GENERAL NOTES:

GENERAL

1. THE DRAWINGS 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.
2. ANY CHANGE, MODIFICATION OR ALTERATION OF THESE PLANS SHALL BE AT THE SOLE RISK OF THE PERSON MAKING OR CAUSING THE SAME, AND SHOULD BE REVIEWED BY A LICENSED ARCHITECT FOR CONFORMITY WITH THESE PLANS.
3. THE OWNER AGREES TO HOLD HARMLESS, INDEMNIFY, AND DEFEND THE ARCHITECT, HIS EMPLOYEES, AND ENGINEERS AGAINST ANY AND ALL LIABILITY, CLAIMS, DAMAGES, AND COST OF DEFENSE ARISING OUT OF THE ERRORS OR OMISSIONS, OR NEGLIGENT ACTS CAUSED BY THE MODIFICATIONS TO THE PLANS AND SPECIFICATIONS.
4. ALL WORK SHALL CONFORM TO THE 2001 CALIFORNIA BUILDING CODE STANDARDS, AND THE REGULATIONS OF THE STATE OF CALIFORNIA, DIVISION OF INDUSTRIAL SAFETY, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES.
5. THESE NOTES AND SPECIFICATIONS ON STRUCTURAL DRAWINGS GOVERN IN CASE OF CONFLICT WITH OTHER SPECIFICATIONS. NOTIFY ENGINEER OF CONFLICTS WITH OTHER SPECIFICATIONS IMMEDIATELY.
6. NOTES AND DETAILS ON STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES, SPECIFICATIONS AND DETAILS PROVIDED ON S-1 SHEET. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.
7. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER/ARCH. IMMEDIATELY.
8. DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON DRAWINGS. TYPICAL DETAILS AND GENERAL NOTES ARE MINIMUM REQUIREMENTS TO BE USED WHEN CONDITIONS ARE NOT SHOWN OTHERWISE.
9. CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS ETC. IF ANY SUCH STRUCTURES ARE FOUND, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
10. CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON ROOF. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND/OR BRACING. SEE ROOF FRAMING NOTES 2 AND 3.
11. WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDUM.
12. GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL SUBMIT WRITTEN R.F.I. (REQUEST FOR INFORMATION) FORMS FOR SPECIFIC CLARIFICATIONS AND OR QUESTIONS RELATIVE TO THE APPROVED PLANS AND DETAILS, DIRECTED TO THE ENGINEER. ALL R.F.I. CORRESPONDENCE MUST BE DIRECTED THROUGH THE ARCHITECT IN WRITING. R.F.I.'s MUST INCLUDE:
NAME OF COMPANY AND SPECIFIC TRADE, WITH ADDRESS.
NAME OF INDIVIDUAL TO CONTACT, WITH TELEPHONE AND FAX NUMBERS.
SPECIFICS OF QUESTION, INCLUDING ALL DETAIL AND PLAN REFERENCES WITH CLEARLY WRITTEN REQUEST.
R.F.I.'s MUST INCLUDE DATE. AND R.F.I. NUMBERS THAT COORDINATE THE ARCHITECT.

CONCRETE

1. ALL CONCRETE SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28-DAYS, UNLESS NOTED OTHERWISE. THE WATER TO CEMENT RATIO SHALL NOT EXCEED 6 1/2 - GAL PER SACK OF CEMENT. MINIMUM OF 5 SACKS OF CEMENT PER CUBIC YARD (lbs. of water/lb. of cement= 5?lbs. water max/1 lb. of cement). MAX. SLUMP = 4"
2. ALL CONCRETE SHALL CONFORM TO THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE.
3. ALL CEMENT SHALL CONFORM TO A.S.T.M. C-150, TYPE I OR II, LOW ALKALI
4. FINE AND COARSE AGGREGATE SHALL CONFORM TO A.S.T.M. C-33 FOR STANDARD WEIGHT CONCRETE.
5. ALL AGGREGATE SHALL BE COMPARABLE TO "SAN GABRIEL VALLEY AGGREGATE. THE SHRINKAGE SHALL BE AS PER A.S.T.M. C-33 WITH THE AVERAGE DRYING SHRINKAGE AT 28-DAYS OF DRYING NOT EXCEEDING 0.04%.
6. DRYPACK SHALL BE COMPOSED OF ONE PART PORTLAND CEMENT TO NOT MORE THAN THREE PARTS SAND.
7. CONCRETE SHALL BE CURED BY KEEPING CONTINUOUSLY WET FOR 10- DAYS OR BY AN APPROVED CURING COMPOUND.
8. FURNISH AND INSTALL CONCRETE AS INDICATED IN THE PLANS AND FOLLOWING NOTES AND IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
9. CONCRETE MIX DESIGN SHALL BE PROVIDED BY A LICENSED ENGINEER/TESTING LABORATORY AND ISSUED TO THE ENGINEER OF RECORD FOR APPROVAL.

