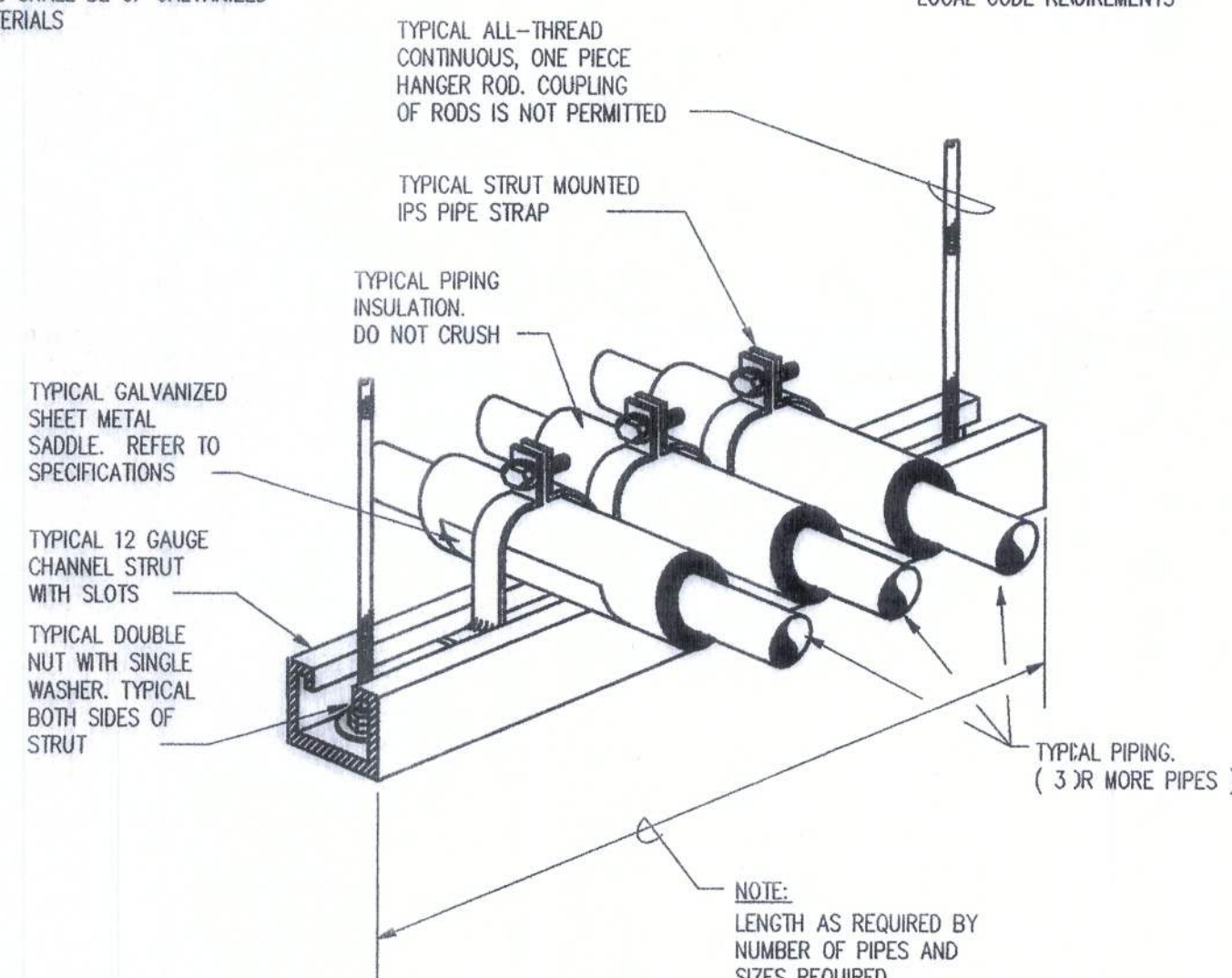


PARTIAL MECHANICAL FLOOR PLAN - NEW

SCALE 1/4" = 1'-0"

