

STRUCTURAL GENERAL NOTES

GENERAL REQUIREMENTS

- THE CONTRACTOR SHALL THOROUGHLY EXAMINE THE DRAWINGS BEFORE BEGINNING ANY WORK. HE SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES, OMISSIONS, OR CONFLICTS HE MAY FIND BETWEEN THE VARIOUS ELEMENTS OF THE DRAWINGS BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.
- THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL SITE CONDITIONS AND DIMENSIONS. HE SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND INFORMATION SHOWN ON THE DRAWINGS BEFORE PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL INVESTIGATE THE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES SUCH AS TANKS, CESSPOOLS, FOUNDATIONS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY CONDITION WHICH IN HIS OPINION MIGHT ENDANGER THE STABILITY OF THE STRUCTURE OR CAUSE DISTRESS TO THE STRUCTURE.
- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. AS A PART OF HIS RESPONSIBILITY, THE GENERAL CONTRACTOR SHALL PROVIDE THE SERVICES OF A NEVADA LICENSED STRUCTURAL ENGINEER TO DESIGN AND SUPERVISE ANY SCAFFOLDING FOR HIS WORKMEN, SUPPORT FOR CONSTRUCTION EQUIPMENT, SHORING OF FORMS AND OTHER ELEMENTS OF CONSTRUCTION AFFECTED BY HIS WORK.
- ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING:
 - THE LATEST EDITION (1991) OF THE UNIFORM BUILDING CODE.
 - ALL CODES AND STANDARDS LISTED ELSEWHERE IN THESE NOTES AND/OR SPECIFICATIONS (ASTM SPECIFICATIONS NOTED SHALL BE THE LATEST EDITION).
 - ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK.
- DESIGN LIVE LOADS:

ROOF	20 PSF (REDUCIBLE)
WIND	75 MPH, EXPOSURE B, I=1.15
SEISMIC	ZONE 2B, I=1.25
- REFER TO OTHER DRAWINGS (ARCHITECTURAL, CIVIL, MECHANICAL, ETC.) FOR INFORMATION NOT COVERED BY THE STRUCTURAL DRAWINGS OR THESE NOTES.
- SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE THE NOTES, DRAWINGS, AND/OR SPECIFICATIONS DIFFER, THE MORE STRINGENT REQUIREMENT SHALL APPLY. DO NOT SCALE DRAWINGS.

SHOP DRAWINGS

- SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS WHERE REQUIRED BY THESE GENERAL NOTES OR BY THE SPECIFICATIONS AND SHALL BE APPROVED BY THE ARCHITECT BEFORE FABRICATION IS STARTED. SUBMITTALS SHALL CONSIST OF TWO BLUE-LINE PRINTS AND ONE REPRODUCABLE SEPIA FOR APPROVAL. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REQUIRE SUBMITTALS IN THIS FORM FROM HIS SUBCONTRACTORS AND SUPPLIERS. AFTER SUBMITTALS HAVE BEEN REVIEWED BY THE ARCHITECT, THE SEPIA WILL BE APPROPRIATELY ANNOTATED AND RETURNED TO THE CONTRACTOR. THE CONTRACTOR, AT HIS OWN EXPENSE SHALL OBTAIN FROM THE SEPIA THE NUMBER OF PRINTS NECESSARY TO SATISFY HIS OWN REQUIREMENTS AND THOSE OF ALL SUBCONTRACTORS INVOLVED.
- THE CONTRACTOR SHALL REVIEW AND APPROVE ALL SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE ARCHITECT. ALL ITEMS NOT IN ACCORDANCE WITH CONTRACT DRAWINGS SHALL BE CLEARLY FLAGGED OR REVISED PRIOR TO SUBMITTAL TO THE ARCHITECT.
- ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM ORIGINAL CONTRACT DRAWINGS, ONLY WHEN CLEARLY FLAGGED OR REQUESTED IN WRITING BY SUBSTITUTING PARTIES, SHALL BE CONSIDERED APPROVED AFTER ARCHITECT'S REVIEW, UNLESS NOTIFIED OTHERWISE.
- THE SHOP DRAWINGS DO NOT REPLACE THE ORIGINAL CONTRACT DRAWINGS. ITEMS OMITTED OR SHOWN INCORRECTLY WHICH ARE NOT FLAGGED BY THE ARCHITECT ARE NOT TO BE CONSIDERED CHANGES TO THE ORIGINAL CONTRACT DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE SURE ITEMS ARE CONSTRUCTED TO ORIGINAL DRAWINGS.
- THE ARCHITECT HAS THE RIGHT TO APPROVE OR DISAPPROVE ANY CHANGES TO THE ORIGINAL DRAWINGS AT ANYTIME BEFORE OR AFTER SHOP DRAWING REVIEW.
- DIMENSIONS INDICATED ON SHOP DRAWINGS ARE NOT REVIEWED UNLESS SPECIFICALLY NOTED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS WITH THE ARCHITECT AND WITH ACTUAL FIELD CONDITIONS.
- THE ADEQUACY OF ENGINEERING DESIGNS AND LAYOUTS PERFORMED BY OTHERS RESTS WITH THE DESIGNING OR SUBMITTING PERSON OR COMPANY.
- REVIEWING IS INTENDED ONLY AS AN AID TO THE CONTRACTOR IN OBTAINING CORRECT SHOP DRAWINGS. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR.

