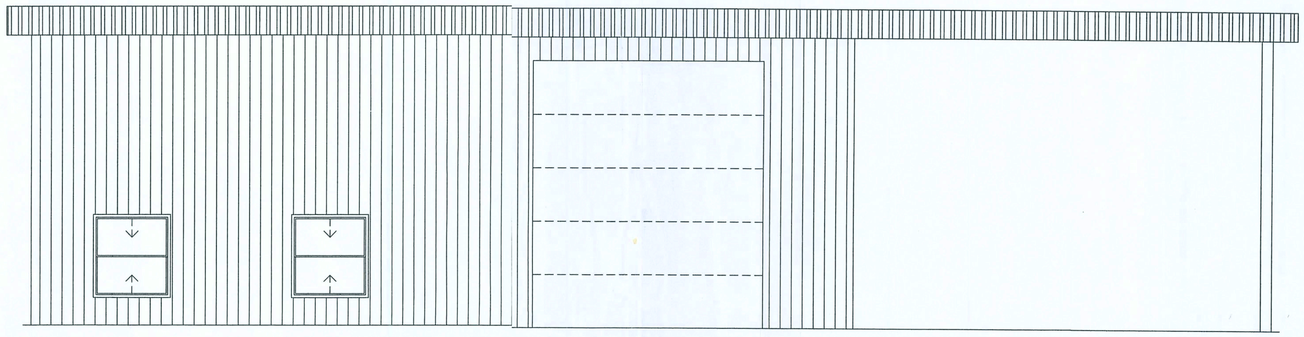
ACTION SIGN & GRAPHICS



NEW OFFICE CONSTRUCTION
COLUMBIA COUNTY, FL.

APPLICABLE CODES

2004 FLORIDA BUILDING CODE

OCCUPANCY CLASS

CLASS B BUSINESS & CLASS S-2 LOW HAZARD STORAGE

TYPE OF CONSTRUCTION

TYPE 5, UNPROTECTED

OCCUPANCY LOAD/EGRESS REQUIREMENTS

BUSINESS AREA 100 GROSS SQ. FT / OCCUPANT x 938.5 SQ. FT. = 9 OCCUPANTS

STORAGE AREA 100 GROSS SQ. FT / OCCUPANT x 1427 SQ. FT. = 14 OCCUPANTS

CONSTRUCTION DOCUMENTS

THE CUSTOMER IS RESPONSIBLE FOR DELIVERING THE REQUIRED SETS OF CONSTRUCTION DOCUMENTS TO THE PERMIT ISSUING AUTHORITIES, FOR THE ISSUANCE OF CONSTRUCTION PERMITS. THE CONTRACTOR SHALL REVIEW THE CONSTRUCTION DOCUMENTS AND VERIFY ALL DIMENSIONS. ANY DISCREPANCIES SHALL BE REPORTED TO YOUR SALES REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF ANY WORK OR FABRICATION OF ANY MATERIALS.

DO NOT SCALE OFF THESE PLANS

AMPLE DIMENSIONS ARE SHOWN ON THE PLANS TO LOCATE ALL ITEMS. SIMPLE ARITHMETIC MAY BE USED TO DETERMINE THE LOCATIONS OF THOSE ITEMS NOT DIMENSIONED.

GTC DESIGN GROUP, LLC.
STRUCTURAL/CIVIL ENGINEERS

P.O. Box 187
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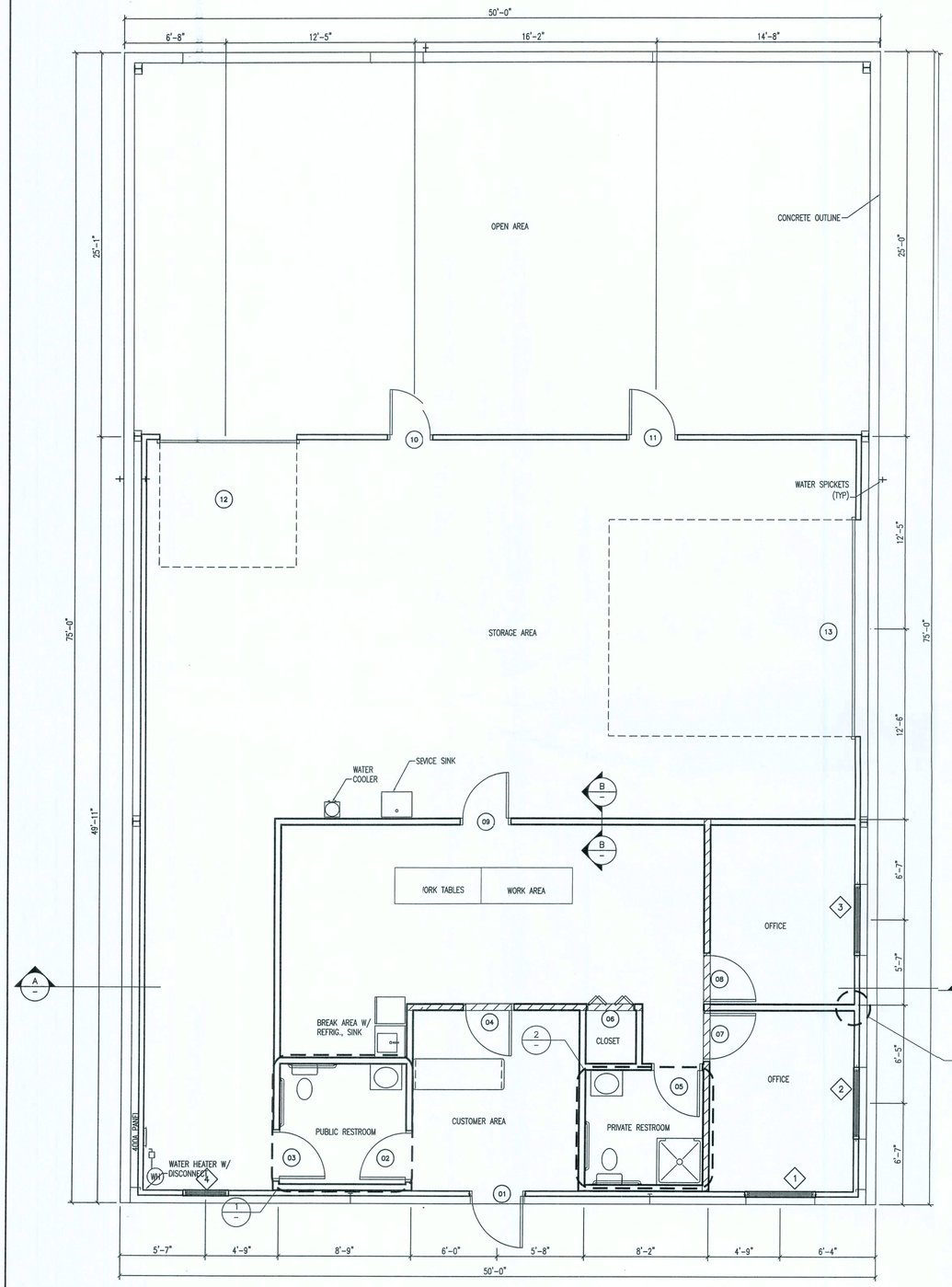
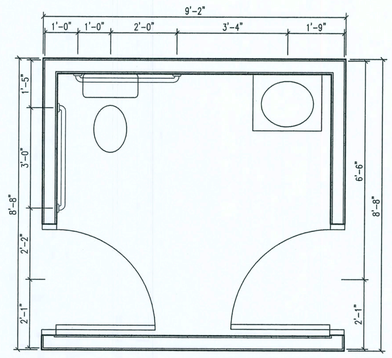
Fax: (386) 362-6133
Gary Gill, PE
Auth. # 9461

INDEX

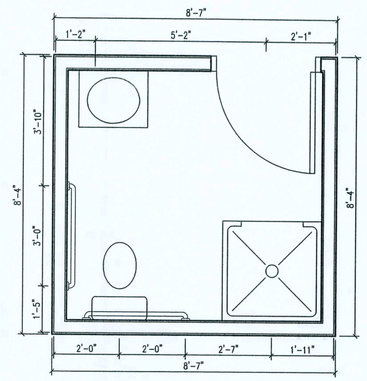
4/19/06



FLOOR PLAN
1/4" = 1'-0"



PUBLIC RESTROOM DETAIL 1
1/2" = 1'-0"



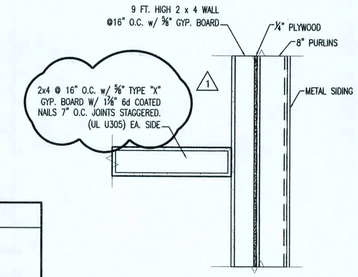
PRIVATE RESTROOM DETAIL 2
1/2" = 1'-0"

WINDOW SCHEDULE

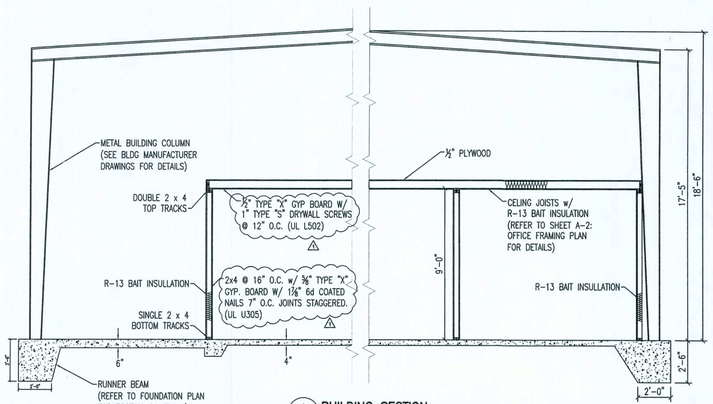
MARK	SIZE WIDTH	SIZE HEIGHT	TYPE	MATERIAL	NOTES
1	4'-8"	5'-0"	--	--	--
2	4'-8"	5'-0"	--	--	--
3	4'-8"	5'-0"	--	--	--
4	3'-0"	5'-0"	--	--	--

