

GENERAL NOTES

DESIGN CRITERIA

- ROOF LIVE LOAD: 20 PSF REDUCIBLE PER UBC
- FLOOR LIVE LOAD: PARTS STORAGE AREAS 150 PSF
- WIND: 15 MPH EXPOSURE C
- SEISMIC ZONE: 1.0 (S & T) 1.0 (S & T) 1.0 (S & T)
- UNIFORM BUILDING CODE: 1994 EDITION UNLESS OTHERWISE NOTED.

GENERAL REQUIREMENTS

- THE CONTRACTOR SHALL EXAMINE THE STRUCTURAL DRAWINGS AND SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES HE MAY FIND BEFORE PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND BITE CONDITIONS BEFORE STARTING WORK. THE ARCHITECT/ENGINEER SHALL IMMEDIATELY BE NOTIFIED IN WRITING OF ANY DISCREPANCIES.
- ALL CONDITIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.
- IN CASE OF CONFLICT BETWEEN THE ARCHITECT'S DRAWINGS AND THE STRUCTURAL ENGINEER'S DRAWINGS, THE ARCHITECT'S DRAWINGS SHALL TAKE PRECEDENCE OVER THE GENERAL NOTES' AND/OR STANDARD DETAILS.
- A SPECIFIC DETAIL IS NOT SHOWN FOR ANY PART OF THE WORK, THE CONTRACTOR SHALL USE THE BEST PRACTICE AND/OR STANDARD DETAILS.
- WORKING DIMENSIONS SHALL NOT BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THESE STRUCTURAL DRAWINGS.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND THE STRUCTURAL ENGINEER OF ANY CONDITION WHICH IN HIS OPINION MIGHT ENDANGER THE STABILITY OF THE STRUCTURE OR CAUSE DISTRESS TO THE STRUCTURE.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT HIS WORK AND HE SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. AS A PART OF HIS RESPONSIBILITY, THE GENERAL CONTRACTOR SHALL PROVIDE THE SERVICES OF A LICENSED STRUCTURAL ENGINEER TO DESIGN AND SUPERVISE ANY SCAFFOLDING FOR HIS WORKMEN AND SHORING OF FORMS AND ELEMENTS OF CONSTRUCTION AFFECTED BY HIS WORK. SHORING WILL BE REQUIRED AT VARIOUS LOCATIONS FOR EXISTING ROOFS AND WALLS DURING CONSTRUCTION.
- ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE LATEST EDITION OF THE UNIFORM BUILDING CODE, AND ALL OTHER REGULATING AGENCIES EXERCISING AUTHORITY OVER ANY PORTION OF THE WORK.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR INFORMATION NOT COVERED BY THESE GENERAL NOTES OR THE STRUCTURAL DRAWINGS.
- ALL CONSTRUCTION SHALL BE DONE WITH MATERIALS, METHODS, AND WORKMANSHIP AS ACCEPTED AS GOOD PRACTICE BY THE CONSTRUCTION INDUSTRY IN CONFORMANCE TO THE PROVISIONS OF THE 1994 EDITION OF THE "UNIFORM BUILDING CODE" (UBC) AND STANDARDS REFERENCED THEREIN.
- PIPES, DUCTS, SLEEVES, OPENINGS, ROCKET, CHAMFER BLOCK-OUTS, ETC. SHALL NOT BE PLACED IN SLABS, FOUNDATIONS, ETC. NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR SUCH ITEMS UNLESS SPECIFICALLY DETAILED ON THESE STRUCTURAL DRAWINGS.
- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY THAT HIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER PRIOR TO FABRICATION.
 - SHOP DRAWINGS SHALL BE COMPLETE, CHECKED AND APPROVED BY THE GENERAL CONTRACTOR BEFORE SUBMITTING TO THE ENGINEER FOR REVIEW.
 - THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION AND COORDINATION OF DIMENSIONS AND DETAILS FOR SUB-CONTRACTORS. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IF THERE ARE ANY DISCREPANCIES IN THE DIMENSIONS DETAIL.
 - SHOP DRAWINGS ARE REQUIRED FOR THE FOLLOWING ITEMS:
 - FIELD DIMENSIONS
 - CONCRETE EMBEDDED ITEMS
 - STRUCTURAL AND MISCELLANEOUS STEEL
- REFERENCE TO ASTM AND OTHER STANDARDS SHALL MEAN THE LATEST EDITION IN EFFECT ON THE DATE OF THE PROJECT'S COMMENCEMENT UNLESS OTHERWISE NOTED.
- REFER TO THE SPECIFICATIONS FOR INFORMATION IN ADDITION TO THESE NOTES AND THESE STRUCTURAL DRAWINGS.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR ELEVATIONS, DOORS, WINDOWS, NON-BEARING WALLS, STAIRS, SLOPES, CURBS, DRAINS, DEPRESSIONS, RAILINGS, WATER-PROOFING FINISHES, ETC.
- DO NOT SCALE DRAWINGS. PLEASE NOTIFY ARCHITECT OR ENGINEER IF YOU HAVE QUESTIONS.