GENERAL FOUNDATION NOTES

1. ALL WORK SHALL BE DONE IN CONFORMANCE WITH THE SOILS REPORT AS PREPARED BY:

   EARTH SYSTEMS
   10134 SIXTH STREET, UNIT G — FILE NO.: 08224-01
   RANCHO CUCAMONGA, CA. 91703 — 01-03-141
   (909) 484-5465 — DATED: AUGUST 15, 2001

   ALLOWABLE SOIL PRESSURES:
   CONTINUOUS WALL = 12" MINIMUM WIDTH AND 12" BELOW GRADE:
   2000 PSF FOR DEAD PLUS LIVE LOADS
   ALLOWABLE INCREASES OF 300 PSF PER EACH FOOT OF ADDITIONAL FOOTING WIDTH AND 300 PSF FOR EACH ADDITIONAL 0.5 FOOT OF FOOTING DEPTH MAY BE USED UP TO MAXIMUM VALUE OF 3000 PSF
   ISOLATED PAD = 2x2 FOOT MINIMUM IN PLAN AND 18" BELOW GRADE:
   2000 PSF FOR DEAD PLUS LIVE LOADS
   ALLOWABLE INCREASES OF 300 PSF PER EACH ADDITIONAL FOOTING WIDTH AND 400 PSF FOR EACH ADDITIONAL 0.5 FOOT OF FOOTING DEPTH MAY BE USED UP TO MAXIMUM VALUE OF 3000 PSF
   A 1/3 INCREASE IN THE BEARING PRESSURE MAY BE USED WHEN CALCULATING RESISTANCE TO WIND OR SEISMIC LOADS
   SEISMIC DESIGN CRITERIA
   2001 C.B.C. SEISMIC COEFFICIENTS FOR CHAPTER 16 SEISMIC PROVISIONS
   SEISMIC ZONE: 4
   SEISMIC ZONE FACTOR, Z: 0.4
   SOILD PROFILE TYPE: Sd
   SEISMIC SOURCE TYPE: b
   CLOSEST DISTANCE TO KNOWN SEISMIC SOURCE: 7.5 MILES
   NEAR SOURCE FACTOR, Na: 1.00 (NORTH FRONTAL FAULT)
   NEAR SOURCE FACTOR, Nv: 1.00
   SEISMIC COEFFICIENT, Ca: 0.44= 0.44Na
   SEISMIC COEFFICIENT, Cv: 0.64= 0.64Nv
2. ALL SOILS SHALL BE PLACED UNDER THE SUPERVISION OF THE SOILS ENGINEER.
3. PRIOR TO PLACEMENT OF REINFORCING STEEL THE SOILS ENGINEER SHALL INSPECT FOUNDATION EXCAVATIONS
4. ALL REQUIRED FILL AND BACKFILL SHALL BE COMPACTED TO AT LEAST 90% OF THE MAXIMUM DENSITY OBTAINABLE BY THE A.S.T.M. DESIGNATION D-1557 METHOD OF COMPACTION. FLOODING OR JETTING IS NOT PERMITTED.
5. ALL FOOTINGS SHALL EXTEND TO A DEPTH OF AT LEAST 12" BELOW THE ADJACENT FINAL GRADE OR FLOOR LEVEL, WHICHEVER IS LOWER UNLESS NOTED OTHERWISE ON PLANS AND DETAILS.
6. UNDER ALL INTERIOR CONCRETE FLOOR SLABS ON GRADE PROVIDE A 2" LAYER OF MOIST SAND OVER PROPERLY GRADED SUBGRADE.

NOTE:
PROVIDE A LETTER FROM THE SOILS ENGINEER CONFIRMING THAT THE FOUNDATION PLAN GRADING PLAN AND SPECIFICATIONS HAVE BEEN REVIEWED AND THAT IT HAS BEEN DETERMINED THAT THE RECOMMENDATIONS IN THE SOILS REPORT ARE PROPERLY INCORPORATED INTO THE CONSTRUCTION DOCUMENTS.

