

MISCELLANEOUS

- CONTRACTOR SHALL VERIFY CONDITIONS IN THE FIELD AND IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER OF ANY CONDITIONS NOT AS ASSUMED. HE SHALL TAKE FIELD MEASUREMENTS AS REQUIRED AND BE RESPONSIBLE FOR THE SAME.
- CONTRACTOR SHALL COORDINATE WITH ALL RELATED TRADES FOR DETAILING, FABRICATION AND ERECTION PRIOR TO SUBMITTING SHOP DRAWINGS FOR APPROVAL.
- ALL STRUCTURAL WORK SHALL BE COORDINATED WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, ETC. REQUIREMENTS. DISCREPANCIES AND/OR INTERFERENCES SHALL BE REPORTED TO THE ARCHITECT/ENGINEER IMMEDIATELY.
- NO OPENINGS SHALL BE MADE IN ANY STRUCTURAL MEMBER UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS OR AFTER APPROVAL FROM THE STRUCTURAL ENGINEER.

CONCRETE

- CONCRETE SHALL BE NORMAL WEIGHT HAVING A MINIMUM 28 DAY DESIGN COMPRESSIVE STRENGTH AS FOLLOWS:
 - SLABS, EQUIPMENT PADS 4000 PSI
- NORMAL WEIGHT CONCRETE SHALL HAVE A MAXIMUM DRY UNIT WEIGHT OF 150 PCF.
- ALL EXTERIOR CONCRETE SHALL HAVE A MAXIMUM WATER-CEMENT RATIO (W/C) LESS THAN OR EQUAL TO 0.45 AND 6% AIR ENTRAINMENT.
- CONCRETE REINFORCING SHALL CONFORM TO THE FOLLOWING DESIGNATIONS:
 - DEFORMED BARS ASTM A615, GRADE 60
 - WELDED WIRE FABRIC ASTM A185
- LAP DEFORMED BARS 30 BAR DIAMETERS UNLESS NOTED OTHERWISE. HOOKS SHALL BE STANDARD HOOKS. UNO. LAP WELDED WIRE FABRIC SUCH THAT THE OVERLAP OF THE OUTERMOST CROSS-WIRES OF EACH ADJOINING SHEET IS NOT LESS THAN THE SPACING OF THE CROSS-WIRES PLUS TWO IN. UNO.

STRUCTURAL STEEL

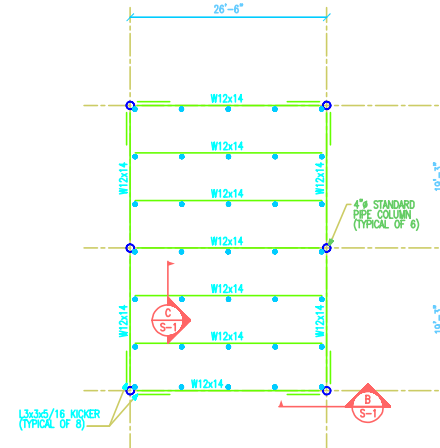
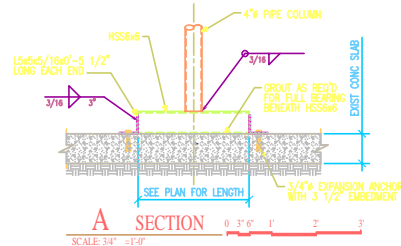
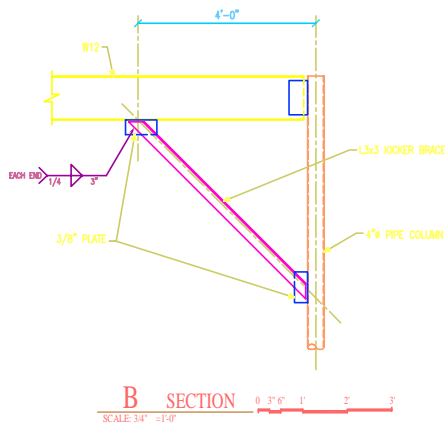
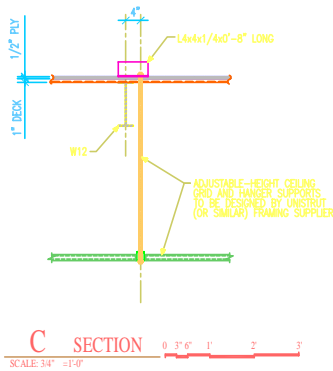
- STRUCTURAL STEEL FABRICATION, ERECTION AND CONNECTION DESIGN SHALL CONFORM TO AISC ASD SPECIFICATIONS FOR THE DESIGN, FABRICATIONS AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING DESIGNATIONS:
 - W & WT SHAPES ASTM A992, UNO
 - CHANNELS ASTM A36, UNO
 - ANGLES ASTM A36, UNO
 - RECTANGULAR & SQUARE HSS ASTM A500 GRADE B, UNO
 - ROUND HSS ASTM A500 GRADE B, UNO
 - STEEL PIPE ASTM A53 GRADE B
 - STEEL PLATES ASTM A36, UNO
 - STEEL BARS ASTM A36, UNO
- BOLTS SHALL BE MINIMUM 3/4" DIAMETER AND SHALL CONFORM TO THE FOLLOWING DESIGNATIONS: UNO.
 - HIGH STRENGTH BOLTS ASTM A325 OR A490
 - ANCHOR BOLTS ASTM F1554, Grade 36
 - STANDARD FASTENERS ASTM A307
- WELDING ELECTRODES AND FLUXES SHALL CONFORM TO ONE OF THE SPECIFICATIONS OF THE AMERICAN WELDING SOCIETY LISTED IN STRUCTURAL WELDING CODE - STEEL, AWS D1.1. ELECTRODES SHALL HAVE A MINIMUM TENSILE STRENGTH OF 70 KSI.
 - IF PARTS JOINED BY FILLET WELDS ARE SEPARATED BY MORE THAN 1/16 IN. OF THE FILLET WELD SHALL BE INCREASED BY THE AMOUNT OF THE ROOT OPENING. ROOT OPENING SHALL NOT EXCEED 3/16 IN.
 - GROUT UNDER STEEL PLATES SHALL HAVE A MINIMUM DESIGN COMPRESSIVE STRENGTH OF 5000 PSI.
 - HIGH STRENGTH BOLTED CONNECTIONS SHALL BE FULLY PRE-TENSIONED, UNO.