FOUNDATIONS & EXCAVATIONS

- FOOTING ELEVATIONS SHOWN ON PLANS ARE FOR ESTIMATING PURPOSES ONLY AND SHALL BE VERIFIED IN THE FIELD.
- ALL SOIL CONDITIONS ON SITE PREPARATION WORK SHALL BE DONE UNDER THE DIRECT OBSERVATION OF A REGISTERED CIVIL ENGINEER OR ENGINEERING GEOLOGIST PRACTICING IN THE STATE OF NEVADA.
- PRIOR TO EXCAVATING FOR FOUNDATIONS, THE SOILS ENGINEER SHALL VERIFY IN WRITING TO THE ENGINEER THAT SITE PREPARATION COMPLETES WITH ALL OF THE RECOMMENDATIONS AND CONCLUSIONS OF THE SOILS REPORT.
- ALL FOOTINGS SHALL REST ON MATERIAL CAPABLE OF SUPPORTING 1500 PSF. MINIMUM WITHOUT SIGNIFICANT SETTLEMENT.
- A SOILS ENGINEER SHALL INSPECT ALL FOOTING EXCAVATIONS AND FILLS TO VERIFY DEPTH AND SOIL BEARING CAPACITY PRIOR TO PLACEMENT OF FORMS AND REINFORCING STEEL. THE SOILS ENGINEER SHALL VERIFY IN WRITING TO THE ENGINEER THAT THE EXCAVATION AND FOOTING PREPARATION COMPLETES WITH THE RECOMMENDATIONS AND CONCLUSIONS OF THE SOILS REPORT.
- ALL EXCAVATIONS SHALL BE INSPECTED BY A SOILS ENGINEER AND SLOPES SHORED OR REINFORCED AS DIRECTED BY HIM.
- THE FINISH EXCAVATION FOR FOUNDATIONS SHALL BE NEAT AND TRUE TO LINE WITH ALL LOOSE MATERIAL AND STANDING WATER REMOVED BEFORE CONCRETE IS PLACED. ALL BACKFILL SHALL BE COMPACTED TO 90% OF MAXIMUM DENSITY (ASTM D1557) UNDER THE SUPERVISION OF A SOILS ENGINEER.
- A TESTING LAB SHALL SUBMIT COMPACTION REPORTS FOR ALL FILL TO THE ENGINEER PRIOR TO REQUESTING THE FOUNDATION INSPECTION NOTED IN NO. 4 ABOVE.

SITE WORK

- ALL EXCAVATIONS, PREPARATIONS FOR DEPTH OF FOOTINGS, BACK FILL, ETC. SHALL BE PERFORMED IN ACCORDANCE WITH THE SOIL ENGINEER'S RECOMMENDATIONS. ANY DISCREPANCIES BETWEEN THE SOIL ENGINEER'S REPORT AND THE PLANS MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER PRIOR TO INITIATING ANY EXCAVATION SO THAT PROPER REMEDIAL WORK CAN BE PERFORMED.
- EXERCISE CAUTION DURING REMOVAL AND/OR EXCAVATION OF EXISTING WORK. LOCATIONS OF BELOW GRADE ARE APPROXIMATE. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD. SHOULD DISCREPANCIES ARISE CONTRARY TO THE INFORMATION ON THE DRAWINGS, NOTIFY THE ARCHITECT AND ENGINEER IMMEDIATELY. DO NOT PROCEED WITH WORK IN AREAS OF DISCREPANCY UNTIL ALL DISCREPANCIES ARE FULLY RESOLVED.
- ALL CONSTRUCTION AND FILL OPERATIONS SHALL BE INSPECTED AND APPROVED BY THE OWNER'S SOILS ENGINEER. RESULTS OF THESE INSPECTIONS SHALL BE FORWARDED TO THE ENGINEER AND THE CITY OF LAS VEGAS BUILDING DEPARTMENT. WORK NOT AS APPROVED SHALL BE CORRECTED TO THE SATISFACTION AND APPROVAL OF THE ENGINEER.
- EXISTING STRUCTURES: TAKE ALL PRECAUTIONS NECESSARY SO AS NOT TO DISTURB OR REMOVE ANY PART OF THE EXISTING UTILITIES, STRUCTURES, ETC. DURING THE EXECUTION OF THE WORK. IN THE EVENT OF DAMAGE TO ANY PART OF THE EXISTING STRUCTURES NOTIFY THE OWNER AND ENGINEER IMMEDIATELY.
- DEMOLITION: REMOVE, RELOCATE, AND/OR RELOCATE EXISTING PIPES, CONDUIT, UTILITIES, UTILITIES, EQUIPMENT AND MATERIALS AS INDICATED. REMOVE, OR NECESSARY, WHICH INTERFERES WITH THE NEW WORK, WHETHER OR NOT SPECIFICALLY SHOWN ON THE DRAWINGS.