FOUNDATIONS & EXCAVATIONS

- ALL EXCAVATION AND BACKFILLING SHALL BE DONE IN ACCORDANCE WITH CHAPTER 29 OF THE UBC, UNLESS OTHERWISE NOTED.
- A SOILS ENGINEER SHALL INSPECT ALL FOOTING EXCAVATIONS AND FILLS TO VERIFY DEPTHS AND SOIL BEARING CAPACITY PRIOR TO PLACEMENT OF FORMS AND/OR REINFORCING STEEL. SLOPES SHALL BE SHORED OR FLATTENED IF SO DIRECTED BY THE SOILS ENGINEER. THE CONTRACTOR SHALL PROVIDE FOR PROPER DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER, SEEPAGE, ETC.
- ALL BACKFILL WITHIN BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN LAYERS TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D1557 OR AS SPECIFIED IN THE PROJECT GEOTECHNICAL REPORT UNDER THE SUPERVISION OF A SOILS ENGINEER. FLOODING WILL NOT BE PERMITTED.
- ALL FOOTINGS SHALL REST ON MATERIAL CAPABLE OF SUPPORTING MINIMUM BEARING VALUES INDICATED IN PROJECT GEOTECHNICAL REPORT WITHOUT SIGNIFICANT SETTLEMENT.
- ALL ABANDONED FOOTINGS, UTILITIES, ETC., THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED.
- FOOTING ELEVATIONS SHOWN ON PLANS ARE FOR ESTIMATING PURPOSES ONLY AND SHALL BE VERIFIED IN THE FIELD. THE MINIMUM DEPTH TO THE TOP OF ANY FOOTING AT AN EXTERIOR WALL SHALL BE ONE FOOT BELOW THE EXTERIOR GRADE ELEVATION.
- FOR SOIL INFORMATION REFER TO FOUNDATION INVESTIGATION BY CONVERSE CONSULTANTS SOUTHWEST, INC. PROJECT NO. 93-33326-01 DATED 10/19/93 AND ADDENDUM #1 DATED 11/18/93.
- ALL SAND UNDER CONCRETE SLABS ON GRADE SHALL BE CLEAN, COARSE SAND AND SHALL HAVE 16% TO 20% MOISTURE CONTENT BY VOLUME AT TIME OF PLACING CONCRETE.
- ALL GRAVEL SHALL CONFORM TO CLARK COUNTY TYPE II SPECIFICATIONS UNLESS NATIVE MATERIAL IS APPROVED IN WRITING BY THE SOILS ENGINEER. SEE FOUNDATION NOTES FOR COMPACTION.

