WIRE SHOULD BE COLD DRAWN STEEL CONFORMING TO ASTM AS2. WIRE LOOP TIES SHALL BE ATTACHED TO WOOD STUD BACKING AT 16" O.C. MAXIMUM VERTICAL SPACING. WIRE LOOP TIES SHALL BE ATTACHED TO WOOD STUDS USING 12 GAGE x 3/4" WIRE ANCHOR STRAP. ATTACH ANCHOR STRAP TO STUD USING I 1/4" x #10 ZING COATED SCRENS, WIRE LOOP AND ANCHOR STRAPS SHALL BE HOT DIPPED GALVANIZED AND SHALL CONFORM TO ASTM AISS.

PROVIDE CONTINUOUS STEEL ANGLE 4" x 4" x 5/16" FOR SUPPORT OF ALL VENEER MORE THAN 25' ABOVE ITS SUPPORT ON A FOUNDATION WALL OR WALL LEDGE, SEE TYPICAL DETAIL FOR ADDITIONAL INFORMATION.

# VERTICAL REINFORCING:

I #5 IN CENTER OF GROUT AT CENTER OF WALL, CONTINUOUS FULL HEIGHT OF WALL AT ALL CORNERS, INTERSECTIONS, WALL ENDS, BEAM BEARINGS, JAMBS, EACH SIDE OF CONTROL JOINTS AND AT INTERVALS NOT TO EXCEED 24" O.C. UNLESS NOTED OTHERWISE. TIE AT 8'-0" VERTICALLY, WITH SINGLE WIRE LOOP TIE BY A.A. WIRE PRODUCTS COMPANY. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION WITH DOWELS TO MATCH VERTICAL REINFORCING.

# HORIZONTAL REINFORCING:

1 #5 IN MINIMUM 8" DEEP GROUTED CONTINUOUS BOND BEAM AT TOP OF A FREESTANDING WALL. PLACE THESE BARS CONTINUOUS THRU CONTROL JOINTS PER TYPICAL DETAIL. PROVIDE BENT BARS PER TYPICAL DETAILS, TO MATCH HORIZONTAL BOND BEAM REINFORCING, AT CORNERS AND WALL INTERSECTION TO MAINTAIN BOND BEAM CONTINUITY. STAGGER SPLICES A MINIMUM OF 40 BAR DIAMETERS. DO NOT SPLICE WITHIN 8'-0" OF CONTROL JOINTS. STANDARD WEIGHT (NO. 9 GAGE WIRE) DUR-O-WAL OR DUR-O-WIRE (OR EQUIVALENT) LADDER TYPE JOINT REINFORCEMENT AT 16" O.C. IN MASONRY WALLS.

# LAP SPLICES IN MASONRY:

FOR GRADE 60 BARS, LAP SPLICES SHALL BE AS FOLLOWS: LAP SPLICE LENGTH SHALL BE Ld = 0.002 dbfs OR 40 BAR DIAMETERS, WHICHEVER IS GREATER.

FOR #4 BAR, Ld = 24" FOR #5 BAR, Ld = 30"

ASTM A615 (Fy = 60 KSI) DEFORMED BARS FOR ALL BARS. ALL GRADE 60 REINFORCING TO BE WELDED SHALL BE ASTM ATOG. NO TACK WELDING OF REINFORCING BARS ALLOWED WITHOUT PRIOR REVIEW OF PROCEDURE WITH THE STRUCTURAL ENGINEER. LATEST ACI CODE AND DETAILING MANUAL APPLY. CLEAR CONCRETE COVERAGES AS FOLLOWS:

CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH -----EXPOSED TO EARTH OR WEATHER #6 OR LARGER -#5 AND SMALLER --ALL OTHER PER LATEST EDITION OF ACI 318.