NOTE:
PRIOR TO THE CONTRACTOR REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION, THE SOILS ENGINEER SHALL ADVISE THE BUILDING OFFICIAL IN WRITING THAT:
A) THE BUILDING PAD HAS PREPARED IN ACCORDANCE WITH THE SOILS REPORT
B) THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED AND COMPACTED
C) THE FOUNDATION EXCAVATIONS, THE SOILS EXPANSIVE CHARACTERISTICS AND BEARING CAPACITY CONFORM TO THE SOILS REPORT.

LUMBER

1. ALL STRUCTURAL LUMBER SHALL BE GRADED IN ACCORDANCE WITH THE "GRADING AND DRESSING RULES #16 OF THE WEST COAST LUMBER INSPECTION BUREAU.
2. ALL STRUCTURAL LUMBER SHALL BE DOUGLAS FIR-LARCH OF THE FOLLOWING GRADES UNLESS NOTED OTHERWISE ON STRUCTURAL DRAWINGS:
   STUDS, PLATES, BLOCKING ..... DF #2
   BEAMS, STRINGERS
   4x ..... DF #1
   6x & LARGER MEMBERS ..... DF #1
   POSTS & MILLIONS ..... DF #2
   ROOF PLANKING & DECKING ..... COM. DEX. -1450f
   JOISTS & PLANKING & RAFTERS ..... DF #1
   BOARDS, SHEATHING & STRIPPING ..... CONST. GRADE
   SILLS, PLATES, SLEEPERS, POSTS OR WOOD IN CONTACT WITH CONCRETE WHICH IS IN CONTACT WITH EARTH ..... CONST. GRADE / PRESSURE TREATED
3. ALL STRUCTURAL PLYWOOD SHALL CONFORM TO PS-1-95, AND SHALL BE IDENTIFIED WITH D.F.P.A. GRADE TRADEMARK.
4. ALL LUMBER, PLYWOOD, FIBER SHEATHING, PARTICLE BOARD AND STRUCTURAL GLUE-LAM TIMBER MUST BE IDENTIFIED BY A GRADE MARK OR CERTIFICATE OF INSPECTION ISSUE BY AN APPROVED AGENCY. PROVIDE MATERIAL SPECS. ON PLANS. U.B.C. SECTION 2305
5. ALL STRUCTURAL PLYWOOD SHALL BE MANUFACTURED WITH EXTERIOR GLUE AND CONFORM TO PS-1-95. EACH SHEET SHALL BE IDENTIFIED WITH AN A.P.A. GRADE TRADEMARK SEE DRAWINGS FOR GRADE AND THICKNESS.
6. STRUCTURAL MEMBERS SHALL NOT BE CUT FOR PIPES, ETC. UNLESS SPECIFICALLY NOTED OR DETAILED.
7. 2X SOLID BLOCKING SHALL BE PLACED BETWEEN JOISTS OR RAFTERS AT ALL SUPPORTS.
8. ALL WOOD BEARING ON CONCRETE OR MASONRY SHALL BE PRESSURE TREATED DOUGLAS FIR.
9. ALL BOLTS BEARING ON WOOD SHALL HAVE STANDARD CUT WASHERS UNDER HEAD AND NUT, UNLESS NOTED OTHERWISE.
10. HOLES FOR BOLTS SHALL BE BORED WITH A BIT 1/32" TO 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER.
11. ALL BOLTS SHALL BE RE-TIGHTENED PRIOR TO APPLICATION OF PLYWOOD, PLASTER, ETC.
12. WHERE LAG SCREWS ARE USED, PRE DRILL HOLE FOR SHANK THE SAME DIAMETER AS THE SHANK, AND 75% SHANK DIAMETER FOR THE THREADED PORTION. SCREW SHALL BE INSERTED WITH THE TURN OF A WRENCH. DRIVING WITH A HAMMER WILL NOT BE PERMITTED.
13. ALL JOIST HANGERS SHALL BE "SIMPSON", OR AN APPROVED EQUAL.
14. ALL WALLS SHALL HAVE 2x STUDS @ 16" O.C.

GENERAL NAILING NOTES

1. ALL NAILS SHALL BE COMMON WIRE NAILS UNLESS NOTED OTHERWISE AND SHALL CONFORM TO 2001 CALIFORNIA BUILDING CODE, TABLE NO. 23-II-B-1
2. NAILS SHALL BE DRIVEN PERPENDICULAR WHERE POSSIBLE INSTEAD OF TOENAILS.
3. PRE-DRILL FOR ALL NAILS 20d OR LARGER.