CONCRETE

- CONCRETE USED IN THE WORK SHALL HAVE 3000 PSI MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT AGE 28 DAYS. SPECIAL INSPECTION IS NOT REQUIRED. ALL PHASES OF WORK PERTAINING TO THE CONCRETE CONSTRUCTION SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318) WITH MODIFICATIONS AS NOTED IN THE DRAWINGS OR SPECIFICATIONS.
- ALL CONCRETE SHALL BE STONE CONCRETE UTILIZING AGGREGATE CONFORMING TO ASTM C33, UNLESS NOTED OTHERWISE. AGGREGATE SIZE SHALL BE WITHIN THE FOLLOWING LIMITS:

SLAB ON GRADE	3/4" MAXIMUM AGGREGATE
FOUNDATIONS	1 1/2" MAXIMUM AGGREGATE
- CEMENT SHALL BE TYPE V CONFORMING TO ASTM C150. MIXING OPERATIONS, ETC. SHALL CONFORM TO ASTM C-94. PLACEMENT SHALL CONFORM TO UBC SECTION 2605 AND PROJECT SPECIFICATIONS.
- ADMIXTURES, IF USED, SHALL CONFORM TO UBC SECTION 2603 (b)5. CALCIUM CHLORIDE SHALL NOT BE USED.
- ALL CONCRETE MIXES SHALL BE DESIGNED BY A CERTIFIED INDEPENDENT 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.
- BEFORE CONCRETE IS 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. DO NOT CUT ANY REINFORCING WHICH MAY CONFLICT WITH SLEEVES OR INSERTS. NOTIFY THE ARCHITECT IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS.
- ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
- CONCRETE SHALL NOT BE FREELY DROPPED MORE THAN THREE FEET.
- ALL CONCRETE SHALL BE PLACED WITH A SLUMP NOT TO EXCEED 4" IN ACCORDANCE WITH ASTM C143. WHERE PUMPING IS APPROVED, THE MAXIMUM SLUMP PRIOR TO ENTERING THE PUMP MAY BE INCREASED TO 5 INCHES.
- MINIMUM CONCRETE COVER OVER REINFORCING STEEL SHALL BE AS FOLLOWS:

A. CONCRETE AGAINST EARTH (UNFORMED)	3"
B. CONCRETE AGAINST EARTH (FORMED)	2"
C. CONCRETE SLAB	1"
- FLOOR SLAB POURS SHALL BE LIMITED TO 500 SQUARE FEET (SECTIONS TO BE APPROXIMATELY SQUARE) OR AS SHOWN ON THE PLANS. A COLD JOINT OR SAW CUT MAY BE USED. WHEN USED, SAW CUT MUST BE PERFORMED WITHIN 7 HOURS AFTER INITIAL SET HAS OCCURED.
- 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:
 - PONDING OR CONTINUOUS SPRINKLING.
 - ABSORPTIVE MAT OR FABRIC KEPT CONTINUOUSLY WET.
 - CURING COMPOUNDS APPLIED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE CURING COMPOUND MANUFACTURER.
- IMMEDIATELY FOLLOWING THE INITIAL CURING AND BEFORE THE CONCRETE HAS DRIED, ADDITIONAL CURING SHALL BE ACCOMPLISHED FOR 7 CONSECUTIVE DAYS BY:
 - CONTINUING THE METHOD USED FOR THE INITIAL CURING.
 - WATERPROOF PAPER.
 - OTHER MOISTURE-RETAINING COVERINGS AS APPROVED.