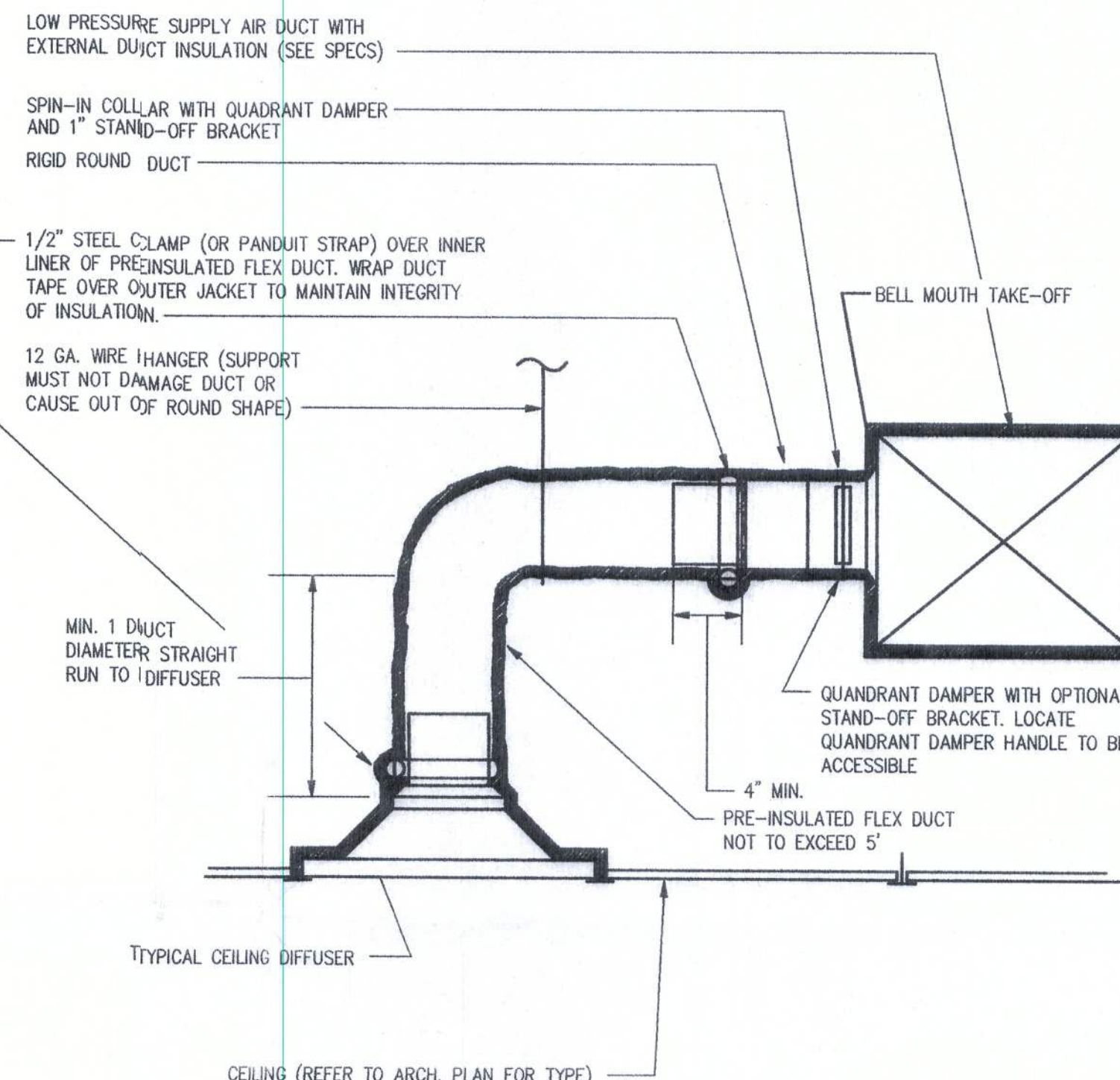
NOTE:

- HANGER ROD, STRUT, NUTS, WASHER, AND PIPE STRAPS SHALL BE OF GALVANIZED PLATED MATERIALS



MULTIPLE PIPING STRUT HANGER DETAIL

DETAIL
NO SCALE



DETAIL TYPICAL DUCT CONNECTION

NO SCALE

MARK	EVAPORATOR UNIT							CONDENSOR UNIT		MANUFACTURER	MODEL
	SUPPLY CFM	COOLING CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	ELEC. REHEAT (KW/STAGES)	FAN MOTOR (HP/NO.)	SIP (IN. WG)	ELEC. VOLTAGE	FULL LOAD AMP.	ELEC. VOLTAGE		
CRAC-1	5,650	118.3	108.7	15/3	3/1	.715	480/3/60	4.2	480/3/60	LIEBERT	V125AUAAEO/CDF165-A

REMARKS:

- FIRESTAT
- STANDARD MICROPROCESSOR CONTROL
- NON-LOCKING EVAPORATOR DISCONNECT
- UNDERFLOOR WATER DETECTION (2) LIQUIDTECT

5. HIGH STATIC MOTOR

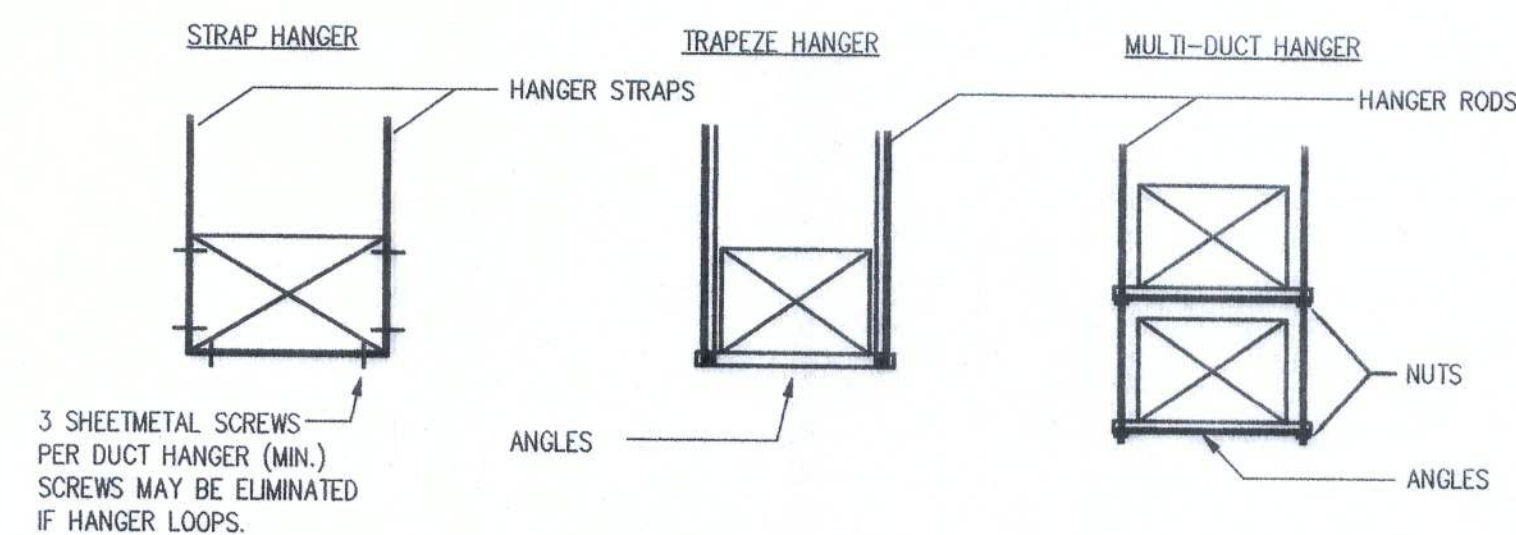
GENERAL NOTES

- ALL MECHANICAL SYSTEMS ARE TO BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE SECTIONS OF THE NFPA STANDARDS, ANSI STANDARDS, THE LOCAL BUILDING CODE, PLANS AND SPECIFICATIONS.
- ALL MATERIALS SHALL BE NEW AND ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE LOCAL CODES, PRODUCT APPROVAL, RULES AND ORDINANCES. ANY DAMAGED EQUIPMENT SHALL BE REPLACED OR RESTORED TO ORIGINAL CONDITION.
- THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, ACCESS PANELS, CONTROL SYSTEMS, DEVICES, PERMITS AND SERVICES NECESSARY FOR FURNISHING AND INSTALLING A COMPLETE SERVICEABLE MECHANICAL SYSTEM.
- ALL LOUVERS, GRILLES, PIPING, ETC. SHALL BE PAINTED TO MATCH SURROUNDING COLOR AND TEXTURES AS REQUIRED BY ARCHITECT. VERIFY COLOR AND TEXTURE WITH ARCHITECT. PAINT ALL EXPOSED MECHANICAL EQUIPMENT WITH BENJAMIN MOORE EPOXY ENAMEL 182.
- ALL CUTTING, PATCHING, STRUCTURAL STEEL, WEATHER PROOFING, PAINTING, AND WALL OPENINGS SHALL BE BY THE GENERAL CONTRACTOR.
- ALL OPENINGS IN BUILDING STRUCTURE FOR DUCTWORK, PIPING, ETC. TO BE 1/2" LARGER (ON ALL SIDES) THAN THE OUTSIDE DIMENSIONS. FILL VOIDS WITH FIRE RETARDANT SILICONE FOAM (I.E., CHASE-FOAM CTC PR-855 BY CHASE TECHNOLOGY CORP.)
- BUILDING HVAC CALCULATIONS ARE BASED ON THE FOLLOWING:
A. INDOOR DESIGN - SUMMER 75°F DB/50% RH, WINTER 70°F DB.
B. OUTDOOR DESIGN - SUMMER 94°F DB/76°F WB, WINTER 37°F DB.
- PROVIDE FLEXIBLE DUCT CONNECTORS, RATED AS REQUIRED, TO ALL FANS, A/C UNITS, OR MECHANICAL EQUIPMENT, EXCEPT HOOD EXHAUST FANS.