	QUANTITY OF SPACING	PENNY-WEIGHT	LENGTH (INCHES)	DIAMETER (INCHES)
A. JOIST OR RAFTERS AT ALL BEARINGS TOE NAIL EACH SIDE	3	8d	2 1/2	0.131
B. BRIDGING TO JOIST TOE NAIL EACH END	2	8d	2 1/2	0.131
C. 1" X 6" SUBFLOOR OR LESS TO EACH JOIST FACE NAIL	2	8d	2 1/2	0.131
WIDER THAN 1" X 6" SUBFLOOR TO EACH JOIST FACE NAIL	3	8d	2 1/2	0.131
D. 2" SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL	2	16d	3 1/2	0.162
E. SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	16" O.C.	16d	3 1/2	0.162
F. TOP PLATE TO STUD END NAIL	2	16d	3 1/2	0.162
G. STUD TO SOLE PLATE TOE NAIL	4	8d	2 1/2	0.131
H. DOUBLE STUDS FACE NAIL	24" O.C.	16d	3 1/2	0.162
I. DOUBLE TOP PLATES FACE NAIL	16" O.C.	16d	3 1/2	0.162
J. TOP PLATES, LAPS & INTERSECTIONS, FACE NAIL	2	16d	3 1/2	0.162
K. CONTINUOUS HEADER, TWO PIECES ALONG EACH EDGE	16" O.C.	16d	3 1/2	0.162
L. CEILING JOIST TO PLATE TOE NAIL	3	8d	2 1/2	0.131
M. CONTINUOUS HEADER TO STUD TOE NAIL	4	8d	2 1/2	0.131
N. CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	3	16d	3 1/2	0.162
O. CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	3	16d	3 1/2	0.162
P. RAFTER TO PLATE TOE NAIL	3	8d	2 1/2	0.131
Q. 1" BRACE TO EACH STUD AND PLATE FACE NAIL	2	8d	2 1/2	0.131
R. 1" X 8" SHEATHING OR LESS TO EACH BEARING FACE NAIL	2	8d	2 1/2	0.131
S. WIDER THAN 1" X 8" SHEATHING TO EACH BEARING FACE NAIL	3	8d	2 1/2	0.131
T. BUILT-UP CORNER STUDS	24" O.C.	16d	3 1/2	0.162
U. BUILT-UP GIRDER & BEAMS AT TOP AND BOTTOM STAGGER	32" O.C.	20d	4	0.192
AT ENDS & AT EACH SPLICE	2	20d	4	0.192
V. 2" FLANGE AT EACH BEARING	2	16d	3 1/2	0.162
W. BLOCKING BETWEEN JOISTS OR RAFTERS TO JOIST OR RAFTERS TOE NAILS, EACH SIDE	2	10d	3	0.148
TO JOIST OR RAFTER BEARINGS TOE NAILS, EACH SIDE	2	10d	3	0.148
X. JOISTS OR RAFTERS TO SIDES OF STUDS, 8" OR LESS	3	16d	3 1/2	0.162
FOR EACH ADDITIONAL 4" IN DEPTH OF JOIST	1	16d	3 1/2	0.162
Y. BLOCKING BETWEEN STUDS, EACH END OR 2-10d TOENAILS	2	16d	3 1/2	0.162
Z. RIBBONS TO STUDS 1" RIBBONS	2	8d	2 1/2	0.131
2" RIBBONS	2	16d	3 1/2	0.162