DOOR AND FRAME SCHEDULE

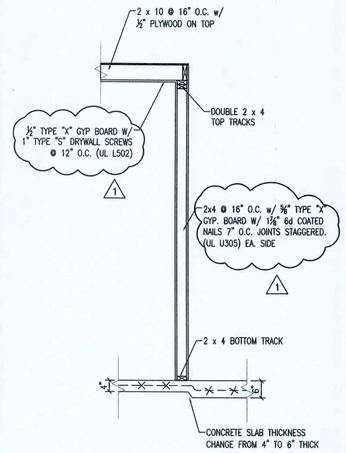
MARK	DOOR SIZE WD	DOOR SIZE HGT	DOOR SIZE THK	DOOR MATL	DOOR GLAZING	DOOR LOUVER WD	DOOR LOUVER HGT	FRAME MATL	FRAME EL	FRAME DETAIL HEAD	FRAME DETAIL JAMB	FRAME DETAIL SILL	FIRE RATING LABEL	HARDWARE SET NO	HARDWARE KEYSIDE RM NO	NOTES
1	3'-0"	7'-0"	1 3/4"	--	--	0"	0"	--	--	--	--	--	--	--	--	--
2	3'-0"	6'-8"	1 3/4"	--	--	0"	0"	--	--	--	--	--	--	--	--	--
3	3'-0"	6'-8"	1 3/4"	--	--	0"	0"	--	--	--	--	--	--	--	--	1-HR RATED FIRE DOOR
4	3'-0"	6'-8"	1 3/4"	--	--	0"	0"	--	--	--	--	--	--	--	--	--
5	3'-0"	6'-8"	1 3/4"	--	--	0"	0"	--	--	--	--	--	--	--	--	--
6	3'-0"	6'-8"	1 3/4"	--	--	0"	0"	--	--	--	--	--	--	--	--	--
7	3'-0"	6'-8"	1 3/4"	--	--	0"	0"	--	--	--	--	--	--	--	--	--
8	3'-0"	6'-8"	1 3/4"	--	--	0"	0"	--	--	--	--	--	--	--	--	--
9	3'-0"	6'-8"	1 3/4"	--	--	0"	0"	--	--	--	--	--	--	--	--	1-HR RATED FIRE DOOR
10	3'-0"	6'-8"	1 3/4"	--	--	0"	0"	--	--	--	--	--	--	--	--	--
11	3'-0"	6'-8"	1 3/4"	--	--	0"	0"	--	--	--	--	--	--	--	--	--
12	9'-0"	8'-0"	1 3/4"	--	--	0"	0"	--	--	--	--	--	--	--	--	--
13	14'-0"	16'-0"	1 3/4"	--	--	0"	0"	--	--	--	--	--	--	--	--	--



WALL DETAIL 3
1" = 1'-0"



A BUILDING SECTION
1/4" = 1'-0"



B SECTION
1/2" = 1'-0"

4/10/06

7-Apr-06

REV#	DATE	REVISION NOTES
-		-

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Auth. # 9461

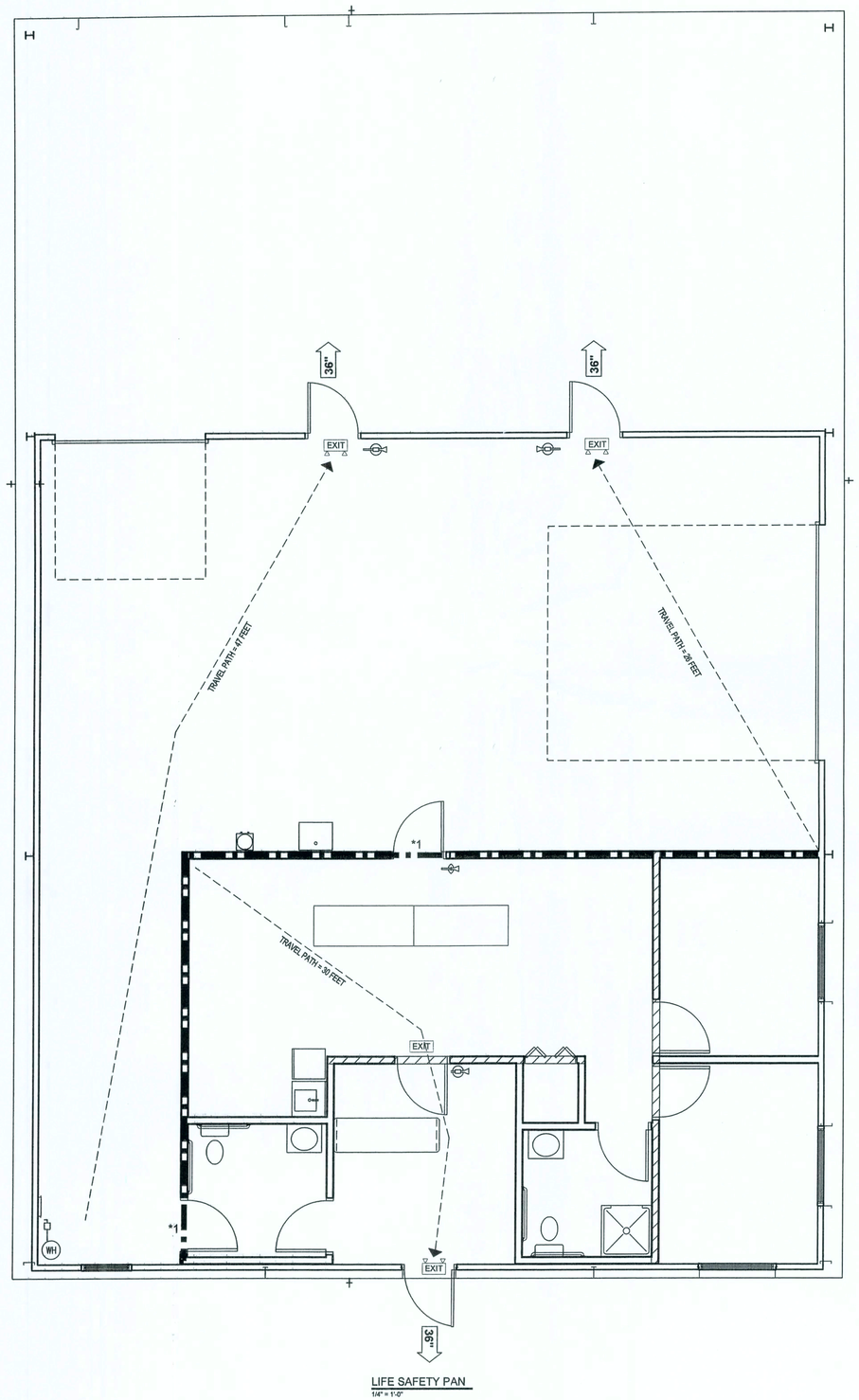
ACTION SIGN & GRAPHICS
COMMERCIAL SITE
LAKE CITY, FL

FLOOR PLAN

PROJECT NUMBER PF05-365
DRAWN BY TK
CHECKED BY GG

A-1.0

SHEET #### ####



LIFE SAFETY PAN
1/4" = 1'-0"

1-HR RATED WALL	
FIRE EXTINGUISHER	
EXIT	EMERGENCY EXIT
EXIT	EXIT SIGN
36"	36" = 180 OCCUPANTS

***NOTES**

*1 - 1-HOUR RATED DOOR

DAMPERS NEED TO BE ADDED TO DUCTS AT FIRE WALLS

MAXIMUM LENGTH - COMMON PATH OF TRAVEL - 75 FEET
"WORST CASE" COMMON PATH OF TRAVEL - 47 FEET

ADA ACCESSIBILITY GUIDLINES

(1) DOORS:

DOORWAYS SHALL HAVE A MINIMUM CLEAR OPENING OF 32" WITH THE DOOR OPEN 90 DEGREES, MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP.

(2) DOOR HARDWARE:

HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. LEVER-OPERATED MECHANISM, PUSH TYPE MECHANISM, AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS.

(3) DRINKING FOUNTAINS AND WATER COOLERS:

SPOUTS SHALL BE NO HIGHER THAN 30" MEASURED FROM THE FLOOR OR GROUND SURFACE TO THE SPOUT LOCATION.

(4) TOILET STALL:

FOR SIZE AND ARRANGEMENT SEE ADA TOILET STALL DIAGRAM.

(5) LAVATORIES AND MIRRORS:

LAVATORIES SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO HIGHER THAN 34" ABOVE THE FINISHED FLOOR. PROVIDE A CLEARANCE OF AT LEAST 29" FROM THE FLOOR TO THE BOTTOM APRON.

HOT WATER AND DRAIN PIPES SHALL BE INSULATED OR OTHERWISE COVERED.

FAUCETS SHALL BE LEVER-OPERATED, PUSH-TYPE, AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS.

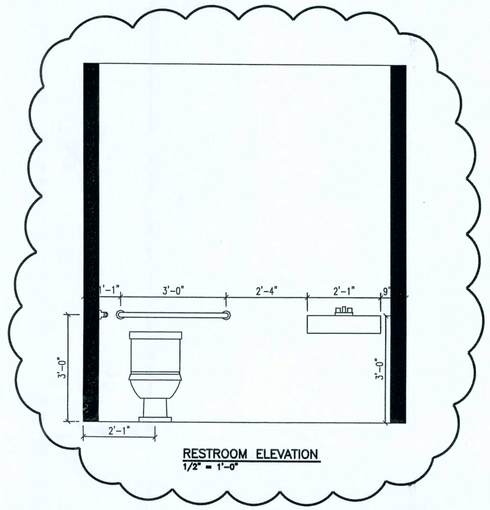
MIRRORS SHALL BE MOUNTED WITH THE BOTTOM OF THE REFLECTING SURFACE NO HIGHER THAN 40" FROM FLOOR.