#### LAP SPLICES IN CONCRETE:

LAP SPLICES, UNLESS NOTED OTHERWISE, SHALL BE CLASS "B" TENSION LAP SPLICES PER LATEST EDITION OF ACI 318. STAGGER SPLICES A MINIMUM OF ONE LAP LENGTH,

ALL SPLICE LOCATIONS SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER. PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT ALL CORNERS AND INTERSECTIONS PER TYPICAL DETAILS. REINFORCING BAR SPACING GIVEN ARE MAXIMUM ON CENTERS. ALL BARS PER CRSI SPECIFICATIONS AND HANDBOOK. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION WITH STANDARD 90 DEGREE HOOKS UNLESS NOTED OTHERWISE. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE.

### DRYPACK:

REINFORCING:

DRYPACK SHALL BE 5,000 PSI NON-SHRINK GROUT, FIVE STAR OR EQUIVALENT. INSTALL DRYPACK UNDER BEARING PLATES BEFORE FRAMING MEMBER IS INSTALLED. AT COLUMNS, INSTALL DRYPACK UNDER BASEPLATES AFTER COLUMN HAS BEEN PLUMBED BUT PRIOR TO FLOOR OR ROOF INSTALLATION.

#### STRUCTURAL STEEL:

ALL STRUCTURAL STEEL SHALL BE ASTM A992 (Fix = 50 KSI). ALL CHANNELS, ANGLES, AND PLATES SHALL BE ASTM A36 (Fy = 36 KSI). ALL TUBE STEEL SHALL BE ASTM A500 (Fy = 46 KSI). ALL BOLTS SHALL BE ASTM ASOT, UNLESS NOTED OTHERWISE. ALL ANCHOR BOLTS SHALL BE ASTM F1554, GRADE 36 KSI (U.N.O.) ALL CONSTRUCTION PER LATEST AISC SPECIFICATION (PARTS 1 -4) APPLY PER HANDBOOK. (CODE OF STANDARD PRACTICE DOES NOT APPLY). ALL EXPANSION AND EPOXY BOLTS TO HAVE I.C.C. RATING FOR MATERIAL INTO WHICH INSTALLATION TAKES PLACE. ALL BOLTS, ANCHOR BOLTS, EXPANSION BOLTS, ETC. SHALL BE INSTALLED WITH STEEL WASHERS AT FACE OF WOOD OR AT SLOTTED HOLES IN STEEL SECTIONS. ALL WELDING SHALL BE PERFORMED BY WELDERS HOLDING VALID CERTIFICATES AND HAVING CURRENT EXPERIENCE IN THE TYPE OF WELD SHOWN ON THE DRAWINGS OR NOTES. CERTIFICATES SHALL BE THOSE ISSUED BY AN ACCEPTED TESTING AGENCY. ALL WELDING DONE BY ETO SERIES LOW HYDROGEN RODS UNLESS NOTED OTHERWISE. FOR GRADE 60 REINFORCING BARG, USE E90 SERIES. ALL WELDING PER LATEST AMERICAN MELDING SOCIETY STANDARDS. THESE DRAWINGS DO NOT DISTINGUISH BETWEEN SHOP AND FIELD WELDS; THE CONTRACTOR MAY SHOP WELD OR FIELD WELD AT HIS DISCRETION. SHOP WELDS AND FIELD WELDS SHALL BE SHOWN ON THE SHOP DRAWINGS SUBMITTED FOR REVIEW.

#### PREFABRICATED WOOD TRUSSES

PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED TO SUPPORT SELF WEIGHT PLUS LIVE LOAD AND SUPERIMPOSED DEAD LOADS STATED IN THE GENERAL STRUCTURAL NOTES OR LOCATED ON PLANS. BRIDGING SIZE AND SPACING BY TRUSS MANUFACTURER UNLESS NOTED OTHERWISE. TRUSS SHALL BE DESIGNED TO ACCOMMODATE A FUTURE MECHANICAL LOAD OF 300 POUNDS AT ANY LOCATION, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, ERECTION DRAWINGS AND DESIGN CALCULATIONS SEALED BY A REGISTERED ENGINEER FOR REVIEW PRIOR TO MANUFACTURE. CALCULATIONS AND SHOP DRAWINGS SHALL SHOW ANY SPECIAL DETAILS REQUIRED AT BEARING POINTS. ALL CONNECTORS SHALL HAVE CURRENT I.C.C. APPROVAL.