GLUE LAMINATED BEAMS

1. GLUED LAMINATED BEAMS SHALL BE COMBINATION
   2400F- V6 DF/DF FOR MULTI-SPAN & CANT. CONDITION
   2400F- V4 DF/DF FOR SIMPLE SPAN CONDITION
2. GLUED-LAMINATED BEAMS SHALL BE INDUSTRIAL APPEARANCE GRADE WHERE NOT EXPOSED AND ARCHITECTURAL APPEARANCE GRADE WHERE EXPOSED.
3. EXTERIOR GLUE SHALL BE USED WHERE LAMINATED BEAMS ARE EXPOSED TO WEATHER.
4. THE LAMINATED BEAMS SHALL BE FURNISHED AND DETAILED BY A LICENSED FABRICATOR SPECIALIZING IN THIS TYPE OF WORK.
5. ALL STRUCTURAL GLUED-LAMINATED LUMBER SHALL BE INSPECTED DURING LAMINATION BY AN APPROVED INSPECTION AGENCY. PROVIDE CERTIFICATE OF INSPECTION TO THE BUILDING DEPARTMENT.
6. EACH PIECE OF STRUCTURAL GLUED-LAMINATED LUMBER SHALL BE STAMPED WITH AN IDENTIFYING NUMBER AND SHALL BE ACCOMPANIED BY A CERTIFICATE OF INSPECTION AS REQUIRED IN SECTION 2304 OF THE CALIFORNIA BUILDING CODE.
7. INDUSTRIAL APPEARANCE LAMINATED BEAMS MAY BE GROUP WRAPPED, ARCHITECTURAL APPEARANCE LAMINATED BEAMS SHALL BE INDIVIDUALLY WRAPPED.
8. WHERE EVER THE ROOF PITCH IS 1/4" OR LESS, THE SIMPLE SPAN GLU-LAM BEAMS SHALL BE MANUFACTURED WITH 3000 FT. RADIUS CAMBER. MULTIPLE SPAN GLU-LAM BEAMS SHALL BE PROVIDED WITH NO CAMBER. UNLESS NOTED OTHERWISE.
9. GLUE LAMINATED BEAMS CAMBER SHALL BE 1 1/2 x DEAD LOAD DEFLECTION OR PER NOTE NO.8 ABOVE.
10. ADEQUATE BRACING SHALL BE PROVIDED DURING ERECTION.

PRESSURE TREATED LUMBER REQUIREMENTS

1. ALL NAILS, FASTENERS, JOIST HANGERS, AND OTHER HARDWARE ATTACHED TO PRESSURE TREATED LUMBER SHALL BE TREATED WITH SIMPSON "Z-MAX" COATING, OR SHALL BE HOT DIP GALVANIZED.
2. ALL PRESSURE TREATED LUMBER SHALL BE TREATED WITH A WATERBORNE TYPE PRESERVATIVE.

REINFORCING STEEL

1. ALL REINFORCING SHALL BE A.S.T.M. A-615 GRADE 60 U.N.O.
2. ALL REINFORCING TO BE WELDED SHALL BE OF A WELDABLE GRADE SUCH AS ASTM A706.
3. REINFORCING BARS MARKED CONTINUOUS SHALL BE SPLICED WITH A LAP OF 44 BAR DIAMETERS IN CONCRETE (36" MIN) AND 72 BAR DIAMETERS IN MASONRY (48" MIN).
4. ALL REINFORCING SHALL BE SECURELY TIED AND BRACED IN PLACE PRIOR TO POURING CONCRETE OR PLACING MASONRY.
5. USE LOW HYDROGEN ELECTRODES, GRADE E-80 FOR WELDED REINFORCING BARS.
6. PROVIDE THE FOLLOWING MINIMUM COVERING OF CONCRETE:
   BELOW GRADE (INFORMED) ..... 3" CLR.
   BELOW GRADE (FORMED) ..... 2" CLR.
7. REINFORCING STEEL SHOP DRAWINGS FOR STRUCTURAL CONCRETE SLAB AND BEAMS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER THROUGH ARCHITECT FOR REVIEW PRIOR TO FABRICATION.