DUCTWORK & ACCESSORIES NOTES

- ALL DUCTWORK TO BE SHEET METAL.
A. SUPPLY - SHEET METAL WITH INSULATION.
- ALL DUCTWORK AND DIFFUSERS SHALL BE RATED FOR THE USE, PRESSURE AND TEMPERATURE SPECIFIED AND AS REQUIRED BY THE CEILING SYSTEM RATING.
- ALL DUCTWORK SHALL BE BUILT AND INSTALLED IN ACCORDANCE WITH "SMACNA" STANDARDS AND LOCAL BUILDING CODES.
- ALL DUCT SIZES ARE CLEAR INSIDE DIMENSIONS.
- SEAL ALL DUCTS, JOINTS AND BEAMS IN AN APPROVED MANNER AND INSURE AGAINST LEAKAGE.
- INSULATION FOR DUCT SYSTEMS
INSULATE WITH A MINIMUM OF 2 INCH THICK FIBERGLASS BLANKET WRAP APPLIED OVER CLEAN, DRY SHEET METAL DUCTWORK INSTALLED TO ALLOW MAXIMUM FULLNESS AT CORNERS (AVOID EXCESSIVE COMPRESSION). ADHERE DUCT INSULATION TO METAL AND PROVIDE CONTINUITY OF VAPOR RETARDANT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WHERE DUCT WIDTH EXCEEDS 24 INCHES, THE INSULATION SHALL BE ADDITIONALLY SECURED TO THE BOTTOM OF THE DUCT USING MECHANICAL FASTENERS SPACED 1 FOOT ON CENTER TO PREVENT SAGGING OF THE INSULATION.

DUCTWORK INSULATION SHALL BE INORGANIC FIBROUS GLASS, FLEXIBLE BLANKET OF GLASS FIBER FACTORY LAMINATED TO A REINFORCED FOIL KRAFT (FRK) VAPOR RETARDANT WITH A MINIMUM 2 INCH TAPING AND STAPLING FLANGE ON ONE EDGE. SUITABLE FOR OPERATION AT TEMPERATURES FROM 40 DEGREES F. TO 250 DEGREES F. THERMAL CONDUCTIVITY OF 0.31 AT 75 DEGREES F. MINIMUM DENSITY



MINIMUM RECTANGULAR DUCT HANGER SIZES					
MAXIMUM DUCT WIDTH	MAXIMUM SPACING	WIRE SIZE	ROD SIZE	STRAP SIZE	TRAPEZE SIZE
24	10'-0"	10 GAUGE	---	1"x22 GAUGE	1x1x16 GAUGE
58	10'-0"	---	3/8"	1"x18 GAUGE	1x1x1/8
77	10'-0"	---	3/8"	1"x16 GAUGE	1.5x1.5x1/8
96	10'-0"	---	1/2"	1-1/2"x16 GAUGE	1.5x1.5x1/4
134	10'-0"	---	1/2"	1-1/2"x16 GAUGE	2.5x2.5x1/8
154	8'-0"	---	1/2"	1-1/2"x16 GAUGE	2.5x2.5x3/16
155	---	---	---	---	---