CONCRETE MASONRY UNITS

- MASONRY UNITS SHALL BE LIGHT WEIGHT, 1500 P.S.I., GRADE "N" UNITS CONFORMING TO THE LATEST ASTM DESIGNATION C-90 AND, IN ADDITION, THE REQUIREMENT OF THE QUALITY CONTROL STANDARDS OF THE CONCRETE MASONRY ASSOCIATION OF CALIFORNIA AND NEVADA.
- BLOCK UNITS SHALL BE SUFFICIENTLY MOIST AT TIME OF LAYING TO PREVENT DEHYDRATION OF MORTAR AND GROUT.
- BLOCK UNITS SHALL BE FREE OF ALL SUBSTANCES WHICH MIGHT IMPAIR THE BOND OF THE BLOCK TO THE MORTAR AND GROUT.
- MORTAR MIX SHALL CONFORM TO REQUIREMENTS FOR U.B.C. TABLE 24-A, TYPE "S" MIX CONSISTING OF ONE PART CEMENT AND THREE PARTS SAND WITH 1/4 TO 1/2 PART LIME. MORTAR SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI AT 28 DAYS.
- GROUT SHALL CONFORM TO REQUIREMENTS OF SECTION 2403 OF U.B.C. FOR COARSE GROUT CONSISTING OF ONE PART CEMENT AND THREE PARTS SAND WITH 1/10 TO 1/15 PART LIME. GROUT SPACE MORE THAN TWO INCHES IN WIDTH MAY HAVE IN ADDITION TO THE SAND NOT MORE THAN TWO PARTS PEA GRAVEL. USE SUFFICIENT WATER FOR GROUT TO FLOW INTO ALL JOINTS OF THE MASONRY WITHOUT SEGREGATION. GROUT SHALL ATTAIN A COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS. ALL CELLS IN CMU WALLS SHALL BE GROUTED SOLID.
- GROUT FOR PUMPING SHALL BE OF FLUID CONSISTENCY AND SHALL HAVE NOT LESS THAN SEVEN SACKS OF CEMENT IN EACH CUBIC YARD OF GROUT. FLUID CONSISTENCY SHALL MEAN THAT THE CONSISTENCY IS AS FLUID AS POSSIBLE FOR POURING WITHOUT SEGREGATION OF THE CONSTITUENT PARTS.
- CEMENT FOR MORTAR AND GROUT SHALL BE A LOW ALKALI TYPE CONFORMING TO ASTM C150. CEMENT USED IN CONCRETE, MASONRY MATERIALS BELOW GRADE SHALL BE TYPE V.
- ALL CELLS IN CONCRETE BLOCKS SHALL BE FILLED SOLID WITH GROUT.
- PROVIDE A MINIMUM OF 1/2 INCH GROUT BETWEEN MAIN REINFORCING AND MASONRY UNITS. MAXIMUM GROUT POUR HEIGHT IS TO BE IN ACCORDANCE WITH TABLE 24G OF THE UBC. HIGH-LIFT GROUTING SHALL NOT BE USED.
- CELLS SHALL BE IN VERTICAL ALIGNMENT. DOWELS IN FOOTINGS SHALL BE SET TO ALIGN WITH CORES CONTAINING REINFORCING STEEL.
- REFER TO ARCHITECTURAL DRAWINGS AND/OR SPECIFICATIONS FOR SURFACE AND HEIGHT OF UNITS, LAYING PATTERN, COLOR, JOINT TYPE, ETC.

REINFORCING STEEL

- REINFORCING STEEL SHALL BE NEW STOCK, DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60 UNLESS NOTED OTHERWISE (GRADE 40 MAY BE USED FOR #3 BARS OR LESS).
- ALL BARS SHALL BE FREE OF RUST, GREASE, MILL SCALE, OR ANY MATERIAL WHICH MIGHT AFFECT THEIR BOND TO CONCRETE.
- ALL BAR BENDS MUST BE MADE COLD. REBENDING OF BARS WILL NOT BE PERMITTED.
- BENDING, PLACING, SPACING, CONCRETE PROTECTIVE COVER, SPLICING, AND ALL OTHER DETAILS OF REINFORCEMENT SHALL CONFORM TO THE "BUILDING CODE REQUIREMENT FOR REINFORCED CONCRETE" A.C.I. 318, CHAPTER 7 AND THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" A.C.I. 315.
- ALL TESTING OF REINFORCING STEEL SHALL BE AS REQUIRED BY LOCAL BUILDING CODE.
- 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 ONE DAY PRIOR TO PLACING REINFORCING.
- ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION IS MADE.
- BAR SPLICES ARE TO BE CLASS "B" IN CONCRETE; 52 BAR DIAMETERS IN C.M.U. UNLESS NOTED OTHERWISE. SPLICES SHALL BE MADE ONLY WHERE INDICATED ON THE DRAWINGS.
- DOWELS BETWEEN FOOTINGS AND WALLS OR PILASTERS SHALL BE THE SAME GRADE, SIZE AND SPACING AS THE VERTICAL REINFORCING, RESPECTIVELY.