GENERAL STRUCTURAL STEEL NOTES

1. STRUCTURAL STEEL W- SHAPE SHALL CONFORM TO A.S.T.M. (A992) GRADE 50.
   S, M & HP SHAPES & CHANNELS SHALL CONFORM TO A.S.T.M. (A992) GRADE 50 SPECIFICATIONS.
   ALL ANGLES & PLATES SHALL CONFORM TO A36 SPECIFICATION.
   ALL STRUCTURAL STEEL SHALL CONFORM TO THE A.I.S.C. SPECIFICATIONS FOR FABRICATION AND ERECTION.
2. ALL STEEL TUBES SHALL CONFORM TO A.S.T.M. A-500, GRADE 'B'. ALL STEEL PIPE SHALL CONFORM TO A.S.T.M. A-53 GRADE 'B'.
3. ALL STRUCTURAL STEEL SHALL BE FABRICATED IN THE SHOP OF A LICENSED FABRICATOR AND SHOP DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER THROUGH THE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION.
4. ALL SHOP WELDING SHALL BE DONE BY A FABRICATOR APPROVED BY THE DEPARTMENT OF BUILDING AND SAFETY, PER CBC SECTION 1701.7 (f). IN LIEU OF FABRICATOR APPROVAL, THE OWNER MAY EMPLOY A SPECIAL INSPECTOR, WHICH IS TO BE APPROVED BY THE DEPARTMENT OF BUILDING AND SAFETY, WHO WILL INSPECT ALL PHASES OF SHOP WELDING DURING SUCH TIMES THE WELDING IS TAKING PLACE. THE FABRICATOR OR SPECIAL INSPECTOR SHALL SUBMIT THEIR CREDENTIALS FOR REVIEW AND APPROVAL BY THE DEPARTMENT OF BUILDING AND SAFETY PRIOR TO THE START OF FABRICATION OR INSPECTION.
5. ALL FIELD WELDING EXCEPT MINOR OR TACK WELDING SHALL BE DONE BY CERTIFIED WELDERS UNDER THE OBSERVATION OF AN APPROVED SPECIAL INSPECTOR. SUCH INSPECTOR SHALL SUBMIT HIS / HER CREDENTIALS FOR REVIEW OF APPROVAL BY THE DEPARTMENT OF BUILDING AND SAFETY PRIOR TO REPORTING TO THE JOBSITE.
6. ALL STUDS WELDED TO STEEL BEAMS AND COLUMNS SHALL BE NELSON STUDS OR OTHER APPROVED MFG.
7. STRUCTURAL STEEL MEMBERS REQUIRED TO BE FIREPROOFED, NEED NOT BE PAINTED.
8. ALL BOLTS SHALL CONFORM TO A.S.T.M. (A-307) FOR UNFINISHED BOLTS, EXCEPT WHERE SPECIFICALLY NOTED AS HIGH STRENGTH BOLTS WHICH SHALL CONFORM TO A.S.T.M. (A-325). ALL (A-325) BOLTS SHALL HAVE SPECIAL INSPECTION.
9. ALL WELDING SHALL CONFORM TO THE A.W.S. SPECIFICATIONS.
10. ALL BOLTS FOR STEEL MEMBERS SHALL BE TRUE, BURNING OF HOLES FOR CONNECTIONS WILL NOT BE PERMITTED.
11. PROVIDE FILL BEARING ON UNTREADED PORTION OF BOLT SHANK FOR ALL STEEL CONNECTIONS.
12. ALL BOLT SPACING IN STRUCTURAL STEEL CONNECTIONS TO BE 3" MIN. BETWEEN BOLTS AND 1 1/2" MIN. EDGE DISTANCE, UNLESS NOTED OTHERWISE.
13. ALL NUTS FOR STRUCTURAL STEEL CONNECTIONS SHALL BE HEAVY HEXAGONAL NUTS.
14. PROVIDE BEVELED WASHERS UNDER NUTS AT STEEL CONNECTIONS, WHEN THE BEVEL EXCEEDS 1:20.
15. PROVIDE LEVELING NUTS FOR ALL BOLTS AT BEAM SEATS AND COLUMN BASE PLATES.

SPECIAL INSPECTION NOTES:

OWNER SHALL EMPLOY LICENSED DEPUTY INSPECTION FIRM TO PROVIDE THE FOLLOWING SPECIAL INSPECTIONS.
THE FIRM EMPLOYED SHALL FORWARD ALL CORRESPONDENCE TO THE ARCHITECT / ENGINEER OF RECORD.

1. FOR ANY HOLES DRILLED LARGER THAN 1 1/2" Ø OR ANY NOTCHES IN BM's OR JOISTS SHALL BE APPROVED BY THE ARCH. PRIOR TO INSTALLATION. SEE DETAIL 4-S1.1
2. ALL SHOP WELDING SHALL BE DONE BY A FABRICATOR APPROVED BY DEPARTMENT OF BUILDING AND SAFETY PER 2001 C.B.C. CHAPTER 1701.7 IN LIEU OF FABRICATOR APPROVAL THE OWNER MAY EMPLOY A SPECIAL INSPECTOR, WHICH IS TO BE APPROVED BY THE DEPARTMENT OF BUILDING AND SAFETY, WHO WILL INSPECT ALL PHASES OF SHOP WELDING DURING SUCH TIMES THE WELDING IS TAKING PLACE. THE FABRICATOR OR SPECIAL INSPECTOR SHALL SUBMIT THEIR CREDENTIALS FOR REVIEW AND APPROVAL BY THE DEPARTMENT OF BUILDING AND SAFETY PRIOR TO THE START OF FABRICATION OR INSPECTION.
3. ALL FIELD WELDING SHALL BE DONE BY CERTIFIED WELDERS.
4. FILL PENETRATION WELDS AND FILLET WELDS 5/16" OR LARGER SHALL BE DONE UNDER THE OBSERVATION OF AN APPROVED SPECIAL INSPECTOR. SUCH INSPECTOR SHALL SUBMIT HIS / HER CREDENTIALS FOR REVIEW BY THE DEPARTMENT OF BUILDING AND SAFETY PRIOR TO REPORTING TO THE JOBSITE.