ADDITIONAL TRUSSES SHALL BE SUPPLIED AS REQUIRED TO SUPPORT MECHANICAL EQUIPMENT.

MULTIPLE TRUSS MEMBERS SHALL BE FASTENED TOGETHER TO ALLOW TRANSFER OF SHEAR AND TENSION FORCES (MINIMUM 200 PLF) AT PLYWOOD SHEATHING JOINTS AND TO PREVENT CROSS GRAIN BENDING OF TOP CHORDS. ATTACHMENT SHALL BE A CONTINUOUS 20 GAGE METAL PLATE OR OTHER APPROVED MEANS. METHOD OF ATTACHMENT SHALL BE INDICATED ON SHOP DRAWINGS FOR REVIEW.

#### MOOD:

# SAWN LUMBER

FRAMING LUMBER SHALL COMPLY WITH THE LATEST EDITION OF THE GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION OR THE WEST COAST LUMBER INSPECTION BUREAU. ALL SAWN LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED LUMBER GRADING AGENCY AND SHALL CONFORM TO THE FOLLOWING STANDARDS AND HAVE THE FOLLOWING MINIMUM PROPERTIES:

JOISTS	TYPE		(PSI)		(PSI)	(PSI)	(PSI)	
2 x 4	D.F. STANDARD		575		180	1,400,000	1400	)
2 x 6 OR LARGER BEAMS	D.F. #2		900			1600,000		
2x OR 4x	D.F. #I		1,000		180	1,700,000	1,500	
THAN 4"LEDGERS AND	D.F. *I	******	1,350		155	1600000	925	
TOP PLATES	DF. #2		900		180	1600,000	1,350	
2 x 4	D.F. STANDARD		575	-	180	1,400,000	1400	
2 X 6 OR LARGER	D.F. #2		900			1600000		
4 × 4	D.F. #2	-	900	-	180	1,600,000	1350	
4 X 6 OR LARGER	D.F. #2		900			1,600,000		
6 X 6 OR LARGER	D.F. *I		1,350			1,600,000		

VALUES SHOWN ABOVE ARE FROM TABLE 4A AND 4D OF THE 2018 NDS SUPPLEMENT, AND DO NOT INCLUDE ANY OF THE ADJUSTMENT FACTORS SUCH AS CD, C. AND C. . THE CALCULATIONS FOR THIS PROJECT INCLUDE THE ADJUSTMENT FACTORS AS APPLICABLE.

# GLUED-LAMINATED BEAMS (GLULAM):

GLUED-LAMINATED BEAMS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2,400 PSI, Fv = 145 PSI, Fc (PERPENDICULAR) = 650 PSI, E = 1800,000 PSI, BEAMS CANTILEVERING OVER SUPPORTS SHALL HAVE THE SPECIFIED MINIMUM PROPERTIES TOP AND BOTTOM. ALL BEAMS SHALL BE FABRICATED USING WATERPROOF GLUE. FABRICATION AND HANDLING PER LATEST AITC AND WOLA STANDARDS. BEAMS TO BEAR GRADE STAMP AND AITC STAMP AND CERTIFICATE. CAMBER AS SHOWN ON DRAWINGS.

ALL EXPOSED GLULAM BEAM TO EXTERIOR CONDITIONS (ROTDECAY, AND INSECT ATTACK) SHALL BE PRESSURE TREATED. THE TREATMENT SHALL BE IN ACCORDANCE WITH AITC TECHNICAL GUIDELINES. THE TREATMENT SHALL BE A CLEAN, NON-SMELLING, NON-LEACHING TREATMENT THAT IS INTENDED FOR ABOVE GROUND EXTERIOR APPLICATIONS.