METAL DECKING

- STEEL DECK SHALL BE AS MANUFACTURED BY VERCO MANUFACTURING COMPANY OR EQUAL AS LISTED IN SPECIFICATIONS. TYPES SHALL BE AS SHOWN ON THE DRAWINGS. ALL SHEETS SHALL BE COATED BEFORE FABRICATION BY THE CONTINUOUS STRIP HOT GALVANIZED PROCESS OR PRIMER PAINTED AS NOTED ON DRAWINGS. SHEETS SHALL CONFORM TO ASTM A583, GRADE C AND ZINC COATINGS SHALL CONFORM TO ASTM A595, CLASS G-60.
- DECK SHALL BE ANCHORED BY WELDING DIRECTLY THROUGH THE BOTTOM OF THE RIB TO ALL STRUCTURAL SUPPORTS AT MAXIMUM BRACING 1' O.C. SIDE BEAMS SHALL BE MECHANICALLY FASTENED BETWEEN SUPPORTS AT NOT MORE THAN 2'-6" O.C. REFER TO PLANS FOR COMPLETE DECKING ATTACHMENT INFORMATION.
- SHOP DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION. ANY FABRICATION ACCOMPLISHED PRIOR TO RECEIPT OF APPROVED SHOP DRAWINGS SHALL BE ACCOMPLISHED AT THE CONTRACTOR'S OWN RISK. DRAWINGS SHALL DELINEATE ALL WELDING CONNECTIONS, DETAILS OF INSTALLATION, ETC. CUTTING AND FINISHING OF OPENINGS NOT SHOWN ON DRAWINGS AS REQUIRED BY OTHER TRADES SHALL BE THE RESPONSIBILITY OF THE TRADE INVOLVED.

REINFORCED CONCRETE

- REINFORCED CONCRETE SHALL CONFORM TO THE FOLLOWING:
 - THE MINIMUM COMPRESSIVE STRENGTH SHALL BE AS FOLLOWS:

FOUNDATION	2500 PSI
SLAB ON-GRADE	3000 PSI
4000 PSI	
 - THE MAXIMUM SLUMP SHALL BE 3 INCHES.
 - THE MINIMUM CEMENT CONTENT SHALL BE FIVE AND ONE-HALF BAGS PER CUBIC YARD OF CONCRETE. MAXIMUM FINISH SHALL BE 18% PER CENTIMETER.
- PORTLAND CEMENT SHALL CONFORM TO ASTM C150 TYPE I.
- AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33.
- CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 308, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" EXCEPT AS MODIFIED BY THESE NOTES.
- ALL CONCRETE MIXES SHALL BE DESIGNED BY A CERTIFIED TESTING LABORATORY WHO SHALL SUBMIT COPIES OF THE DESIGN FOR APPROVAL AND SHALL IN ADDITION SUBMIT COPIES OF 7" AND 28 DAY CYLINDER TEST RESULTS TO THE ARCHITECT AND THE BUILDING DEPARTMENT AND OBTAIN APPROVAL PRIOR TO USE.
- CONCRETE IS TO BE PLACED THE CONTRACTOR SHALL COORDINATE AND CHECK WITH ALL TRADES TO INSURE THE PROPER PLACEMENT OF ALL OPENINGS, CURBS, SLEEVES, INSERTS, DEPRESSIONS, ETC. RELATING TO THE WORK.
- ADMITTANCE MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER. ADMIXTURES OF THE CONCRETE SHALL NOT BE CONSIDERED TO REDUCE THE SPECIFIED MINIMUM CEMENT CONTENT. ADMIXTURES CONTAINING CHLORIDES SHALL NOT BE USED.
- READY-MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C94.
- MINIMUM CONCRETE COVER (IN INCHES) FOR REINFORCING STEEL SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:

MINIMUM COVER INCHES	
CAST-IN-PLACE CONCRETE (NON-PRESTRESSED)	3
1. CAST AGAINST AND PERMANENTLY EXPOSED TO WEATHER:	
FORCED SURFACES EXPOSED TO WEATHER OR WEATHER:	2
1/2" AND LARGER BARS	2
1/4" AND SMALLER	1 1/2
2. CONCRETE SURFACES NOT EXPOSED TO WEATHER OR WEATHER:	
SLABS, WALLS, JOISTS:	1 1/2
1/4" AND SMALLER	3/4
3. PRIMARY REINFORCING TIES, STIRRUPS, SPIRALS:	1/2
- SLEEVES, PIPES, OR CONDUITS SHALL NOT BE PLACED THROUGH CONTINUOUS OR SPREAD FOOTING OR TIE BEAMS.
- AN INITIAL CURING OF CONCRETE SHALL IMMEDIATELY FOLLOW THE FINISHING OPERATION. THE CONCRETE SHALL BE KEPT CONTINUOUSLY MOIST OVERNIGHT BY USE OF ANY OF THE FOLLOWING:
 - SPRINKLING
 - WATERING
 - CURING COMPOUNDS APPLIED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER
- IMMEDIATELY FOLLOWING THE INITIAL CURING AND BEFORE THE CONCRETE HAS DRIED, ADDITIONAL CURING SHALL BE ACCOMPLISHED FOR 7 CUMULATIVE DAYS BY:
 - WATERING
 - WATERPROOF PAPER
 - OTHER MOISTURE-RETAINING COVERS AS APPROVED
- NO CONCRETE SHALL BE PLACED IN THE CORE TYPINGS OVER STEEL DECKING WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- REFER TO ARCHITECTURAL DRAWINGS FOR GROOVES, ORNAMENTS, CLIPS, OR GROUNDS REQUIRED TO BE CAST IN THE CONCRETE AND FOR EXTENT OF DEPRESSIONS.
- ALL VERTICAL SURFACES OF CONCRETE ABOVE FINISHED GRADE SHALL BE FORMED. DETAILS WHEN SHOWN ON THE PLANS SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER.
- CONCRETE PLACEMENT SHALL BE CONTINUOUS THROUGH CONSTRUCTION JOINTS. CONSTRUCTION OR COLD JOINTS OTHER THAN THOSE SHOWN ON THE PLANS SHALL NOT BE MADE WITHOUT PRIOR APPROVAL BY THE ARCHITECT AND THE ENGINEER.
- ALL BAR END CONNECTIONS SHALL BE MADE IN THE MIDDLE OF THE MEMBER TO BE ALAS-ON-GRADE FOURS SHALL BE LIMITED TO 12" SQUARE (SECTION TO BE APPROXIMATELY SQUARE) OR AS SHOWN ON THE PLANS. A COLD JOINT OR SAW CUT MAY BE USED. WELDING SHALL BE PERFORMED WITHIN 1 HOUR AFTER INITIAL SET HAS OCCURRED.
- CONCRETE SHALL NOT BE FREELY DROPPED MORE THAN THREE FEET.