REQUIRE SPECIAL INSPECTION

IN ADDITION TO THE REGULAR INSPECTION, THE FOLLOWING ITEMS WILL ALSO REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH SECTION 1701 OF THE 2001 C.B.C.

ITEMS:

1. SOILS COMPLIANCE PRIOR TO FOUNDATION INSPECTION
2. FIELD WELDING

ALL SPECIAL INSPECTION SHALL BE PERFORMED BY INDEPENDENT INSPECTION AGENCY EMPLOYED BY THE OWNER OR ARCHITECT AND NOT THE CONTRACTOR PER SEC. 1701

AGENCY OR INSPECTOR DOING SPECIAL INSPECTION MUST BE APPROVED BY THE DEPARTMENT OF BUILDING AND SAFTY, COUNTY OF SAN BERNARDINO

THE OWNER OR ARCHITECT / ENGINEER OF RECORD ACTING AS OWNER'S AGENT MUST SUBMIT SIGNED STATEMENT CERTIFYING SATISFATORY COMPLETION OF WORK REQUIRING SPECIAL INSPECTION PRIOR TO THE FINAL INSPECTION.

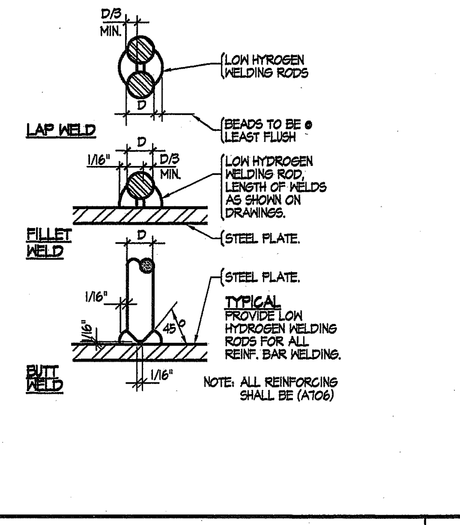
GENERAL DETAILS:

TYPICAL ABBREVIATIONS

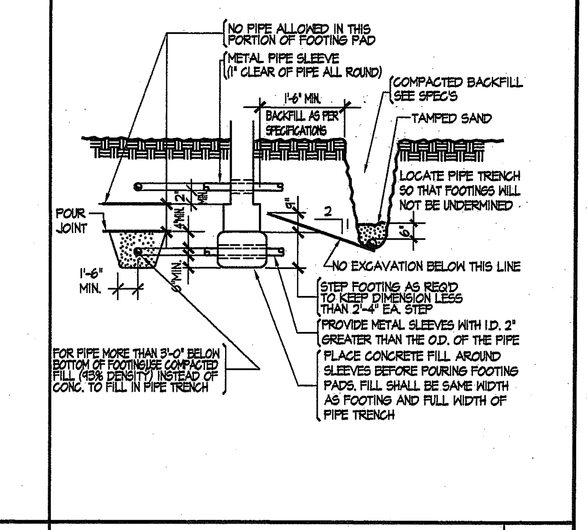
A.B. - ANCHOR BOLT	LG. - LONG
ARCHL. - ARCHITECTURAL	LT. WT. CONC. - LIGHT WEIGHT CONCRETE
BLK'G - BLOCKING	MAX. - MAXIMUM
BM. - BEAM	MB. - MACHINE BOLT
B.N. - BOUNDARY NAILING	MECHL. - MECHANICAL
B.S. - BOUNDARY SCREWING	MIN. - MINIMUM
B.O.B. - BOTTOM OF BEAM	N.S. - NEAR SIDE
B.O.F. - BOTTOM OF FRAMING	N.T.S. - NOT TO SCALE
BRNG. - BEARING	O.C. - ON CENTER
CANT. - CANTILEVER	P.D. - POWER DRIVEN
CHANN. - CHANNEL	PLYWD. - PLYWOOD
C.I.P. - CAST IN PLACE	REINF. - REINFORCING
C.J. - CEILING JOIST	REQ'D - REQUIRED
CLR. - CLEAR	R.R. - ROOF RAFTERS
COL. - COLUMN	S.D.S. - SELF DRILLING SCREWS
CONC. - CONCRETE	S.F. - SOFFIT FRAMING
CONT. - CONTINUOUS	SIMP. - SIMPSON
CNTRSNK. - COUNTERSINK	STL. - STEEL
DP. - DEEP	STIFF - STIFFNER PL
DET. - DETAIL	SQ. - SQUARE
DIAG. - DIAGONAL	THK. - THICK
EA. - EACH	THRD - THREADED
E.N. - EDGE NAILING	T.O.B. - TOP OF BEAM
E.W. - EACH WAY	T.O.CONC. - TOP OF CONCRETE
EXT. - EXTERIOR	T.O.M. - TOP OF MASONRY
F.P. - FULL PENE	T.O.P. - TOP OF PARAPET
FIN. FLR. - FINISHED FLOOR	T.O.S. - TOP OF SHEATHING
F.N. - FIELD NAILING	TS - TUBULAR STEEL
F.S. - FIELD SCREWING	TYP. - TYPICAL
GLB - GLU-LAM BEAM	U.N.O. - UNLESS NOTED OTHERWISE
HORIZ. - HORIZONTAL	VERT - VERTICAL
INT. - INTERIOR	W - WIDE
K.C. - KING COLUMN	PL - PLATE
K.P. - KING POST	℄ - CENTERLINE
	Ø - DIAMETER