# PLYWOOD:

ALL PLYWOOD SHALL BE C-D INTERIOR SHEATHING, STRUCTURAL 2 OR BETTER WITH EXTERIOR GLUE AND SHALL BEAR THE STAMP OF AN APPROVED TESTING AGENCY. LAY UP PLYMOOD WITH FACE GRAIN PERPENDICULAR TO SUPPORTS. STAGGER JOINTS. ALL NAILING, COMMON NAILS. WHERE SCREWG ARE INDICATED FOR WOOD TO WOOD ATTACHMENTS, USE WOOD SCREWS. ALL PLYWOOD SHALL BE OF THE FOLLOWING NOMINAL THICKNESS, SPANINDEX RATIO AND SHALL BE ATTACHED AS FOLLOWS UNLESS NOTED

USE	THICKNESS	SPAN/INDEX RATIO	EDGE ATTACHMENT	INTERMEDIATE ATTACHMENT
ROOF	1/2"	32/16	lode 6' oc -	lod e 12" ac

SHEAR WALL ---- 1/2" ----- 32/16 ---- 10d e 6' O.C. ---- 10d e 12' O.C.

#### GENERAL:

DO NOT NOTCH OR DRILL JOISTS, BEAMS OR LOAD BEARING STUDS WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER THRU THE ARCHITECT. PROVIDE 2" SOLID BLOCKING AT SUPPORTS OF ALL JOIST! DOUBLE UP STUDS AT JAMBS AND AS REQUIRED UNDER BEAMS IN BEARING WALLS. EVERY OTHER STUD OF WOOD FRAME BEARING WALL SHALL HAVE A SIMPSON HS ANCHOR TOP AND BOTTOM, EXCEPT AT THOSE WALLS WHERE PLYWOOD SHEATHING IS NAILED DIRECTLY TO THE TOP AND BOTTOM PLATES. PROVIDE 2 X SOLID BLOCKING AT MID-HEIGHT OF BEARING STUD WALLS. ALL NAILING NOT NOTED SHALL BE ACCORDING TO TABLE 2304.9.1 OF THE INTERNATIONAL BUILDING CODE. WOOD CONNECTORS SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC. OR OTHER MANUFACTURER WITH CURRENT AND EQUIVALENT I.C.C.

# EXPANSION BOLTS/EPOXY ANCHORS/SCREW ANCHORS

#### SEE CHART ON INSPECTION TABLES PAGE.

ADHESIVE ANCHORS INSTALLED IN HORIZONTAL TO VERTICALLY OVERHEAD ORIENTATION TO SUPPORT SUSTAINED TENSION LOADS SHALL BE DONE BY A CERTIFIED ADHESIVE/ANCHOR INSTALLER (AAI) AS CERTIFIED THROUGH ACI/CRSI (ACI 318-11 D.9.2.2)/(ACI 318-14 17.8.2.2)/(ACI 318-19 17.2.3) PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF INSTALLATION.

#### SHOP DRAWINGS:

SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS IN ADDITION TO ITEMS REQUIRED BY ARCHITECTURAL SPECIFICATIONS

THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMITTAL. ITEMS NOT IN ACCORDANCE WITH CONTRACT DOCUMENTS SHALL BE FLAGGED UPON HIS REVIEW.

VERIFY ALL DIMENSIONS WITH ARCHITECT AND ALL FINISHED GRADE WITH CIVIL DRAWINGS.

ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DOCUMENTS SHALL BE CLOUDED BY MANUFACTURER OR FABRICATOR. ANY OF THE AFOREMENTIONED WHICH ARE NOT CLOUDED OR FLAGGED BY SUBMITTING PARTIES, SHALL NOT BE CONSIDERED APPROVED AFTER ENGINEER'S REVIEW, UNLESS NOTED

THE ENGINEER HAS THE RIGHT TO APPROVE OR DISAPPROVE ANY CHANGES TO CONTRACT DOCUMENTS AT ANYTIME BEFORE OR AFTER SHOP DRAWING REVIEW.

THE SHOP DRAWINGS DO NOT REPLACE THE CONTRACT DOCUMENTS. ITEMS OMITTED OR SHOWN INCORRECTLY AND ARE NOT FLAGGED BY THE STRUCTURAL ENGINEER OR ARCHITECT ARE NOT TO BE CONSIDERED CHANGES TO CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE SURE ITEMS ARE CONSTRUCTED TO CONTRACT DOCUMENTS.