(6) RAMPS:

THE LEAST POSSIBLE SLOPE SHALL BE USED FOR ANY RAMP. THE MAXIMUM SLOPE OF A RAMP IN NEW CONSTRUCTION SHALL BE 1:12. THE LANDING LENGTH SHALL BE A MINIMUM OF 60" CLEAR. HANDRAILS SHALL BE PROVIDED ALONG BOTH SIDES OF RAMP SEGMENTS. THE CLEAR SPACE BETWEEN THE HANDRAIL AND THE WALL SHALL BE 1 1/2". GRIPPING SURFACES SHALL BE CONTINUOUS. THE TOP OF HANDRAILS GRIPPING SURFACES SHALL BE MOUNTED BETWEEN 30" AND 34" ABOVE RAMP SURFACE.

(7) CONTROLS AND OPERATING MECHANISMS:

CONTROLS AND MECHANISMS SHALL BE OPERATTED BY ONE HAND AND SHALL NOT REQUIRED TIGHT GRASPING, PINCHING, OR TWISTING OF WRIST.



RESTROOM ELEVATION
1/2" = 1'-0"

1

7-Apr-06

REV #	DATE	REVISION NOTES
-		-

REVISION NOTES

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Auth. # 9461

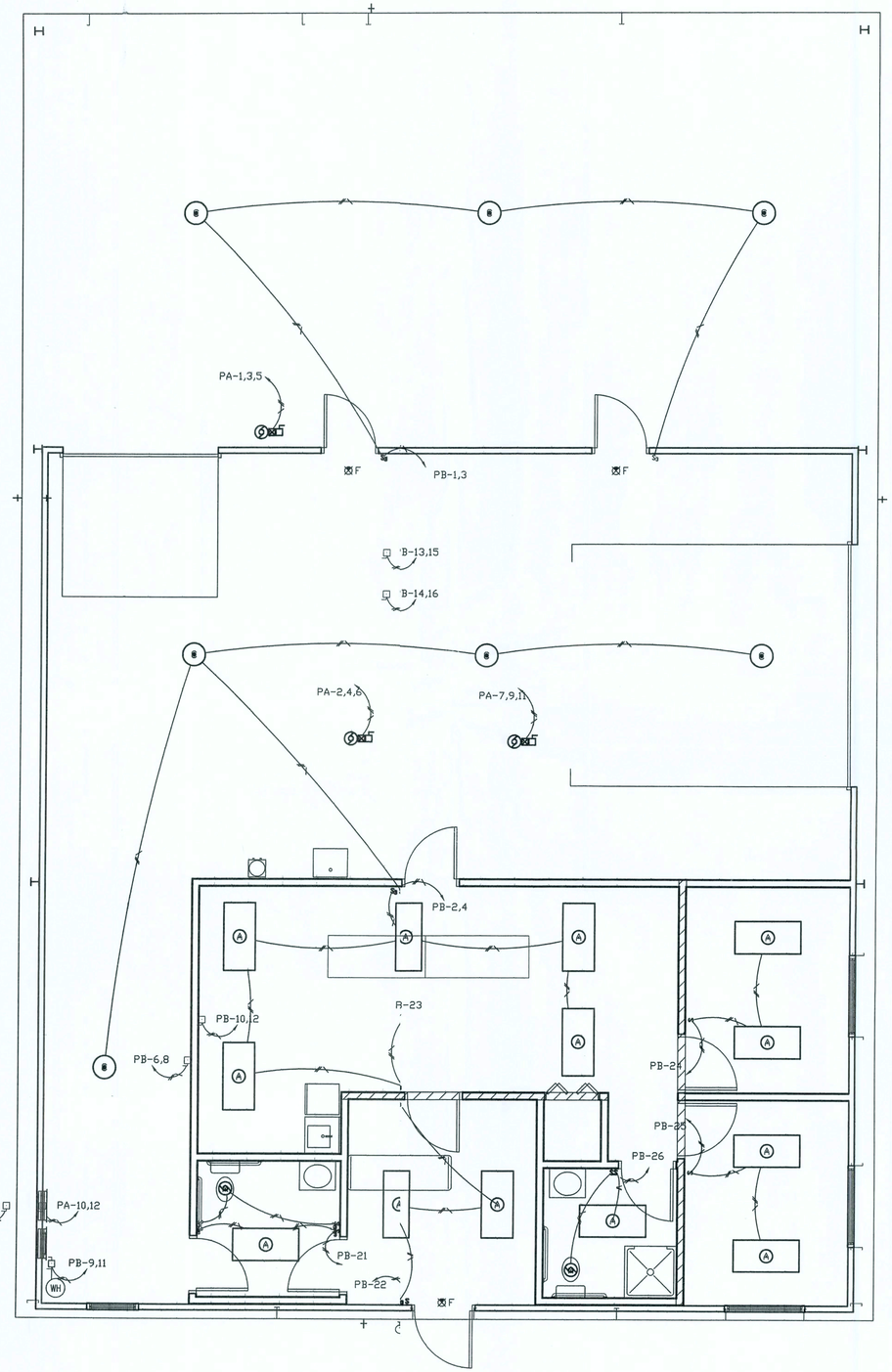
ACTION SIGN & GRAPHICS
COMMERCIAL SITE
LAKE CITY, FL

LIFE SAFETY

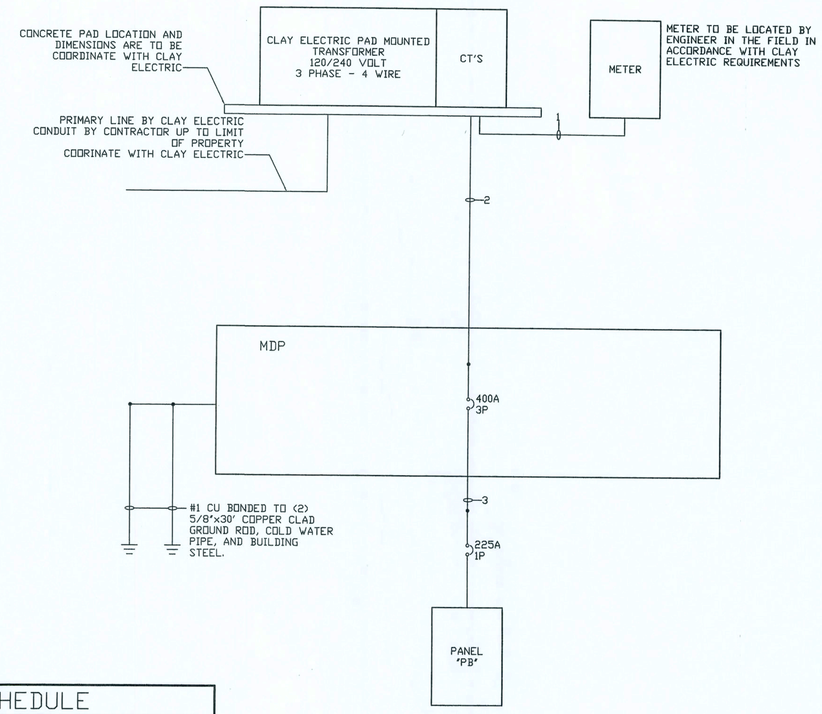
PROJECT NUMBER PF05-365
DRAWN BY T.K.
CHECKED BY G.G.

A-5.0

SHEET #### ####



ELECTRICAL LEGEND		
SYMBOL	QUANTITY	DESCRIPTION
	4	28"Ø LOW BAY LUMINAIRE
S	10	SINGLE POLE SWITCH
S3	2	3-WAY SWITCH
	15	48" FLUORESCENT LIGHT
	1	EXTERIOR LIGHT



LIGHTING FIXTURE SCHEDULE

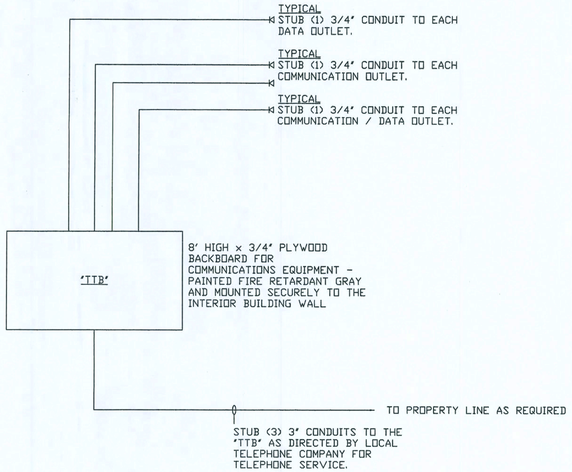
QTY.	I.D	MANUFACTURER	MODEL NO.	VOLTAGE	REQUIRED LAMPS NUM.	TYPE	MOUNTING
1	C	Lithonia	IB 632L GEB10IS	120	6	T8	Ceiling
1	F	Lithonia	--	120	3	LED	Ceiling

POWER RISER DIAGRAM - 120/240V, 3P, 4W

ALL WIRING SHALL BE COPPER TYPE THHN UNLESS OTHERWISE NOTED.

POWER RISER NOTES:

A. CONTRACTOR SHALL CONTACT UTILITY COMPANY PERSONNEL AS NECESSARY FOR NEW SERVICE COORDINATION. CONTRACTOR SHALL OBTAIN UTILITY CO. REQUIREMENTS AND BE RESPONSIBLE FOR ALL WORK NECESSARY TO INSTALL NEW SECONDARY SERVICE AS INDICATED.
B. CONTRACTOR SHALL PROVIDE AND INSTALL ALL TAP LUGS IN SERVICE WIREWAY AND ANY ADDITIONAL EQUIPMENT REQUIRED FOR TERMINATION OF NEW SECONDARY SERVICE CONDUCTORS. CONTRACTOR SHALL VERIFY EXACT ROUTE OF SECONDARY CONDUCTORS IN FIELD TO LOCATION OF NEW DISCONNECTS AND PANELS. CONTRACTOR SHALL PERFORM ALL WORK NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM.
C. PROVIDE INTEGRATED SERIES RATING OF 65,000 RMS SYM AMPS AT 240VAC. AND ANY ADDITIONAL EQUIPMENT REQUIRED FOR TERMINATION OF NEW SECONDARY



TYPICAL COMMUNICATIONS SYSTEM RACEWAY RISER DIAGRAM

WIRE LEGEND	
①	1 - 1.5" CONDUIT
②	(2 SETS) 4-#300MCM - 4" CONDUIT
③	4-#400MCM, 1- #4 BOND- 4" CONDUIT

10-Apr-06

REV#	DATE	REVISION NOTES
REV#	REVISION NOTES	

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Autn. # 9461

ACTION SIGN & GRAPHICS
COMMERCIAL SITE
LAKE CITY, FL

ELECTRICAL PLAN

PROJECT NUMBER: PF05-365
DRAWN BY: T.K.
CHECKED BY: G.G.