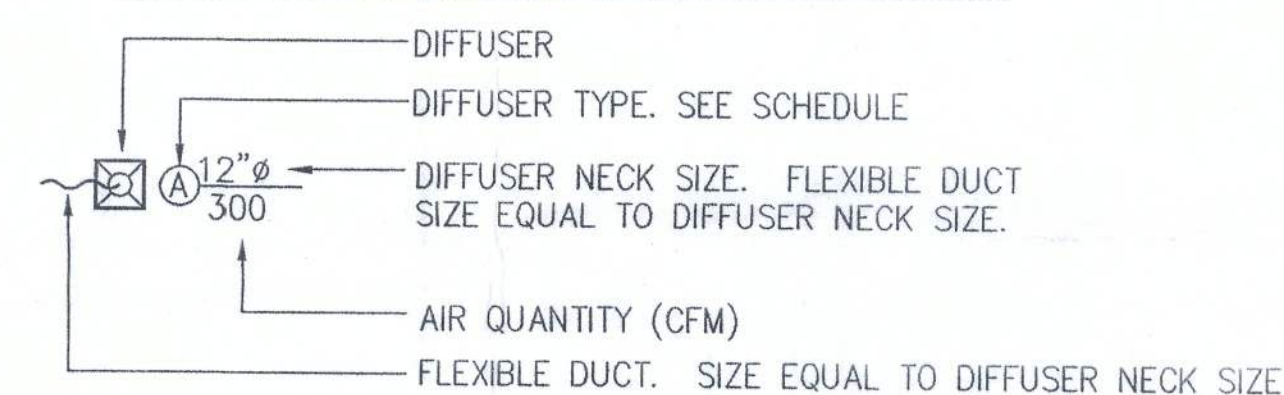
NOTES:

- STRAPS ARE GALVANIZED STEEL; RODS ARE UNOATED OR GALVANIZED STEEL; WIRE IS BLACK ANNEALED, BRIGHT BASIC OR GALVANIZED STEEL. ALL ARE ALTERNATIVES.
- TABLE ALLOWS FOR CONVENTIONAL WALL THICKNESS, AND JOINT SYSTEMS PLUS ONE LB/SF OF INSULATION WEIGHT. IF HEAVIER DUCTS ARE TO BE INSTALLED, ADJUST HANGER SIZES TO BE WITHIN THEIR LOAD LIMITS.
- WHEN STRAP HANGERS ARE LAP JOINED USE THE MINIMUM FASTENERS:
1"x 18, 20, 26 GAUGE 2-#10 OR 1-1/4" BOLT
1"x 16 GAUGE 2-1/4" BOLTS
1"x 14 GAUGE 2-3/8" BOLTS
- REFER TO SMACNA HVAC CONSTRUCTION STANDARDS FOR ADDITIONAL INFORMATION.

DETAIL RECTANGULAR DUCT HANGERS

NO SCALE

AIR DISTRIBUTION LEGEND



AIR DISTRIBUTION SCHEDULE

TYPE	DESCRIPTION
(A)	24X24 SQUARE LOUVERED FACE DIFFUSER WITH ROUND NECK. TITUS MODEL TMS-AA. COLOR: WHITE
(B)	
(C)	
(D)	
(E)	
(F)	

DATE: 9/18/06	SCALE: AS NOTED	DATE: 9/18/06	SCALE: AS NOTED
DRWN. BY: REM	APP'D BY: REM	DRWN. BY: REM	APP'D BY: REM
SHEET METAL CONTR		SHEET METAL CONTR	
MECHANICAL ENGINEER DAVID D. BOREE		MECHANICAL ENGINEER DAVID D. BOREE	
522 Stockton Street Jacksonville, FL 32204 Phone (904) 584-7902 Fax (904) 584-7902 David D. Boree, P.E. Registration # 35846		522 Stockton Street Jacksonville, FL 32204 Phone (904) 584-7902 Fax (904) 584-7902 David D. Boree, P.E. Registration # 35846	
ENGINEER/DESIGN		ENGINEER/DESIGN	
ASSOCIATED ENGINEERING CONSULTANTS, Inc.		ASSOCIATED ENGINEERING CONSULTANTS, Inc.	
JOB NAME:	NEW TELECOMMUNICATIONS ROOM FOR CLIENT LOGIC	JOB NAME:	NEW TELECOMMUNICATIONS ROOM FOR CLIENT LOGIC
JOB NUMBER:		JOB NUMBER:	
CONTRACT SHEET NO.:	1	CONTRACT SHEET NO.:	1
W.W. GAY SHEET NO.:	1 OF 1	W.W. GAY SHEET NO.:	1 OF 1
CAD FILE NAME:	M101.DWG	CAD FILE NAME:	M101.DWG
DRAFTING JOB NUMBER:		DRAFTING JOB NUMBER:	
DRAWING NUMBER:	M101	DRAWING NUMBER:	M101

9.19.06