THE ADEQUACY OF ENGINEERING DESIGNS AND LAYOUT PERFORMED BY OTHERS RESTS WITH THE DESIGNING OR SUBMITTING AUTHORITY

REVIENING IS INTENDED ONLY AS AN AID TO THE CONTRACTOR IN OBTAINING CORRECT SHOP DRAWINGS. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR.

# DEFERRED SUBMITTALS: (PER 2018 IBC 107.3.4.1)

FOR THE PURPOSES OF THIS SECTION, DEFERRED SUBMITTALS ARE DEFINED AS THOSE PORTIONS OF THE DESIGN WHICH ARE NOT SUBMITTED AT THE TIME OF THE APPLICATION AND WHICH ARE TO BE SUBMITTED TO THE BUILDING OFFICIAL WITHIN A SPECIFIED PERIOD.

DEFERRAL OF ANY SUBMITTAL ITEMS SHALL HAVE PRIOR APPROVAL OF THE BUILDING OFFICIAL. THE ARCHITECT OR ENGINEER OF RECORD SHALL LIST THE DEFERRED SUBMITTALS ON THE PLANS AND SHALL SUBMIT THE DEFERRED SUBMITTAL DOCUMENTS FOR REVIEW BY THE BUILDING OFFICIAL.

SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD WHO SHALL REVIEW THEM AND PROVIDE A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE GENERAL CONTRACTOR MUST THEN FORWARD THEM TO THE BUILDING OFFICIAL. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

# DEFERRED SUBMITTAL ITEMS:

PRE-FABRICATED WOOD ROOF TRUSSES

# GENERAL:

ENTIRE CONTRACT DOCUMENTS SHALL BE USED TO BUILD BUILDING. SOME CRITICAL ITEMS REQUIRED BY OTHER DISCIPLINES MAY NOT BE SHOWN ON STRUCTURAL DRAWING (I.B. WALL, FLOOR AND ROOF OPENING, ARCHITECTURAL, MECHANICAL AND PLUMBING LOADS, SUPPORT PLATES ETC.)

ITEMS SHOWN BY OTHER DISCIPLINES WITH REFERENCE TO STRUCTURAL DRAWING BUT NOT SHOWN ON THESE

STRUCTURAL DOCUMENTS SHALL BE CONSIDERED DESIGN BUILD ITEMS. CONTRACTOR SHALL SUBMIT DESIGN BY THE STRUCTURAL CONSTRUCTION DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE

THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES FOR PROCEDURE OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENT THERETO (NOR SHALL OBSERVATION VISITS TO THE SITE INCLUDE INSPECTION OF THESE ITEMS).

CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED CONSTRUCTION. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.

WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDA.

ELECTRICAL WITH APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION. OPTIONS ARE FOR CONTRACTOR'S CONVENIENCE. IF HE CHOOSES AN OPTION, CONTRACTOR SHALL BE

RESPONSIBLE FOR ALL NECESSARY CHANGES AND SHALL COORDINATE ALL DETAILS.

ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, PLUMBING AND

NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE

ALL DIMENSIONS SHOWN (INCLUDING ELEVATIONS) ON STRUCTURAL DRAWINGS ARE TO ASSIST CONTRACTOR IN VERIFICATION.

CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS WITH ARCHITECTURAL AND FINISHED GRADE WITH CIVIL DRAWINGS PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY

TYPICAL DETAILS MAY NOT NECESSARILY BE CUT ON PLANS, BUT APPLY UNLESS NOTED OTHERWISE.

WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN.

ANY ENGINEERING DESIGN, PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW, SHALL BEAR THE SEAL OF AN ENGINEER RESISTERED IN THE STATE OF ARIZONA.