REINFORCING STEEL

- REINFORCING STEEL SHALL BE NEW STOCK, DEFORMED BARS CONFORMING TO ASTM A618, GRADE 60 UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL BE MADE OF COLD DRAWN WIRE AND SHALL CONFORM TO ASTM A675.
- ALL BARS SHALL BE FREE OF RUST OR OIL. RESIDING OF BARS WILL NOT BE PERMITTED.
- ALL BARS SHALL BE MADE OF A SINGLE TYPE OF STEEL UNLESS OTHERWISE NOTED.
- ALL DETAILS OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH CHAPTER 17 OF THE AMERICAN CONCRETE INSTITUTE (ACI) BUILDING CONSTRUCTION CODE.
- LAPS AT BAR SPLICES IN CONCRETE CONSTRUCTION SHALL BE CLASS A OR B, IN ACCORDANCE WITH CHAPTER 17 OF ACI 318-88 UNLESS OTHERWISE NOTED.
- ALL REINFORCING STEEL SHALL BE SECURELY TIED IN POSITION PRIOR TO PLACING CONCRETE OR GROUT.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A675.
- LAPS OF WELDED WIRE FABRIC AT SPLICES SHALL BE IN CONFORMANCE WITH ACI 318-88, BUT NOT BE LESS THAN 6 INCHES.
- DOUBLS BETWEEN SUPPORTING FOOTINGS AND WALLS, PLASTERS, OR COLUMNS SHALL BE THE SAME SIZE GRADE, AND AT THE SAME SPACINGS AS THE VERTICAL REINFORCEMENT, UNLESS OTHERWISE NOTED ON THE DETAILS.
- BAR SUPPORTS SHALL BE PROVIDED IN ACCORDANCE WITH THE PROVISIONS OF "BAR SUPPORT SPECIFICATIONS" AS CONTAINED IN THE LATEST EDITION OF THE "MANUAL OF STANDARD PRACTICE" BY THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).
- SEE THE "REINFORCED CONCRETE" NOTES FOR THE REQUIRED CONCRETE COVER FOR CAST-IN-PLACE CONCRETE.
- REINFORCING STEEL DETAILING, BENDING, AND PLACING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MANUAL OF STANDARD PRACTICE" BY CRSI.
- REINFORCING STEEL PLACING DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION OR PLACING. APPROVED DRAWINGS ARE REQUIRED AT THE JOB SITE PRIOR TO THE BEGINNING OF CONSTRUCTION.
- ALL WELDING OF REINFORCING STEEL SHALL BE PERFORMED USING THE ELECTRIC ARC PROCESS IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF THE "CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY. WELDING SHALL BE PERFORMED BY WELDERS HOLDING CURRENT CERTIFICATES ACCEPTABLE TO THE REGULATING BUILDING DEPARTMENT. ALL WELDS SHALL UTILIZE LOW HYDROGEN ELECTRODES (E60XX), WHEN WELDING IS REQUIRED. APPROVAL SHALL BE OBTAINED FROM THE ENGINEER FOR THE PROPOSED METHOD AND PROCEDURE. ALSO, FILL THE INSPECTION NON-DESTRUCTIVE TESTING AND CERTIFICATION FROM AN INDEPENDENT TESTING LABORATORY WILL BE REQUIRED. WELDING OF CROSSING BARS AND TACK WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED.