E-1.0

SHEET #### ####

Electrical PA Schedule

VOLTS/PHASE/WIRE	PANEL SIZE & TYPE	MAIN SIZE & TYPE	CABINET	MIN SCC	FED FOM	NOTES
240/3/4	400A	400A			Clay lectric	

CIRCUIT NO.	TRIP AMPS	NO. POLES	AREA SERVED	PHASE LOAD VA A	B	C	AREA SERVED	NO. POLES	TRIP AMPS	CIRCUIT NO	CONN. LOAD VA	CONN. LOAD AMPS	DEMAND FACTOR	EST. LOAD. VA	EST. LOAD. AMPS
1,3,5	60	3	Compressor	4800							4800	20.0	100%	4800	20.0
				1600			Lathe	3	20	2,4,6	1600	6.7	100%	1600	6.7
	60				4800						4800	20.0	100%	4800	20.0
					1600				20		1600	6.7	100%	1600	6.7
	60					4800					4800	20.0	100%	4800	20.0
						1600			20		1600	6.7	100%	1600	6.7
7,9,11	30	3	Shear	2400							2400	10.0	100%	2400	10.0
							EMPTY								
	30				2400						2400	10.0	100%	2400	10.0
					27000		Sub Panel – PB	2	225	10,12	27000	112.5	100%	27000	112.5
	30					2400					2400	10.0	100%	2400	10.0
						27000			225		27000	112.5	100%	27000	112.5
			EMPTY												
							EMPTY								
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			EMPTY												
							EMPTY								
			CONNECTED LOAD	8800	35800	35800	= 80400				80400	335.0	100%	80400	335.0

LOAD CATEGORY	CONNECTED LOAD VA	DEMAND FACTOR	ESTIMATED LOAD VA
Standard	80400	100%	80400
TOTAL	80400	100%	80400

Electrical PB Schedule

VOLTS/PHASE/WIRE	PANEL SIZE & TYPE	MAIN SIZE & TYPE	CABINET	MIN SCC	FED FDM	NOTES
240/1/						

CIRCUIT NO.	TRIP AMPS	NO. POLES	AREA SERVED	PHASE LOAD VA A	B	C	AREA SERVED	NO. POLES	TRIP AMPS	CIRCUIT NO	CONN. LOAD VA	CONN. LOAD AMPS	DEMAND FACTOR	EST. LOAD. VA	EST. LOAD. AMPS
1,3	30	2	Warehouse Light	249							249	1.0	100%	249	1.0
				332			warehouse Light	2	30	2,4	332	1.4	100%	332	1.4
	30				249						249	1.0	100%	249	1.0
					332				30		332	1.4	100%	332	1.4
5,7	40	2	ACU	4800							4800	20.0	100%	4800	20.0
				6000			AHU	2	50	6,8	6000	25.0	100%	6000	25.0
	40				4800						4800	20.0	100%	4800	20.0
					6000				50		6000	25.0	100%	6000	25.0
9,11	20	2	WaterHeater	2500							2500	10.4	100%	2500	10.4
				2500			Range	2	50	10,12	2500	10.4	100%	2500	10.4
	20				2500						2500	10.4	100%	2500	10.4
					2500				50		2500	10.4	100%	2500	10.4
13,15	50	2	Welder	6000							6000	25.0	100%	6000	25.0
				6000			Welder	2	50	14,16	6000	25.0	100%	6000	25.0
	50				6000						6000	25.0	100%	6000	25.0
					6000				50		6000	25.0	100%	6000	25.0
17,19	20	2	Pump	750							750	3.1	100%	750	3.1
				0				2	20	18,20	0	0.0	0.0	0	0.0
	20				750						750	3.1	100%	750	3.1
					0				20		0	0.0	0.0	0	0.0
21	20	1	Lights/Recp	114							114	1.0	125%	142	1.2
				224			Lights/Recp	1	20	22	224	1.9	125%	280	2.3
23	20	1	Lights/Recp		560						560	4.7	125%	700	5.8
					224		Lights/Recp	1	20	24	224	1.9	125%	280	2.3
25	20	1	Lights/Recp	224							224	1.9	125%	280	2.3
				114			Lights/Recp	1	20	26	114	1.0	125%	142	1.2
27	20	1	Lights/Recp		0						0	0.0	0.0	0	0.0
					0		Lights/Recp	1	20	28	0	0.0	0.0	0	0.0
29	20	1	Lights/Recp	0							0	0.0	0.0	0	0.0
				0			Lights/Recp	1	20	30	0	0.0	0.0	0	0.0
31	20	1	Lights/Recp		0						0	0.0	0.0	0	0.0
					0		Lights/Recp	1	20	32	0	0.0	0.0	0	0.0
33	20	1		0							0	0.0	0.0	0	0.0
				0				1	20	34	0	0.0	0.0	0	0.0
35	20	1			0						0	0.0	0.0	0	0.0
					0			1	20	36	0	0.0	0.0	0	0.0
			EMPTY												
							EMPTY								
			EMPTY												
							EMPTY								
			EMPTY												
							EMPTY								
			CONNECTED LOAD	29807	29915	0	= 59722				59722	254.9	101%	60086	258.0

LOAD CATEGORY	CONNECTED LOAD VA	DEMAND FACTOR	ESTIMATED LOAD VA
Standard	58266	100%	58266
125%	1456	125%	1820
TOTAL	59722	101%	60086

10-Apr-06

GENERAL ELECTRICAL NOTES:

THE ELECTRICAL INSTALLATION SHALL COMPLY WITH THE N.E.C. & ALL STATE & LOCAL CODES.

WHETHER FURNISHED BY THE ELECTRICAL CONTRACTOR OR BY OTHERS, THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONNECTION OF ELECTRICAL EQUIPMENT MENTIONED IN THIS SECTION OR NOTED ON THE DRAWINGS.

ALL WIRING DEVICES SHALL BE IVORY WITH SMOOTH IVORY PLASTIC PLATES, UNLESS OTHERWISE NOTED. PLATES FOR UNFINISHED AREAS SHALL BE SHEET STEEL OR CAST METAL.

ALL WIRING INCLUDING LOW VOLTAGE AND COMUNICATION TO BE IN CONDUIT.

ELECTRICAL CONTRACTOR SHALL FURNISH ALL JUNCTION BOXES, CONDUIT, WIRE, & CONNECTIONS TO WIRE ALL EQUIPMENT, DEVICES AND LIGHTING.

THE CONTRACTOR SHALL CONTRACT OWN VENDOR TO WIRE AND CABLE TELEPHONE COMMUNICATIONS. AND DATA SERVICES CONNECTIONS AT ALL PANELBOARD(S), CIRCUIT BREAKERS, POWER OUTLETS, CONVENIENCE OUTLETS, AND SWITCHES SHALL BE MADE FOR A COMPLETE AND OPERABLE SYSTEM.

THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER WIRING AND UNIT DISCONNECT SWITCHES FOR ALL HVAC EQUIPMENT UNLESS OTHERWISE STATED ON PLANS.

THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL HVAC CONTROL WIRING. FINAL CONTROL CONNECTIONS SHALL BE BY THE HVAC CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL VERIFY VOLTAGE, PHASE, AND CURRENT CHARACTERISTICS OF ALL HVAC EQUIPMENT BEFORE INSTALLATION OF ANY CONDUIT WIRE, DISCONNECTS, ETC.

LOCATE ALL OUTLETS AS INDICATED ON PLANS WITH MOUNTING HEIGHTS AS SHOWN. COORDINATE INSTALLATION WITH OTHER EQUIPMENT. SECURE OUTLETS TO STRUCTURE. ALL CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET. AVOID UNNECESSARILY SPLICING.

ALL ELECTRICAL EQUIPMENT UNDER THIS CONTRACT SHALL BE LISTED AND CONFORM TO THE APPLICABLE REQUIREMENTS OF THE LATEST EDITION OF THE FOLLOWING PUBLICATIONS:
(1) UNDERWRITER'S LABORATORIES, INC. - U.L.
(2) NATIONAL FIRE PROTECTION ASSOCIATION - NFPA
(3) NATIONAL ELECTRICAL MANUFACTURER'S ASSOC. - NEMA
(4) NATIONAL ELECTRICAL CODE - NEC

SHEET METAL BOXES SHALL BE STANDARD TYPE WITH KNOCKOUT MADE OF HOT DIPPED GALVANIZED STEEL AS MANUFACTURED BY STEEL CITY, RACO, OR EQUAL

ALL CIRCUITS TO BE 2 #12, #12 GND UNLESS NOTED.

PANELBOARDS SHALL CONSIST OF COMPLETE DEAD FRONT ASSEMBLIES INCLUDING BACK, CAN, BUS BAR, TRIMS AND DOORS, SHEET METAL CABINET SWITCHING AND OVER CURRENT DEVICES. CIRCUIT BREAKERS SHALL BE MOLDED CASE, THERMAL-MAGNETIC QUICK-MAKE, AND QUICK BREAK TYPE WITH TRIP-FREE HANDLE. MULTI-POLE TYPE WITH INTERNAL COMMON TRIP BAR. CIRCUIT BREAKER SHALL BE SWITCH RATED AND BOLT ON TYPE. SQUARE "D" TYPE NQOB OR EQUAL BE G.E., SIEMENS, & SQUARE D.