SUPPLIER OF ENGINEERED STRUCTURAL COMPONENTS (I.e. STEEL JOISTS, STAIRS, PRECAST ITEMS) SHALL BE RESPONSIBLE FOR COMPLETE DESIGN AND SHALL USE ENTIRE CONTRACT DOCUMENTS TO INCLUDE ALL LOADS AND DETAIL REQUIREMENTS FROM ALL DISCIPLINES. SUPPLIER SHALL PROVIDE ADDITIONAL MATERIAL REQUIRED TO MEET ALL THEIR REQUIREMENTS FOR INSTALLATION (I.S. WIDER BEARING PLATES, SHIMS, ERECTION BOLTS ETC.).

STRUCTURAL STEEL SUPPLIER SHALL FURNISH BOLTS FOR CONNECTIONS REQUIRED BY OSHA WHERE,

CONTINUOUS FOUNDATION DRAIN PIPES (FRENCH DRAINS) OR WEEP HOLES SHALL BE PROVIDED BEHIND ALL BASEMENT WALLS AND ALL EXTERIOR RETAINING WALLS THAT RETAIN MORE THAN 3'-O' OF SOIL WEEP HOLES WHERE USED SHALL BE 2" IN DIAMETER AT 6'-O" O.C. MAXIMUM.

SPECIAL INSPECTION (SEE SHEET SI.2):

# INTERPRETATION OF DRAWINGS

	LOCATION	OF INFORMATION	
ITEM	INFORMATION	LOCATION	SHEET
FOOTINGS	SIZE, REINFORCING DEPTH OF FOOTING	SCHEDULE (F) (MF) GENERAL STRUCTURAL NOTES (G.S.N.)	SI.5
COLUMNS	TYPE, SIZE, BASE PLATES, REINFORCING	SCHEDULE (C)	51.5
FRAMING MEMBERS	TYPE, SIZE, CONNECTION CAMBER, BEARING PLATES	SCHEDULE (B)	51.5

PLAN LEGEND			
SYMBOL	DESCRIPTION	REMARKS	
LOCATION OF DETAIL	DETAIL CUTS SHOWN ON PLANS	TYPICAL DETAILS ARE TWO DIGIT SERIES NUMBERS FOUNDATION DETAILS ARE 100 SERIES NUMBERS FRAMING DETAILS ARE 200 SERIES NUMBERS	
+	MOOD STUD WALL U.N.O.	SEE 6.9.N., PLANS & SCHED, FOR SIZE AND SPACING	
	MECHANICAL EQUIPMENT	SEE PLANS FOR UNIT WEIGHTS	
X	OPENING IN FRAMING	SEE NOTE #4	

#### NOTES

- I. FOR MATERIAL STRENGTHS, SEE GENERAL STRUCTURAL NOTES
- 2. VERIFY ALL DIMENSION WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION - RESOLVE ANY DISCREPANCIES WITH ARCHITECT.
- 5. FOR CLARITY, ALL EXTERIOR SLABS AND SIDEWALKS MAY NOT BE SHOWN, FOR EXACT DIMENSIONS, LOCATIONS, JOINT AND SCORE LINES, SEE ARCHITECTURAL DRAWINGS
- 4. FOR CLARITY, ALL OPENINGS MAY NOT BE SHOWN ON FRAMING PLANS. FOR EXACT SIZE, NUMBER, AND LOCATION OF OPENINGS, SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. FOR FRAMING AT OPENINGS, SEE TYPICAL STRUCTURAL DETAILS, VERIFY ALL SIZES, WEIGHTS AND LOCATIONS OF MECHANICAL EQUIPMENT WITH ECHANICAL ENGINEER AND MECHANICAL CONTRACTOR THROUGH ARCHITECT.
- 5. DETAILS MARKED "TYPICAL" MAY NOT BE CUT ON PLANS. 6. CONC C.J. - AS SHOWN ON PLAN INDICATES LOCATION OF EITHER KEYED OR SAW CUT
- CONTROL JOINT IN SLAB ON GRADE AT CONTRACTOR'S OPTION, SEE GENERAL STRUCTURAL 7. MAS C.J. - AS SHOWN ON PLAN INDICATES MASONRY CONTROL JOINT IN MASONRY WALL.
- SEE G.S.N. AND TYPICAL DETAIL. 8. FOR CLARITY, DETAILS MAY SHOW ONLY ONE SIDE OF FRAMING CONDITION.