CONCRETE MASONRY UNITS

- CONCRETE BLOCK UNITS SHALL BE MEDIUM WEIGHT, 1600 PSF, FULLY GROUTED 1500 PSF FOR ALL OTHERS, GRADE "N" UNITS CONFORMING TO ASTM C90. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR BLOCK SIZE, FACE, COLOR, JOINTING, ETC.
- BLOCK UNITS SHALL BE SUFFICIENTLY MOIST AT TIME OF LAYING TO PREVENT ABSORPTION OF MOISTURE AND GROUT.
- BLOCK UNITS SHALL BE FREE OF ALL SUBSTANCES WHICH MIGHT IMPAIR THE BOND OF THE BLOCK TO THE MORTAR AND GROUT.
- MORTAR SHALL BE TYPE "M" CONSISTING OF ONE PART CEMENT AND THREE PARTS SAND WITH 1/4 TO 1/2 PART LIME.
- GROUT SHALL BE TYPE "M" CONSISTING OF TWO PARTS PORTLAND CEMENT AND THREE PARTS SAND WITH 1/4 TO 1/2 PART LIME. GROUT SPACE MORE THAN TWO INCHES IN WIDTH MAY BE IN ADDITION TO THE SAND NOT MORE THAN TWO PARTS PEA GRAVEL.
- CEMENT FOR MORTAR AND GROUT SHALL HAVE A LOW ALKALI TYPE CONFORMING TO ASTM C91.
- CEMENT USED IN CONCRETE MASONRY MATERIALS BELOW GRADE SHALL BE TYPE V. MORTAR AND GROUT SHALL HAVE AN ULTIMATE COMPRESSIVE STRENGTH AT AGE 28 DAYS OF 2000 PSI.

OPEN WEB STEEL JOISTS

- OPEN WEB JOISTS JOIST GIRDERS & BRIDGINGS SHALL BE FABRICATED & ERRECTED IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR OPEN WEB STEEL JOISTS & JOIST GIRDERS" OF THE STEEL JOIST INSTITUTE (SJI), LATEST EDITION AND SHALL COMPLY WITH ULCO STANDARD, LATEST EDITION.
- THE MANUFACTURER OF THE OPEN WEB STEEL JOISTS AND GIRDERS SHALL BE A MEMBER OF THE SJI, AND SHALL FURNISH TO THE BUILDING OFFICIAL A CERTIFICATE OF COMPLIANCE INDICATING EQUIPMENT, WORKING STANDARDS AND WHICH ALSO IDENTIFIES THE JOISTS DELIVERED FOR THIS SPECIFIC PROJECT. (PRODUCT NAME AND ADDRESS). SUCH CERTIFICATE OF COMPLIANCE SHALL BE FURNISHED PRIOR TO INSTALLATION.
- JOIST MANUFACTURER SHALL DESIGN THE JOIST SYSTEM AND PROVIDE BRIDGING AS REQUIRED TO ADEQUATELY BRACE THE TOP AND BOTTOM CHORDS AGAINST LATERAL LOADS.
- WELDING OF OPEN WEB JOISTS SHALL COMPLY TO SJI STANDARDS.
- WELDING OF OPEN WEB STEEL JOIST GIRDERS SHALL COMPLY WITH AWS D11 STANDARDS.

WELDING

- ALL WELDING SHALL BE PERFORMED BY WELDERS HOLDING CURRENT CERTIFICATES ACCEPTABLE TO THE ENGINEER AND TO THE REGULATING BUILDING DEPARTMENT.
- ALL WELDED STRUCTURAL STEEL SHALL BEAR THE WELDING BUILDING DEPARTMENT RADIOGRAPHIC OR ULTRASONIC INSPECTION WILL BE REQUIRED.
- ALL WELDING SHALL BE PERFORMED USING THE ELECTRIC ARC PROCESS IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF THE "CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY.
- ALL WELDS SHALL BE CLEANED OF SLAG TO PERMIT VISUAL INSPECTION.

STRUCTURAL STEEL

- STRUCTURAL STEEL, ROLLED SECTIONS, AND PLATE USED IN THE WORK SHALL CONFORM TO THE FOLLOWING:
 - PIPE SHALL BE WELDED SEAMLESS CONFORMING TO ASTM A53, GRADE "B" AND TUBE SHALL BE WELDED SEAMLESS CONFORMING TO ASTM A500, GRADE "C".
 - ALL STRUCTURAL STEEL WHICH WILL BE EXPOSED TO VIEW IN THE COMPLETED STRUCTURE, EXCEPT THAT PORTION TO BE FIELD WELDED, SHALL RECEIVE ONE SHOP COAT OF PAINT. SHOP PAINT SHALL BE ZINC CHROMATE OR APPROVED EQUAL. UNPAINTED EXPOSED AREAS SHALL BE FIELD PRIMED USING SAME PAINT AS SHOP PRIMER.
 - SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION. ANY FABRICATION PERFORMED PRIOR TO RECEIPT OF APPROVED SHOP DRAWINGS SHALL BE PERFORMED AT THE CONTRACTOR'S OWN RISK. FINAL DIMENSIONS USED FOR FABRICATION OF ALL STEEL SHALL BE THE TRUE FIELD DIMENSIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SUPPLY THESE DIMENSIONS TO THE STEEL FABRICATORS.
 - ALL STEEL CONNECTIONS SHALL BE AS DETAILED ON THE DRAWINGS OR DESIGNED PER REVISIONS SHOWN ON THE PLANS. CONNECTIONS SHALL BE STANDARD ALSO. CONNECTIONS (EITHER WELDED OR BOLTED OR A COMBINATION OF THE TWO) OR FABRICATORS ENGINEER MAY PROVIDE ALTERNATE DESIGN OF CONNECTIONS WHERE ALTERNATE CONNECTION DESIGNS ARE DESIRED THEY SHALL BE SUBMITTED BY CONTRACTOR FOR APPROVAL AND SHALL INCLUDE SUBSTANTIATING CALCULATIONS.
 - ALL STRUCTURAL STEEL SHALL BE FABRICATED IN AN I.C.B.O. CERTIFIED SHOP. ANY FABRICATION ACCOMPLISHED IN OTHER THAN A CERTIFIED SHOP MUST HAVE INDICATORS THAT WILL BE USED, OR BOLTS SHALL BE TIGHTENED WITH CALIBRATED TORQUE INDICATORS BY AN INDEPENDENT TESTING LABORATORY. ANY STEEL DELIVERED WHICH WAS NOT FABRICATED BY A CERTIFIED SHOP OR NOT ACCOMPANIED BY A CERTIFICATION, SHALL BE REJECTED, OR 100% NON-DESTRUCTIVE TESTING AND CERTIFICATION BY AN INDEPENDENT TESTING LABORATORY WILL BE REQUIRED PRIOR TO ERECTION.
 - ALL BOLTS SHALL CONFORM TO ASTM A328 UNLESS NOTED OTHERWISE. LOAD INDICATORS WILL BE USED, OR BOLTS SHALL BE TIGHTENED WITH CALIBRATED TORQUE INDICATORS BY AN INDEPENDENT TESTING LABORATORY. THE CONTRACTOR SHALL HAVE A SKIPORE-WELDED HYDRAULIC BOLT TENSION CALIBRATOR ON THE SITE AND ALL UNCRECHES USED FOR TIGHTENING HIGH STRENGTH BOLTS SHALL BE CALIBRATED AT THE START OF EACH WORK SHIFT.