STRUCTURAL SYMBOLS / LEGEND

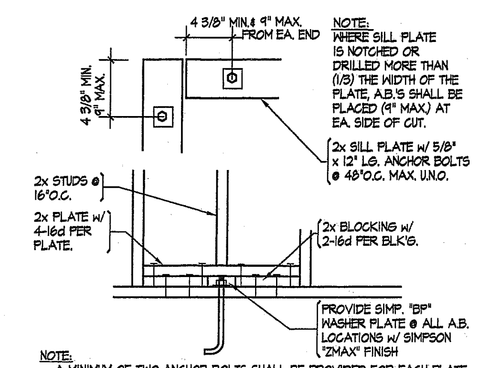
1. DETAIL OR SECTION NUMBER / SHEET WHERE DRAWN
2. DIRECTION OF STRUT
3. ELEVATION FROM DATUM
4. MASONRY IN PLAN OR SECTION VIEW
5. REFERANCE NOTE, REFER TO PLAN NOTE INDICATED
6. TRUSS OR WALL ELEVATION NUMBER / SHEET WHERE DRAWN
7. STEP FOOTING — ELEVATION TO BOTTOM OF FOOTING OR GRADE BEAM
8. ROOF DIRECTION AND SLOPE
9. WOOD MEMBER IN SECTION
10. INDICATES SHEAR PANEL CONSTRUCTION SEE DETAIL 1-S2.1 FOR SHEAR WALL SCHEDULES. INDICATES LENGTH OF SHEAR WALL
11. INDICATES DBL. 2x6 STUDS U.N.O.
12. INDICATES SHEAR WALL PANEL w/ CONT. DBL. 2x6 STUDS TO ROOF EACH END; SEE SHEAR WALL SCHEDULE ON 1-S2.1
13. INDICATES 6x6 POST IN WALLS U.N.O.
14. INDICATES SHEAR WALL PANEL w/ 6x6 POST EACH END; SEE SHEAR WALL SCHEDULE ON 1-S2.1
15. INDICATES SHEARMAX WALL PANEL; SEE FOUNDATION PLAN FOR SCHEDULE (INSTALL PER MANUF. SPECS.)
16. SHEAR ABV. / SHEAR BELOW — SHEAR BELOW / SHEAR ABOVE



TYPICAL REBAR BENDING | 5



PIPE & TRENCH LOCATIONS | 1



NOTE.
A MINIMUM OF TWO ANCHOR BOLTS SHALL BE PROVIDED FOR EACH PLATE WITH ONE BOLT LOCATED NOT MORE THEN 9" OR LESS THAN 7 BOLT DIAMETERS FROM EACH END OF THE PIECE. ANCHOR BOLTS SPACING SHALL NOT BE MORE THAN 48" O.C. MAX
a. THE MINIMUM NOMINAL ANCHOR BOLT DIAMETER SHALL BE 5/8" MINIMUM AND HOT DIPPED GALVANIZED
b. PLATE WASHERS (