WHERE THE SCHEDULES OCCUR. SCHEDULES ARE TYPICAL TO THE PROJECT.

- 9. CONTRACTOR TO VERIFY, AND BE RESPONSIBLE FOR VARIATIONS IN CONCRETE QUANTITY DUE TO CAMBER, CONSTRUCTION DEAD LOAD DEFLECTIONS AND/OR TOLERANCES OF STRUCTURAL STEEL ELEMENTS (I.S. BEAMS, STEEL DECK, ETC.) AND PRECAST CONCRETE
- IO. ALL SCHEDULE MARK DESIGNATIONS MAY NOT NECESSARILY BE FOUND ON THE PLANS

ABBRE	/IATIONS
A.B.C AGGREGATE BASE COURSE	HORIZHORIZONTAL
A/C AIR CONDITIONER	K(KIP) 1000 POUNDS
A.F.F ABOVE FINISHED FLOOR	LLLIVE LOAD
ALTALTERNATE	LBS (#) POUNDS
A.BANCHOR BOLT	LLHLONG LEG HORIZONTAL
AT (MEASUREMENT)	LLV LONG LEG VERTICAL
B.F.F BELOW FINISHED FLOOR	MFR('S) MANUFACTURER('S)
B.O.B BOTTOM OF BEAM	MAS C.J MASONRY CONTROL JOIN
B.O.D BOTTOM OF DECK	MECH'L MECHANICAL
B.O.F BOTTOM OF FOOTING	NA NOT APPLICABLE
BRG BEARING	N.T.S NOT TO SCALE
C.I.P CAST IN PLACE	O.CON CENTER
CLCENTERLINE	O.F.M OUTSIDE FACE OF WALL
C.L.B CENTERLINE OF BEAM	OPP OPPOSITE
CLC CENTERLINE OF COLUMN	P.A.F PONDER ACTUATED FASTENE
C.L.F GENTERLINE OF FOOTING	P.C PRECAST CONCRETE
CLM CENTERLINE OF WALL	P.JPANEL JOINT
CLRCLEAR	PLF POUNDS PER LINEAR FOO
CONC CONCRETE	PREFAB PREFABRICATED
CONC C.J CONCRETE CONTROL JOINT	PSF
CMU CONCRETE MASONRY UNIT	PSI
CONT CONTINUOUS	REINF REINFORCING
DL. — — — DEAD LOAD	SLH SHORT LEG HORIZONTAL
OR DIA	SLV SHORT LEG VERTICAL
DNDOWN	SIMSIMILAR
DWS(5)	SQSQUARE
E.O.S. — — — — EDGE OF SLAB	
EQEQUAL	STD STANDARD
EQUIP EQUIPMENT	T.LTOTAL LOAD
EVE BOLT - EVEANSION FOLT	T.O.B TOP OF BEAM
EXP. BOLT EXPANSION BOLT	T.O.D TOP OF DECK
EXP. JT (E.J.) EXPANSION JOINT	T.O.F TOP OF FOOTING
EMEACH MAY	TOL TOP OF LEDGER
F.FFINISHED FLOOR	T.O.M TOP OF MASONRY
F.O.M FACE OF MASONRY	T.O.PTOP OF PLATE
F.O.S FACE OF STEEL	T.O.S TOP OF STEEL
O.M FACE OF WALL	T.O.M TOP OF WALL
SAGAGE	TYPTYPICAL
GALV GALVANIZED	U.N.O UNLESS NOTED OTHERWIS
S.S.N GENERAL STRUCTURAL NOTES	VERTVERTICAL
SLB (GLULAM) GLUED-LAMINATED BEAM	MMF MELDED WIRE FABRIC
JF.W INSIDE FACE OF WALL	WWITH
LI M. L. Martin, and the	

WO -----MITHOUT

H.S. ---- HEADED STUD

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date 12/02/24 revisions