ABBREVIATIONS

AB	ANCHOR BOLT	MECH	MECHANICAL
ALT	ALTERNATE	MET	METAL
APPROX	APPROXIMATE	MIN	MINIMUM
ARCH	ARCHITECTURAL	NBR	NUMBER
BOTT	BOTTOM	NS	NEAR SIDE
CRS	CROSS	O	OVER
BLDG	BUILDING	OC	ON CENTER
CHAN	CHANNEL	OPG	OPENING
CHL	CHLORIDE	OPPT	OPPOSITE
CMU	CONCRETE MASONRY UNIT	OUJ	OPEN WEB JOIST
COL	COLUMN	PSF	POUNDS PER SQUARE FOOT
CONC	CONCRETE	PSI	POUNDS PER SQUARE INCH
CONC	CONNECTION	PT	POINT
CONCT	CONSTRUCTION	REF	REFERENCE
CONT	CONTINUOUS	REQD	REQUIRED
CONTR	CONTRACTOR	SECT	SECTION
DET	DETAIL	SHT	SHEET
DIAG	DIAGONAL	SLV	SHORT LEG VERTICAL
DIAM	DIAMETER	SLH	SHORT LEG HORIZONTAL
DL	DEAD LOAD	SLB	SHORT LEG BACK TO BACK
DIM	DIMENSION	SIM	SIMILAR
DR	DRAIN	SPEC	SPECIFICATIONS
EA	EACH FACE	STIFF	STIFFENER
EB	EACH SIDE	STD	STANDARD
EAH	EACH END	STR	STRUCTURAL
EL	ELEVATION	SQ	SQUARE
EQUIP	EQUIPMENT	THK	THICK
EX	EXISTING	TOP	TOP OF CONCRETE
EXP	EXPANSION	TOP	TOP OF FOOTING
FIN	FINISH	TOJ	TOP OF JOIST
FLG	FLANGE	TOP	TOP OF PARAPET
FND	FOUNDATION	TOS	TOP OF STEEL
FR	FULL PENETRATION	TYP	TYPICAL
FT	FOOT	UNO	UNLESS NOTED OTHERWISE
FTG	FOOTING	VERT	VERTICAL
FS	FACE	W	WITH
GA	GALVANIZED	WT	WEIGHT
GR	GRADE		
GALV	GALVANIZED		
HORIZ	HORIZONTAL		
HT	HEIGHT		
JST	JOIST		
L	LINE		
LOC	LOCATION		
L.L.V.	LONG LEG VERTICAL		
L.L.H.	LONG LEG HORIZONTAL		
L.L.B.	LONG LEG BACK TO BACK		
MISC	MISCELLANEOUS		
MAX	MAXIMUM		
M.B.	MACHINE BOLT		