STRUCTURAL STEEL

- ALL PHASES OF WORK PERTAINING TO STRUCTURAL STEEL CONSTRUCTION SHALL CONFORM TO THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL STEEL (LATEST EDITION OF THE UNIFORM BUILDING CODE AND TO THE MANUAL OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION).
- STRUCTURAL STEEL, ROLLED SECTIONS, AND PLATE USED IN THE WORK SHALL CONFORM TO ASTM 36.
- 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.
- ALL STRUCTURAL STEEL SHALL BE FABRICATED IN A SHOP THAT HAS BEEN CERTIFIED BY I.C.B.O., A.I.S.C., OR CLARK COUNTY TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. ANY FABRICATION ACCOMPLISHED IN OTHER THAN A CERTIFIED SHOP MUST HAVE CONTINUOUS INSPECTION BY AN INDEPENDENT TESTING LABORATORY AND BE ACCOMPANIED BY A CERTIFICATE OF COMPLIANCE WITH THE DESIGN REQUIREMENTS, STAMPED BY A NEVADA LICENSED PROFESSIONAL ENGINEER. 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.
- SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT 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 BOLTS SHALL CONFORM TO ASTM A325 UNLESS NOTED OTHERWISE. SIZES SHALL BE AS NOTED ON THE DRAWINGS.
- ALL ANCHOR BOLTS SHALL CONFORM TO ASTM A307, UNLESS NOTED OTHERWISE. SIZE SHALL BE AS INDICATED ON THE DRAWINGS.
- ALL GROUT UNDER BEARING PLATES SHALL BE NON-SHRINK GROUT, MASTER BUILDERS MASTERFLOW 715' OR EQUAL.
- ALL WELDING SHALL BE PERFORMED BY WELDERS HOLDING VALID CERTIFICATES AND HAVING CURRENT EXPERIENCE IN THE TYPE OF WELDING SHOWN ON THE DRAWINGS OR NOTES. CERTIFICATES SHALL BE ISSUED BY A TESTING AGENCY APPROVED BY CLARK COUNTY, NEVADA BUILDING DEPARTMENT.

WELDING

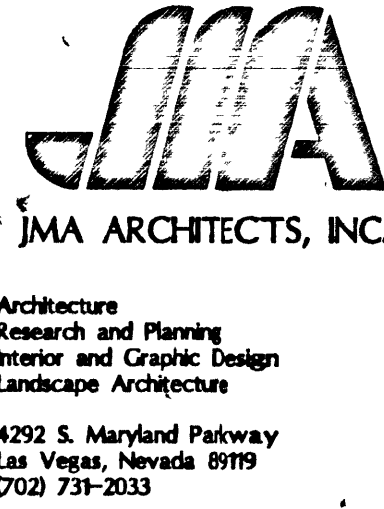
- ALL WELDING SHALL BE PERFORMED BY WELDERS HOLDING CURRENT CERTIFICATES ACCEPTABLE TO THE ARCHITECT AND TO THE REGULATING BUILDING DEPARTMENT. ALL WELDED STRUCTURAL STEEL SHALL BEAR THE WELDERS STAMP OR FULL RADIOGRAPHIC OR ULTRASONIC INSPECTION WILL BE REQUIRED.
- ALL WELDING SHALL BE PERFORMED USING 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 FIELD WELDING MUST HAVE CONTINUOUS INSPECTION, NON-DESTRUCTIVE TESTING, AND CERTIFICATION BY AN INDEPENDENT TESTING LABORATORY AND REQUIRES A STAMP BY A LICENSED NEVADA ENGINEER.
- ALL WELDS SHALL UTILIZE LOW HYDROGEN ELECTRODES (E70XX FOR STRUCTURAL STEEL AND E90XX FOR REINFORCING STEEL), OR OTHER A.W.S. APPROVED EQUIVALENT METHODS.
- ALL WELDS SHALL BE CLEANED OF SLAG TO PERMIT VISUAL INSPECTION.

OPEN WEB STEEL JOISTS

- ALL STEEL JOISTS SHALL BE FABRICATED AND ERECTED PER THE "STEEL JOIST INSTITUTE" SPECIFICATIONS.
- STEEL JOISTS SHALL CONFORM TO THE CURRENT ISSUE OF THE STANDARD SPECIFICATIONS FOR OPEN WEB STEEL JOISTS (K SERIES) AS ADOPTED BY THE STEEL JOIST INSTITUTE AND THE AISC. REFER TO THE DRAWINGS FOR THE TYPE, LOCATIONS, AND ANY MODIFICATIONS REQUIRED.
- STEEL JOISTS SHALL BE DESIGNED AND BRACED FOR THE LIVE AND DEAD LOADS PLUS THE NET WIND UPLIFT CONDITIONS SHOWN ON THE DRAWINGS.
- SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION. ANY FABRICATION DONE PRIOR TO RECEIPT OF APPROVED SHOP DRAWINGS SHALL BE DONE AT THE CONTRACTOR'S OWN RISK.