PROPERLY IDENTIFY ALL SWITCH AND DEVICES WITH A PLASTIC NAMEPLATE.

USE ONLY APPROVED LUBRICANT FOR WIRE PULLING PURPOSES.

SUPPORT OF ALL LIGHT FIXTURES SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. LIGHT FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE. LAY-IN LIGHT FIXTURES SUPPORTED ENTIRELY BY CEILING GRID SYSTEM SHALL HAVE "HURRICANE" CLIPS FASTENED TO CEILING GRID.

SAFETY SWITCHES AND DISCONNECTS SHALL BE INSTALLED WHERE INDICATED ON PUNS OR WHERE OTHERWISE REQUIRED BY CODE ENFORCING AUTHORITIES. THEY SHALL BE INSTALLED WITH ADEQUATE HAND ACCESS TO AND CLEARANCE FOR OPERATION AND FUSE REPLACEMENT. EACH SWITCH SHALL HAVE ENGRAVED PLASTIC NAMEPLATES INSTALLED THEREON.

DISCONNECT SWITCHES: HEAVY DUTY, ENCLOSED SAFETY SWITCHES, QUICK-MAKE, AND QUICK-BREAK TYPE WITH INTERLOCKED COVER AND TYPE ENCLOSE REQUIRED FOR THE LOCATION. FUSED TYPE SHALL BE EQUIPPED WITH REJECTION TYPE FUSES. SQUARE "D", GE, ITE, CUTLER HAMMER.

ALL EXHAUST FANS SHALL HAVE DISCONNECT SWITCHES.

ALL REMOTE EQUIPMENT ON ROOF OR GROUNDS SHALL HAVE A DISCONNECT SWITCH AT EACH PIECE OF EQUIPMENT.

ALL CONDUITS SHALL BE A MINIMUM OF 1/2" DIAMETER UNLESS OTHERWISE NOTED. ALL HOMERUN CONDUITS SHALL BE A MINIMUM OF 3/4" DIAMETER UNLESS OTHERWISE NOTED. ALL CONDUITS IN SLABS OR UNDERGROUND SHALL BE A MINIMUM OF 3/4" DIAMETER SCHEDULE 40 PVC UNLESS OTHERWISE NOTED.

WIRING DEVICES: ALL DEVICES SHALL BE SPECIFICATION GRADE OF THE SAME MANUFACTURER.

WALL SWITCHES SHALL BE SINGLE POLE 20 AMP 120/277 VOLT, DUPLEX RECEPTACLES SHALL BE 2 WIRE 3 POLE GROUNDED 120 VOLT 20 AMP. RECEPTACLES MOUNTED IN FIRE OR SMOKE RATED WALLS SHALL BE MINIMUM 25" APART.

ALL CONDUITS TO BE 90 DEGREE WHERE PENETRATING FIRE OR SMOKE RATED WALLS SO THEY CAN BE PROPERLY CAULKED.

ALL EXTERIOR RECEPTACLES, JUNCTION BOXES, LIGHTS, AND OTHER DEVICES SHALL BE LISTED FOR OUTDOOR APPLICATION AND SHALL HAVE WEATHER PROOF COVERS.

CIRCUIT NUMBERS ARE FOR IDENTIFICATION ONLY. THE CONTRACTOR WILL BE RESPONSIBLE FOR CORRECTLY PHASING THE CIRCUITS IN THE PANELS. HOMERUNS OF SIMILAR SINGLE PHASE CIRCUITS MAY BE COMBINED IN ONE CONDUIT WITH A COMMON NEUTRAL. ONLY THREE SINGLE PHASE CIRCUITS MAY BE COMBINED IN ANY ONE CONDUIT.

ON COMPLETION OF THE BUILDING, THE CONTRACTOR SHALL BALANCE THE PANEL. PHASE NUMBER OF WIRES MAY NOT BE INDICATED FOR ALL CIRCUITS. ONLY THOSE WHERE CLARIFICATION IS NECESSARY.

THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL WIRES NECESSARY FOR PROPER FUNCTION OF THE SYSTEM WHETHER INDICATED ON PLANS OR NOT.

CONTRACTOR SHALL SECURE ALL PERMITS.

ELECTRICAL DRAWINGS ARE CONSIDERED DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND EXACT LOCATION

ALL SINGLE-PHASE BRANCH CIRCUITS, 120 VOLT LIGHTING, RECEPTACLES, & MOTORS SHALL CONSIST OF PHASE, NEUTRAL &, GROUND CONDUCTOR.

ALL EQUIPMENT GROUND WIRES SHALL BE COPPER AND SIZED AS PER NEC ARTICLE 250.

CONTRACTOR SHALL MATCH EXISTING BUILDING STANDARD FIRE ALARM SYSTEM AND EQUIPMENT AS REQUIRED AND EXTEND NEW FIRE ALARM CIRCUITS FROM THE EXISTING FIRE ALARM CONTROL PANEL TO THE NEW FIRE ALARM DEVICES SHOWN AND CONNECT AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM. CONTRACTOR SHALL PROVIDE RE-CERTIFICATION OF THE FIRE ALARM SYSTEM AS REQUIRED AND IN ACCORDANCE WITH NFPA-72 AND THE LOCAL AUTHORITY HAVING JURISDICTION.

REV #	DATE	REVISION NOTES
-		-

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ACTION SIGN & GRAPHICS
COMMERCIAL SITE
LAKE CITY, FL

ELECTRICAL SCHEDULE AND NOTES

PROJECT NUMBER PF05-365
DRAWN BY T.K.
CHECKED BY G.G.

E-1.1

SHEET #### ####

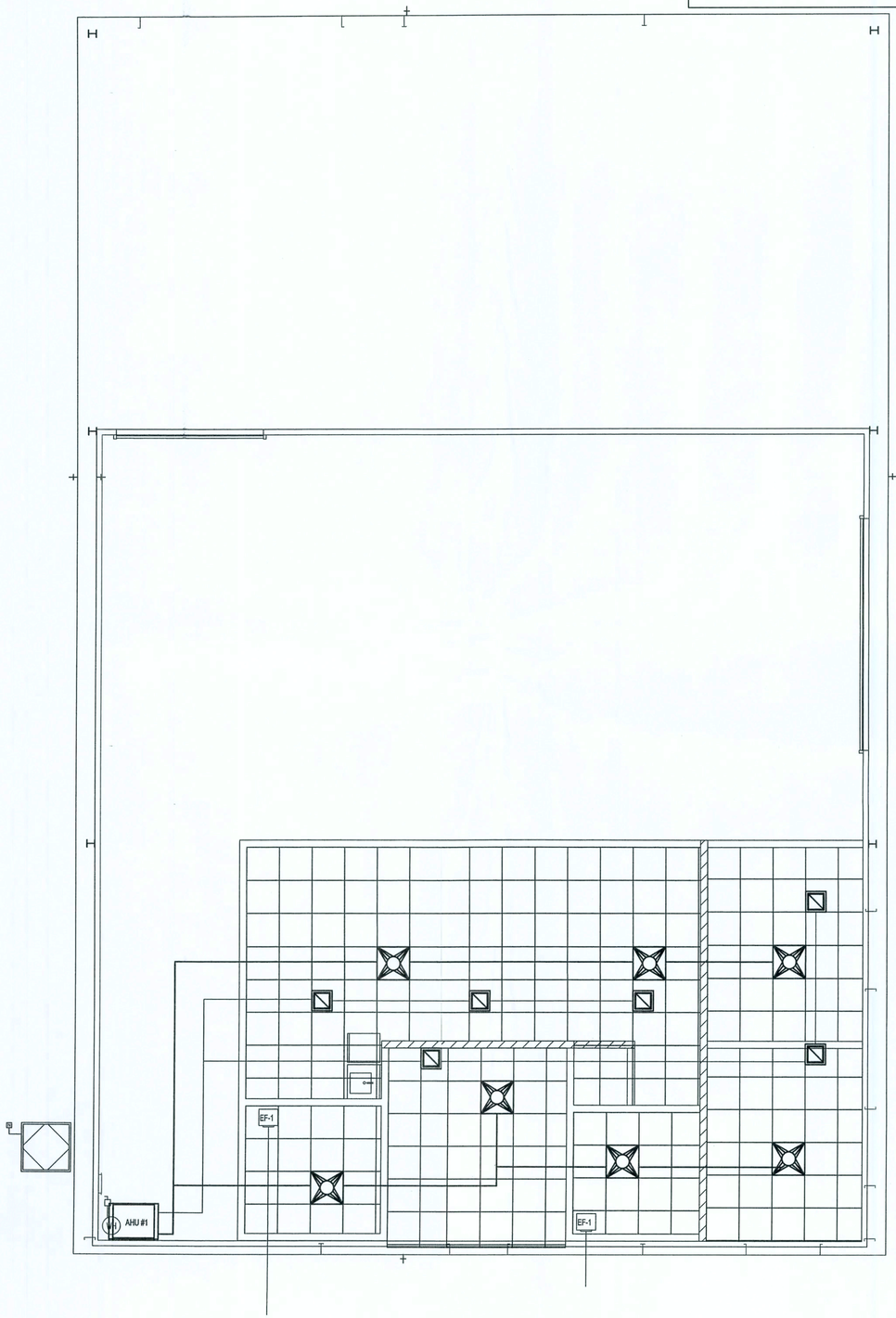
AIR COOLED HEAT PUMP SCHEDULE

CONDENSING UNIT										ELECTRIC HEAT DATA					
CU LABEL(S)	MANUFACTURER & MODEL NO.	TOTAL CAPACITY COOLING	SENSIBLE CAPACITY COOLING	COIL MODEL NO.	COMP. RLA	FAN FLA	VOLTAGE	MOCP	EER / SEER	WEIGHT	TOTAL BTU	D/A CFM	E.S.P.	BLOWER SPEED	FAN HP	VOLTAGE
AHU #1	YORK - MHC	48,000	39,500	28LA008	19.2	1.4	240-1-60	35	10.30 / 14.50	42 LBS.	12,000	430	0	HIGH	2.4 HP	240-1-60

GENERAL NOTES:
- ALL RATINGS ARE AT ARI ENTERING CONDITIONS UNLESS OTHERWISE NOTED.
- PROVIDE VIBRATION ISOLATION FOR UNITS.
- EXTERNAL STATIC PRESSURE DOES NOT INCLUDE COIL OR FILTER PRESSURE DROP.
- CONTRATOR MAY SUBSTITUE MANUFACTURER FOR APPROVED EQUAL. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT CLEARANCE REQUIREMENTS ARE MET FOR ANY SUBSTITUTIONS.