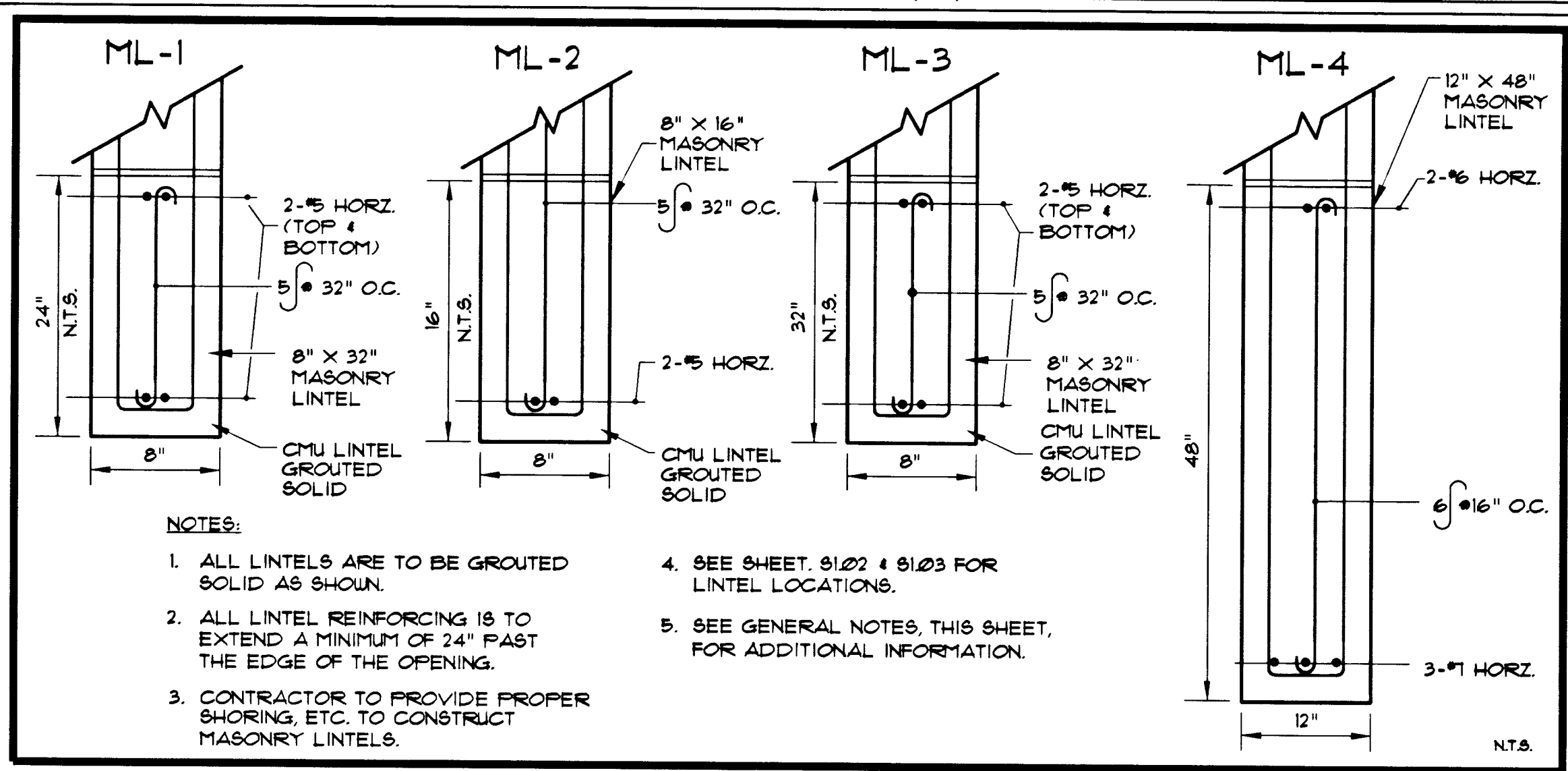
DRAWING INDEX

SHEET NO.	TITLE
0000	GENERAL NOTES, DESIGN CRITERIA, AND SCHEDULES
0101	FOOTING AND FOUNDATION PLAN
0102	LOWER ROOF FRAMING PLAN
0103	UPPER ROOF FRAMING PLAN AND DETAILS
0104	DETAILS
0105	DETAILS
0106	DETAILS
0107	FUEL CANOPY PLAN AND DETAILS
0108	FUEL CANOPY FOUNDATION AND ROOF FRAMING PLAN
0109	DETAILS