METAL DECK

- STEEL DECK SHALL BE AS MANUFACTURED BY VEROCO MANUFACTURING COMPANY OR EQUAL. TYPES AND GAGES SHALL BE AS SHOWN ON THE DRAWINGS. ALL SHEETS SHALL BE PRIMER PAINTED AND SHALL CONFORM TO ASTM A611, GRADE C.
- DECK SHALL BE ANCHORED BY WELDING DIRECTLY THROUGH THE BOTTOM OF THE RIB TO ALL STRUCTURAL SUPPORTS AT MAXIMUM SPACING OF 12" ON CENTER. SIDE SEAMS SHALL BE MECHANICALLY FASTENED BETWEEN SUPPORTS AT NOT MORE THAN 1'-0" ON CENTER. REFER TO PLANS FOR COMPLETE DECKING ATTACHMENT INFORMATION.
- SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT 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, CLOSURES, DETAILS OF INSTALLATION, ETC.
- CUTTING AND FRAMING OF OPENINGS NOT SHOWN ON DRAWINGS AS REQUIRED BY OTHER TRADES SHALL BE THE RESPONSIBILITY OF THE TRADE INVOLVED.



Consultants

GB&L CONSULTING ENGINEERS

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The Contractor shall check and verify all dimensions and report all errors and omissions to the office prior to commencing work. These drawings are not to be scaled.

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Seal

Revisions

No.	Date	Description

Date: 11/21/93

Drawn: LWA

Checked: GAB

Project No.: 93115

Project

CITY OF LAS VEGAS

FIRE EQUIPMENT SERVICE CENTER (FESC)

Las Vegas, Nevada 89101

Drawing Title

GENERAL NOTES

Drawing No.

S-1

630-86A

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2. ALL STRUCTURAL STEEL SHALL BE WELDED TOGETHER UNLESS OTHERWISE NOTED.
3. ALL STRUCTURAL STEEL SHALL BE GALVANNEAL UNLESS OTHERWISE NOTED.

CONCRETE

1. ALL CONCRETE SHALL BE 4000 PSI UNLESS OTHERWISE NOTED.
2. ALL CONCRETE SHALL BE CAST IN PLACE UNLESS OTHERWISE NOTED.

STEEL

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WOOD

1. ALL WOOD SHALL BE SYPRESS UNLESS OTHERWISE NOTED.
2. ALL WOOD SHALL BE KILN DRIED UNLESS OTHERWISE NOTED.

FOUNDATION

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2. ALL FOUNDATION SHALL BE 4000 PSI UNLESS OTHERWISE NOTED.

ROOFING

1. ALL ROOFING SHALL BE 30 YEAR GUARANTEE UNLESS OTHERWISE NOTED.
2. ALL ROOFING SHALL BE 18 GAUGE GALVALUME UNLESS OTHERWISE NOTED.

PAINTING & FINISHES

1. ALL PAINTING SHALL BE PRIMER & FINISH UNLESS OTHERWISE NOTED.
2. ALL PAINTING SHALL BE 100% SOLIDS UNLESS OTHERWISE NOTED.

MECHANICAL

1. ALL MECHANICAL SHALL BE 1/2" DIA. UNLESS OTHERWISE NOTED.
2. ALL MECHANICAL SHALL BE 1/4" DIA. UNLESS OTHERWISE NOTED.

ELECTRICAL

1. ALL ELECTRICAL SHALL BE 120V UNLESS OTHERWISE NOTED.
2. ALL ELECTRICAL SHALL BE 15 AMP UNLESS OTHERWISE NOTED.

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INTERNATIONAL
ASSOCIATION
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AND STRUCTURAL
ENGINEERS



AMERICAN
INSTITUTE
OF STEEL
CONSTRUCTION



AMERICAN
CONCRETE
INSTITUTE



AMERICAN
WOOD
COUNCIL



AMERICAN
ROAD & BUILDERS
BUILDERS ASSOCIATION



AMERICAN
SOCIETY
OF CIVIL
ENGINEERS



AMERICAN
SOCIETY
OF MECHANICAL
ENGINEERS



AMERICAN
SOCIETY
OF HEATING,
REFRIGERATING
& AIR-CONDITIONING
ENGINEERS



AMERICAN
SOCIETY
OF PROFESSIONAL
ENGINEERS

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1000