ABBREVIATION LEGEND:
D/A - DUCT APPLICATION
HP - HORSE POWER
RLA - RUNNING LOAD AMPS
FLA - FULL LOAD AMPS
OUTSIDE AIR MOCP - MAX. OVERCURRENT PROTECTION (DUAL ELEMENT TYPE FUSE)
E.S.P. - EXTERNAL STATIC PRESSURE
EER - ENERGY EFFICIENCY RATIO
SEER - SEASONAL ENERGY EFFICIENCY RATIO

SPECIFIC NOTES:
1) SIZE AND RUN OF REFERIGERANT PIPING AS PER MANUFACTURERS PUBLISHED RECOMMENDATIONS.
2) INSULATE REFRIGERANT SUCTION LINE WITH 3/4" ARMAFLEX OR EQUAL.
3) ISTALL FILTER DRYER AND STRAINER IN REFRIGERANT LIQUID LINE.
4) PROVIDE FIELD INSTALLED ACCESSORIES, AND 3 MINUTE TIME DELAY SWITCH.
5) PROVIDE 5 YEAR WARRANTY ON COMPRESSOR AND 1 YEAR WARRANTY ON ALL PARTS AND LABOR.
6) HEATER SHALL BE PROVIDED WITH 24 VOLT CONTROL.



MECHANICAL PLAN
1/4" 1'-0"

GENERAL MECHANICAL NOTES

1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION CODE AND ALL OPTION OF A COMPLETE SYSTEM IN WITH THESE DRAWINGS, THE APPLICABLE BUILDING CODE AND ALL OTHER APPLICABLE STATE, COUNTY AND LOCAL ORDINANCES AND THE LATEST ADDITION OF THE FOLLOWING PUBLICATIONS, ASHREA, NFPA 90A, 90B, 91, AND ANSI B-9.1 MECHANICAL REFRIGERATION.
2. THE CONTRACTOR SHALL PAY ALL COSTS OF PERMIT, INSPECTIONS, AND ALL OTHER COSTS INCIDENTAL TO THE COMPLETION AND TESTING OF THIS WORK.
3. THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. ALL EXECUTION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.
4. THE CONTRACTOR SHALL SUPPLY THE ENGINEER/ARCHITECT WITH AS-BUILT DRAWINGS UPON COMPLETION OF THIS PROJECT.
5. CONTRACTOR SHALL SUBMIT FOR APPROVAL FIVE (5) COPIES OF MANUFACTURER'S DRAWING FOR EACH PIECE OF EQUIPMENT AND CONTROLS INCLUDED IN CONTRACT.
6. ALL MATERIAL SHALL BE NEW OF GOOD QUALITY. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER BY SKILLED WORKMAN.
7. ALL AIR CONDITIONING DUCT SHALL BE OF 1-1/2" STANDARD DUTY FOIL REINFORCED FIBERGLASS WITH MANUFACTURER'S LOGO PRINTED ON THE VAPOR BARRIER. ALL FLEX TO BE R-8.
8. ALL EXHAUST DUCTS AND OUTSIDE AIR DUCTS SHALL BE GALVANIZED SHEET METAL WITH SEALED SEAMS AND JOINTS.
9. DUCT SIZES SHOWN ARE INSIDE DIMENSIONS.
10. ALL AIR DEVICES (DIFFUSERS, REGISTERS, AND GRILLS) SHALL BE ALL ALUMINUM CONSTRUCTION WITH EXPOSED SURFACE OFF WHITE BAKED ENAMEL FINISH OR AS SPECIFIED BY ENGINEER/ARCHITECT. DEVICES SHALL BE TITUS, METALAIRE, AND AIRGUIDE. PROVIDE OPPOSED BLADE DAMPERS AT ALL DIFFUSERS AND REGISTERS.
11. THERMOSTAT SHALL BE COMBINATION COOLING/HEATING, WITH SYSTEM "COOL-AUTO-HEAT-OFF" AND FAN "ON-AUTO" SELECTOR SWITCHES. PROVIDE PROGRAMMABLE TYPE, CARRIER OR EQUAL.
12. REFRIGERANT LINES SHALL BE COPPER, TYPE 'L' HARD DRAWN WITH WROUGHT COOPER SOLDER-JOINT TYPE FITTINGS, USE 95/5 SOLDER. REFRIGERANT LINES SHALL BE SIZED AS PER MANUFACTURER RECOMMENDATIONS.
13. ARMAFLEX 3/4" INSULATION SHALL BE USED FOR SUCTION LINES, FILTER/DRYER AND SIGHT GLASS SHALL BE PROVIDED AT LIQUID LINES.
14. ALL BRANCH TAKE-OFFS TO BE PROVIDED W/MANUAL VOLUME DAMPERS. ALL ELBOWS AND TEE'S MUST BE FURNISHED W/TURNING VANES. PROVIDE 45 DEGREES BRANCH TAKE-OFF AS PER BRANCH DUCT TAKE-OFF DETAIL.
15. PROVIDE NEW FILTERS FOR ALL AIR CONDITIONING EQUIPMENT BEFORE STARTING THEM. REPLACE THEM PRIOR TO ACCEPTANCE BY OWNER.
16. PROVIDE SMOKE DETECTORS WITH ACCESS DOORS IN ALL SUPPLY AIR DUCTS FOR FANS AND AHU'S SERVING A COMMON PLENUM OF 2000 CFM OR ABOVE. ALL SMOKE DETECTORS SHALL BE BY ONE MANUFACTURER, COORDINATE VOLTAGE ETC. WITH ELECTRICAL CONTRACTOR AND FIRE ALARM SYSTEM BEFORE ORDERING.
17. PROVIDE TYPE "B" FIRE DAMPERS IN ALL DUCTS OR OPENINGS PENETRATING FIRE RATED WALLS, MECHANICAL AND ELECTRICAL ROOMS, TENANT SEPARATION, PARTITIONS, FLOOR OR ROOF SLABS AND AT D/A INTAKES. PROVIDE RADIATION DAMPERS IN RATED CEILING FOR ALL CEILING OPENING, CEILING FANS, DIFFUSERS OR GRILLES RATED FOR USE IN THE CEILING ASSEMBLY.
18. HVAC CONTRACTOR SHALL PROVIDE AN INDEPENDENT TEST AND BALANCE REPORT FOR ALL MECHANICAL EQUIPMENT, AIR DEVICE, DAMPERS, AHU'S AND FANS. THE T&B SHALL BE IN ACCORDANCE WITH THE AIR BALANCE COUNCIL STANDARDS AND SHALL INCLUDE AIR QUANTITIES FOR ALL SUPPLY GRILLS, RETURN GRILLS, AND EXHAUST GRILLS AND LEAVING AND ENTERING AIR TEMPERATURE FROM THE SUPPLY GRILLS AND EVAPORATORS.
19. THERMOSTAT LOCATION SHALL BE APPROVED BY OWNER AND ENGINEER/ARCHITECT BY INSTALLATION.
20. ALL INSULATION WILL HAVE FIRE/SMOKE RATING LESS THAN 50/50.
21. MECHANIC PLANS IN GENERAL, ARE DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCH., PLUMBING, ELECTRICAL, AND STRUCTURAL PLANS AND SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. DUCT AND PIPING OFFSETS, BENDS AND TRANSITIONS WILL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
22. NO COMBUSTIBLE MATERIALS ARE ALLOWED IN RETURN AIR PLENUMS OR ABOVE CEILINGS USED AS RETURN AIR PLENUM. IF SPACE WITH RETURN AIR PLENUM HAS ANY DECK PARTITION, AIR TRANSFER DUCTS MUST BE INSTALLED.
23. REFER TO PLUMBING PLAN FOR CONDENSATE PIPING.
24. IF PROJECT IS A REMODEL OF AN EXISTING BUILDING, THE CONTRACTOR SHALL VISIT JOB SITE PRIOR TO CONSTRUCTION AND COORDINATE ALL FIELD CONDITIONS. ENGINEER AND/OR ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES.
25. CONTRACTOR SHALL INSTALL ALL OUTDOOR EQUIPMENT TO WITHSTAND A SUSTAINED 140 MPH WIND WITH A GUST FACTOR OF 30%. PROVIDE A LISTED PRE-ENGINEERED ASSEMBLY, OR CONTRACTOR SHALL BE RESPONSIBLE FOR THE CERTIFICATION OF ROOF MOUNTING.
26. PROVIDE ALL NECESSARY CONTACTS, RELAYS, ETC., FOR A COMPLETE OPERATING A/C SYSTEM.