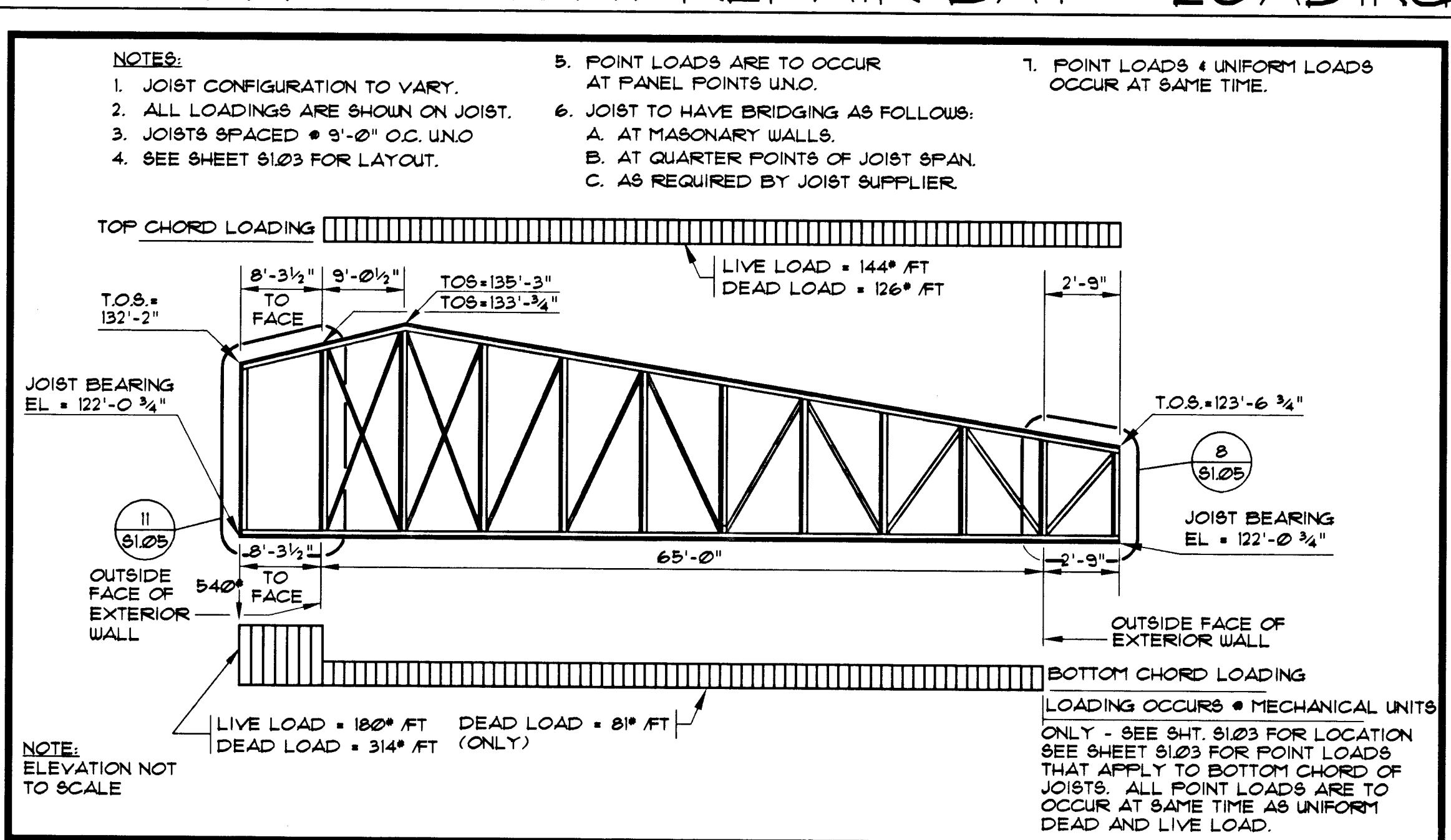
FOOTING SCHEDULE SOIL BEARING VARIES

MARK	FOOTING SIZE W X T X L	LONGITUDINAL REINFORCING		TRANSVERSE REINFORCING		REMARKS <small>NOTE: UNLESS NOTED OTHERWISE, REINFORCEMENT SHALL BE UNDER COLUMNS AND WALLS.</small>
		SIZE	SPACING	SIZE	SPACING	
F1	1'-8" x 10" x CONT.	#4	12"	#4	24"	REINFORCEMENT PLACED IN BOTTOM OF FOOTING
F2	2'-0" x 10" x CONT.	#4	12"	#4	24"	REINFORCEMENT PLACED IN BOTTOM OF FOOTING
F3	2'-0" x 10" x 2'-0"	#4	12"	#4	12"	REINFORCEMENT PLACED IN BOTTOM OF FOOTING
F4	3'-0" x 12" x 2'-0"	#4	12"	#4	12"	REINFORCEMENT PLACED IN BOTTOM OF FOOTING
F5	4'-6" x 14" x 4'-6"	#5	12"	#5	12"	REINFORCEMENT PLACED IN BOTTOM OF FOOTING
F6	5'-6" x 16" x 5'-6"	#6	12"	#6	12"	REINFORCEMENT PLACED IN BOTTOM OF FOOTING
F7	6'-0" x 14" x 6'-0"	#6	12"	#6	12"	REINFORCEMENT PLACED IN TOP AND BOTTOM OF FOOTING
F8	3'-0" x 12" x CONT.	#4	12"	#4	12"	REINFORCEMENT PLACED IN TOP AND BOTTOM OF FOOTING
F9	14'-8" x 24" x CONT.	#1 B	12" B	#1 B	12" B	THICKENED SLAB - REINFORCING PLACED TOP AND BOTTOM OF FTG.
F10	8'-0" x 4'-0" x 8'-0"	#6 B	#6 T	#6 B	12" T	THICKENED SLAB - REINFORCING PLACED TOP AND BOTTOM OF FTG.
F11	8'-0" x 2'-0" x 8'-0"	#6 B	#6 T	#6 B	12" T	THICKENED SLAB - REINFORCING PLACED TOP AND BOTTOM OF FTG.

MASONRY LINTEL SCHEDULE

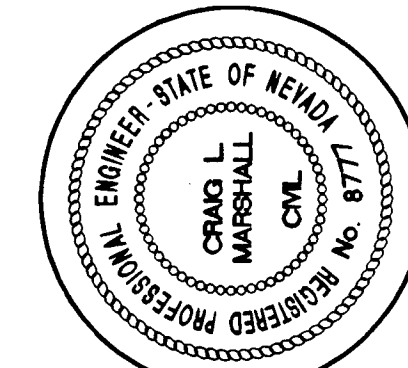


JOIST ELEVATION AT REPAIR BAY - LOADING



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GENERAL NOTES, DESIGN CRITERIA & SCHEDULES

ISSUED FOR CONTRACTOR'S REVISION OF RECORD DRAWINGS

Date: 09.05.95

Sheet No. 21

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