METAL DECKING

- METAL DECKING SHALL CONFORM TO THE FOLLOWING DESIGNATIONS:
 - FORM DECK ASTM A611 GRADE C MIN.
- SPECIFIED FORM DECK HAS BEEN DESIGNED TO BE CONTINUOUS OVER 3 SPANS MINIMUM. FOR ONE OR TWO SPAN CONDITIONS, FURNISH HIGHER GAGE DECK IF REQUIRED TO SUPPORT APPLICABLE LOADS.
- METAL DECK SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES PER FOOT WIDTH:
 - 1" FORM DECK, UNIFORM, 24 GA. $I = 0.056$ $S = 0.036$ "
- FASTEN DECK TO STEEL SUPPORTS, AND FASTEN SIDE LAPS OF ADJACENT DECK UNITS IN ACCORDANCE WITH STEEL DECK INSTITUTE STANDARDS.

LOAD LIMITATIONS

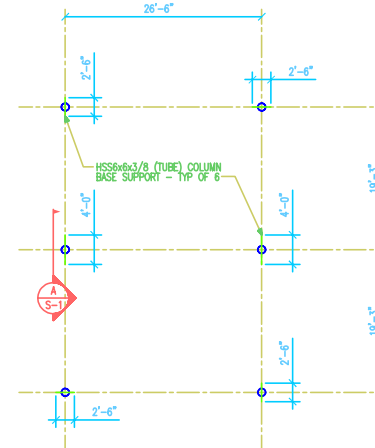
- CONSTRUCTION ACTIVITIES SHALL NOT EXCEED THE FOLLOWING LOAD LIMITATIONS:
 - MEZZANINE PLATFORM 50 PSF
- CONSTRUCTION LOADS IMPOSED BY EQUIPMENT OR OTHER CONSTRUCTION ACTIVITY SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR APPROVAL.



MEZZANINE FRAMING PLAN

MEZZANINE PLAN NOTES

- MEZZANINE FLOOR CONSTRUCTION TO BE 1" DEEP 24 GAGE METAL FORM DECK WITH 1/2" PLYWOOD DECKING.
- TOP OF METAL DECK TO BE 15'-7" ABOVE EXISTING CONCRETE GRADE SLAB.
- SUGGESTED HANGER LOCATIONS FOR ADJUSTABLE-HEIGHT CEILING GRID BELOW ARE INDICATED. THIS ADJUSTABLE-HEIGHT CEILING GRID TO BE CONSTRUCTED WITH UNISTRUT (OR SIMILAR) TYPE FRAMING SYSTEM. CEILING GRID FRAMING LAYOUT, MEMBER SIZES AND CONNECTION DETAILS, AS WELL AS DETAILS FOR VERTICAL ADJUSTABILITY, SHALL BE DESIGNED BY SUSPENDED FRAMING SYSTEM SUPPLIER.
- MEZZANINE FLOOR LOADING TO BE LIMITED TO NO MORE THAN 10 PSF. CEILING GRID LOADING TO BE LIMITED TO NO MORE THAN 5 PSF.



MEZZANINE COLUMN BASE SUPPORT PLAN

NOTES

- ORIENTATION OF COLUMN BASE SUPPORT MEMBERS VARIES.

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND SPACING OF ALL MEMBERS OR CONDITIONS. NO VARIATIONS OR MODIFICATIONS TO SHOP DRAWINGS SHALL BE ACCEPTED WITHOUT PRIOR WRITTEN APPROVAL. ALL DIMENSIONS SHALL BE TO UNLESS OTHERWISE SPECIFIED. THE LATEST REVISION, ALL CORRECTED WORK SHALL BE THE PROPERTY OF MORRISON HERSHFIELD CONTRACTORS.

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0	9.19.03	PRELIMINARY SKETCHES
	No. Date	Action



RTKL

RTKL ASSOCIATES, INC.
901 SOUTH BOWER STREET, BALTIMORE, MD 21201-3300
Tel: (410) 637-8000 Fax: (410) 278-2138



1000 MORELAND RD. BLDG. ATLANTA, GA 30316-3299
Tel: (404) 623-0000 Fax: (404) 624-8800



Project: CEETHERM LAB
575 14TH STREET
ATLANTA, GEORGIA 30332-0620

Drawing Title:
STRUCTURAL PLANS
AND DETAILS

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Drawn By:	Date:
Drawing File:	Checked By:
	Client Approval

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S-1