SCHEDULE	
	A/C UNIT
AHU #1	AIR HANDLER UNIT
EF-1	EXHAUST FAN
	AIR SUPPLY VENT
	AIR RETURN VENT
	SUPPLY DUCT
	RETURN DUCT

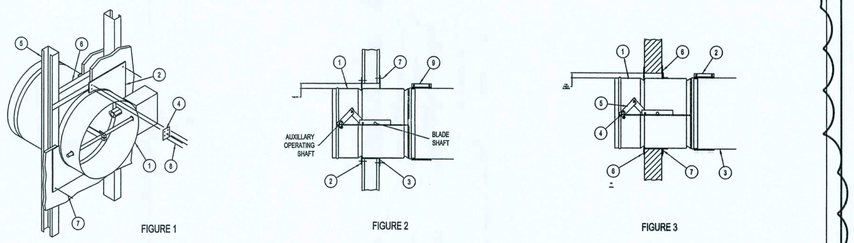
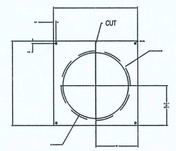


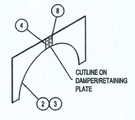
FIGURE 1 | FIGURE 2 | FIGURE 3

ITEM.	DESCRIPTION
1.	FSDR25 COMBINATION FIRE AND LEAKAGE RATED DAMPER *OPERATOR/ACTUATOR (LOCATION MAY VARY). DAMPER MAY BE SUPPLIED WITHOUT OPERATOR/ACTUATOR INSTALLED. RUSKIN'S UL LISTED FIRE DAMPER OPERATORS SPECIFIED ON DAMPER MARKING MAY BE FIELD INSTALLED. SEE OPERATOR/ACTUATOR INSTALLATION INSTRUCTIONS FOR FIELD MOUNTING OF DAMPER OPERATORS.
2.	RETAINING PLATE, 20 GA STEEL
3.	DAMPER PLATE, 20 GA PLATE
4.	SPLICE PLATE, 20 GA STEEL, TYP BOTH PLATES
5.	STEEL STUD, 25 GA MIN, 2 1/2" WIDE MIN
6.	STEEL RUNNER, 25 GA MIN, 2 1/2" WIDE MIN
7.	#10 SHEET METAL SCREW
8.	1/8" DIA STEEL POP RIVET, OR #10 X 1/2 "SHEET METAL SCREW, OR 1/2" LONG WELDS
9.	4" DRAW BAND

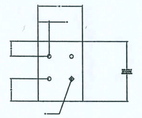
ITEM.	DESCRIPTION
1.	FSDR25 COMBINATION FIRE AND LEAKAGE RATED DAMPER *OPERATOR/ACTUATOR (LOCATION MAY VARY). DAMPER MAY BE SUPPLIED WITHOUT OPERATOR/ACTUATOR INSTALLED. RUSKIN'S UL LISTED FIRE DAMPER OPERATORS SPECIFIED ON DAMPER MARKING MAY BE FIELD INSTALLED. SEE OPERATOR/ACTUATOR INSTALLATION INSTRUCTIONS FOR FIELD MOUNTING OF DAMPER OPERATORS.
2.	4" DRAW BAND
3.	DUCT
4.	AUXILLARY OPERATING JACKSHAFT
5.	OVER CENTER LOCK
6.	DAMPER AND RETAINING PLATES (SEE NOTE 6)
7.	RETAINING CLIP 1" X 1" X 1" 16 GA ANGLE (SEE NOTE 6)



DAMPER AND RETAINING PLATES DETAIL



SPLICE DETAIL



SPLICE PLATE DETAIL 20 GA. GALV.

ALL DIMENSIONS IN INCHES

A AND B = DAMPER DIA PLUS 3"
D1 = DAMPER DIA MINUS 9/16" FOR RETAINING PLATE
D2 = DAMPER DIA FOR DAMPER PLATE

DAMPER INSTALLATION DIAGRAM

4/10/06

REV#	DATE	REVISION/REMARKS
-		

REVISION NOTES

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ACTION SIGN & GRAPHICS
COMMERCIAL SITE
LAKE CITY, FL

MECHANICAL PLAN

PROJECT NUMBER: PF05-365
DRAWN BY: T.K.
CHECKED BY: G.G.

M-1.0

SHEET #### ####

7-Apr-06

DESIGN CRITERIA

DESIGN PER 2004 FLORIDA BUILDING CODE, UNLESS OTHERWISE NOTED.

LIVE LOADS:

ROOFS AND CANOPIES: 0 TO 200 SF	16PSF
201 TO 600 SF	14PSF
OVER 600 SF	12PSF
STAIRS	100PSF
FLOORS	50PSF
CORRIDORS	80PSF
LOBBIES	80PSF
BALCONIES	60PSF
PARTITION LOAD (DEAD LOAD)	20PSF

WIND LOADS:

BASIC WIND SPEED: (ASCE 7)	110 MPH
MEAN ROOF HEIGHT	21 FT
WIND IMPORTANCE FACTOR (CATEGORY II)	1.0
WIND EXPOSURE	B
ENCLOSURE CLASSIFICATION	ENCLOSED
INTERNAL PRESSURE COEFFICIENT	±0.18
DIRECTIONALITY FACTOR (Kd)	0.85
SHAPE FACTORS	PER CODE

THIS BUILDING IS NOT LOCATED IN THE WIND BORNE DEBRIS REGION. IMPACT RESISTANT GLAZING IS NOT REQUIRED.

DESIGN WIND PRESSURES FOR COMPONENTS & CLADDING:

WALLS & WALL OPENINGS

TRIBUTARY AREA	INTERIOR ZONE (> 6.3 ft FROM BLDG. CORNER)	END ZONE (< 6.3 ft FROM BLDG. CORNER)
10 sf	-23.61 /21.7	-29.2 / 21.77
25 sf	-22.31 / 20.5	-26.55 / 20.5

(LINEARLY INTERPOLATE BETWEEN STATED VALUES)

ROOFS &ROOF OPENINGS

TRIBUTARY AREA	INTERIOR ZONE (> 6.3 ft FROM BLDG. CORNER)	END ZONE (< 6.3 ft FROM BLDG. CORNER)
10 sf	-21.77/19.92	-25.46 / 19.92
25 sf	-20.30 / 19.19	-23.99 / 19.19

(LINEARLY INTERPOLATE BETWEEN STATED VALUES)

CONCRETE (DESIGN PER CURRENT EDITION ACI 318)

SLAB ON GRADE	F'C= 4000 PSI
FOOTINGS	F'C= 3000 PSI
ALL OTHER CONCRETE	F'C= 3000 PSI

ALL REINFORCING STEEL ASTM A615 GRADE 60

ALL WELDED WIRE FABRIC ASTM A185

CONCRETE MASONRY (DESIGN PER CURRENT EDITION ACI 530)

COMPRESSIVE STRENGTH	F'M= 1500 PSI

STRUCTURAL STEEL (DESIGN PER CURRENT EDITION AISC), UNLESS OTHERWISE NOTED MATERILS SHALL BE AS FOLLOWS:

W-SHAPES	ASTM 992, Fy=50 KSI
OTHER SHAPES & PLATES	ASTM A36, Fy=36 KSI
HSS SQUARE & RECTANGULAR SHAPES	ASTM A500 GRADE B, Fy= 46 KSI
HSS ROUND SHAPES	ASTM A500 GRADE B, Fy= 42 KSI
STEEL PIPES	ASTM A53 GRADE B, Fy= 35 KSI
WELDING ELECTRODES	AWS A5.1 OR A5.5 SERIES E70
HIGH-STRENGTH BOLTS	¾"Ø ASTM A325
ANCHOR RODS	GRADE 36 ASTM F1554
WELDED STUDS	ASTM A108
DEFORMED BARS	ASTM A496
PAINT & PROTECTION	SSPC PAINT 25

SOIL BEARING (DESIGN MAXIMUM)..... REFER TO GEOTCHNICAL REPORT FOR ALLOWABLEBEARING PRESSURE

GENERAL NOTES

CONCRETE

UNLESS OTHERWISE NOTED ON THE DRAWINGS, MINIMUM COVER FOR REINFORCING SHALL BE AS FOLLOWS:

FOOTINGS	3"
PILE CAPS	SEE TYPICAL DETAIL
GRADE BEAMS	3"
COLUMNS AND PEDESTALS (OVER VERTICAL REINF)	2"
SLABS AND WALLS (EXPOSED TO EARTH, LIQUID OR WEATHER)	2"
SLABS AND WALLS (NOT EXPOSED TO EARTH, LIQUID OR WEATHER)	¾"
CANOPY SLABS	1 ½"
BEAMS (OVER MAIN REINFORCING)	1 ½"
SLABS ON GRADE	2" FROM TOP

ALL REINFORCING SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES IN CONFORMANCE WITH CRSI MANUAL OF STANDARD PRACTICE AND ACI 315 DURING THE PLACEMENT OF CONCRETE.

UNLESS OTHERWISE NOTED, SPLICES IN REINFORCING, WHERE PERMITTED, SHALL BE AS FOLLOWS:

WELDED WIRE FABRIC	WIRE SPACING PLUS 6"
REINFORCING BARS	40 BAR DIAMETERS

ALL HOOKS IN REINFORCING BARS SHALL BE AN ACI STANDARD HOOK, UNLESS OTHERWISE NOTD.

FOUNDATIONS

IF FOOTING EVALUATIONS SHOWN OCCUR IN A DISTURBED, UNSTABLE, OR UNSUITABLE SOIL, TH ENGINEER SHALL BE NOTIFIED.

STEPS IN WALL FOOTINGS SHALL NOT EXCEED A SLOPE OF (1) VERTICAL TO TWO (2) HORIZONTAI

PROVIDE A MINIMUM OF TWO #4 BARS IN TOP OF CONTINUOUS WALL FOOTINGS AT DOOR AND O'IER OPENINGS, 4'-0" LONGER THAN THE OPENING.

NOTES:
1) ALL CONNECTORS LISTED ARE SIMPSON STRONG-TIE, UON. OTHER MANUFACTURERS MAY BE SUBSTITUTED. SCREW SIZE AND NUMBER SHALL BE IN ACCORDANCE WITH MANUFACTURER'S CATALOG. ROOF TRUSS CLIPS SHALL BE SELECTED TO PROVIDE THE UPLIFT RESISTANCE SHOWN ON THE ROOF TRUSS SHOP DRAWINGS.
2) TRUSS ENGINEER MAY PROVIDE ALTERNATE CONNECTIONS.

SUPPLEMENTARY NOTES

PROVIDE ALL TEMPORARY BRACING, SHORING, GUYING OR OTHER MEANS TO AVOID EXCESSIVE STRESSES AND TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION. THE STRUCTURE SHOULD NOT BE CONSIDERED STABLE UNTIL ALL STRUCTURAL ELEMENTS HAVE BEEN CONSTRUCTED.

VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR EMBEDS, OPENINGS, SLEEVES, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS.

ALL STRUCTURAL OPENINGS AROUND OR AFFECTED BY MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT SHALL BE VERIFIED WITH EQUIPMENT PURCHASED BEFORE PROCEEDING WITH STRUCTURAL WORK AFFECTED.

EMBEDMENT FOR EXPANSION BOLTS SHALL BE 3 ¼"Ø MINIMUM FOR ¾" BOLTS IN CONCRETE, 5 ¼" IN GROUTED MASONRY. HILTI KWIK BOLT II OR EQUAL.

EPOXY GROUT SHALL BE POWER FAST CARTRIDGE SYSTEM BY RAWL. HY150 CARTRIDGE SYSTEM BY HILTI: (HILTI RE500, IF HOLE IS CORED INSTEAD OF DRILLED) OR APPROVED EQUAL, UON. EMBEDMENT SHALL BE 12 BAR DIAMETERS MINIMUM, UON. HOLES SHALL BE ¼" LARGER THAN REBAR SIZE, AND ⅜" LARGER THAN THREADED ROD SIZE. HOLE SHALL BE BRUSHED OUT WITH BOTTLE BRUSH AND THEN BLOWN OUT WITH AIR USING A COMPRESSOR WITH A FUNCTIONAL OIL TRAP. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS PRINTED INSTRUCTIONS.

ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF AN ENGINEER IN THE STATE OF THE PROJECT.

GENERAL CONTRACTOR MUST REVIEW AND APPROVE SHOP DRAWINGS PRIOR TO SUBMITTAL TO ARCHITECT / ENGINEER. SUBMITTALS WHICH DO NOT CONTAIN THE CONTRACTOR'S SHOP DRAWING STAMP OR HAVE BEEN MERELY "RUBBER STAMPED" SHALL BE RETURNED WITHOUT REVIEW.

CHANGES TO THE CONTRACT DOCUMENTS SHALL BE CLOUDED ON SHOP DRAWINGS OR REQUESTED IN WRITING. THE CONTRACTOR IS LIABLE FOR ANY DEVIATIONS UNLESS REVIEWED AND ACKNOWLEDGED BY THE ENGINEER. SHOP DRAWING SUBMITTALS SHALL ONLY BE CHECKED FOR CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION SHOWN ON THE CONSTRUCTION DOCUMENTS.

SPECIFICATIONS

CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (LATEST EDITION). EXCEPT AS MODIFIED BY REQUIREMENTS OF THE CONTRACT DOCUMENTS.

MASONRY CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS", AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS", AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", AND AWS D1.1" "STRUCTURAL WELDING CODE", EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

A GEOTECHNICAL TESTING AND INSPECTION FIRM SHALL BE EMPLOYED TO PERFORM A SOIL SURVEY FOR SATISFACTORY AOIL MATERIALS, SAMPLING AND TESTING FOR QUALITY CONTROL AS PER THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT FOR THIS PROJECT. ALL EARTHWORK OPERATIONS SHALL BE PERFORMED TO THE SATISFACTION OF THE GEOTECHNICAL TESTING FIRM.

FOUNDATION HAVE BEEN DESIGNED WITH AN ALLOWABLE SOIL BEARING PRESSURE OF 1,500 P.S.F.

TERMITE PROTECTION NOTES:

SOIL CHEMICAL BARRIER METHOD:

1. A PERMANENT SIGN WHICH IDENTIFIES THE TERMITE TREATMENT PROVIDER AND NEED FOR REINSPECTION AND TREATMENT CONTRACT RENEWAL SHALL BE PROVIDED. THE SIGN SHALL BE POSTED NEAR THE WATER HEATER OR ELECTRIC PANEL. FBC 104.2.6

2. CONDENSATE AND ROOF DOWNSPOUTS SHALL DISCHARGE AT LEAST 1'-0" AWAY FROM BUILDING SIDE WALLS. FBC 1503.4.4

3. IRRIGATION/SPRINKLER SYSTEMS INCLUDING ALL RISERS AND SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 1'-0" FROM BUILDING SIDE WALLS. FBC 1503.4.4

4. TO PROVIDE FOR INSPECTION FOR TERMITE INFESTATION, BETWEEN WALL COVERINGS AND FINAL EARTH GRADE SHALL NOT BE LESS THAN 6". EXCEPTION: PAINT AND DECORATIVE CEMENTIOUS FINISH LESS THAN 5/8" THICK ADHERED DIRECTLY TO THE FOUNDATION WALL. FBC 1403.1.6

5. INITIAL TREATMENT SHALL BE DONE AFTER ALL EXCAVATION AND BACKFILL IS COMPLETE. FBC 1816.1.1

6. SOIL DISTURBED AFTER THE INITIAL TREATMENT SHALL BE RETREATED INCLUDING SPACES BOXED OR FORMED. FBC 1816.1.2

7. BOXED AREAS IN CONCRETE FLOOR FOR SUBSEQUENT INSTALLATION OF TRAPS, ETC., SHALL BE MADE WITH PERMANENT METAL OR PLASTIC FORMS. PERMANENT FORMS MUST BE OF A SIZE AND DEPTH THAT WILL ELIMINATE THE DISTURBANCE OF SOIL AFTER THE INITIAL TREATMENT. FBC 1816.1.3

8. MINIMUM 6 MIL VAPOR RETARDER MUST BE INSTALLED TO PROTECT AGAINST RAINFALL DILUTION. IF RAINFALL OCCURS BEFORE VAPOR RET– ARDER PLACEMENT, RETREATMENT IS REQUIRED. FBC 1816.1.4

9. CONCRETE OVERPOUR AND MORTAR ALONG THE FOUNDATION PERIMETER MUST BE REMOVED BEFORE EXTERIOR SOIL TREATMENT. FBC 1816.1.5

10. SOIL TREATMENT MUST BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRADE WITHIN 1'–0" OF THE STRUCTURE SIDEWALLS. FBC 1816.1.6

11. AN EXTERIOR VERTICAL CHEMICAL BARRIER MUST BE INSTALLED AFTER CONSTRUCTION IS COMPLETE INCLUDING LANDSCAPING AND IRRIGATION. ANY SOIL DISTURBED AFTER THE VERTICAL BARRIER IS APPLIED, SHALL BE RETREATED. FBC 1816.1.6

12. ALL BUILDINGS ARE REQUIRED TO HAVE PER–CONSTRUCTION TREATMENT. FBC 1816.1.7

13. A CERTIFICATE OF COMPLIANCE MUST BE ISSUED TO THE BUILDING DEPART– MENT BY # LICENSED PEST CONTROL COMPANY BEFORE A CERTIFICATE OF OCCUPANCY WILL BE ISSUED. THE CERTIFICATE OF COMPLIANCE SHALL STATE: "THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. THE TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES". FBC 1816.1.7

14. AFTER ALL WORK IS COMPLETED, LOOSE WOOD AND FILL MUST BE REMOVED FROM BELOW AND WITHIN 1'–0" OF THE BUILDING. THIS INCLUDES ALL GRADE STAKES, TUB TRAP BOXES, FORMS, SHORING OR OTHER CELLULOSE CONTAINING MATERIAL. FBC 2303.1.3

15. NO WOOD, VEGETATION, STUMPS, CARDBOARD, TRASH, ETC., SHALL BE BURIED WITHIN 15'–0" OF ANY BUILDING OR PROPOSED BUILDING. FBC 2303.1.4

4/10/06

REVISION NOTES

REV #	DATE
0	03/15/06

STRUCTURAL/CIVIL ENGINEERS
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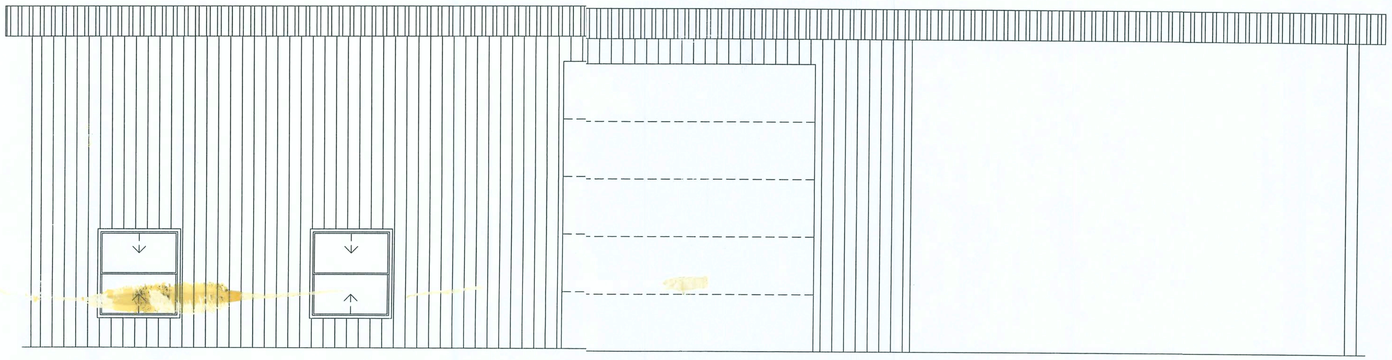
Gary Gill, PE
Auth. # 9461

ACTION SIGN & GRAPHICS
NEW CONSTRUCTION
COLUMBIA COUNTY

GENERAL NOTES

PROJECT NUMBER: PF05-365
DRAWN BY: T.K.
CHECKED BY: G.G.
SHEET NUMBER: S-2.0

ACTION SIGN & GRAPHICS



NEW OFFICE CONSTRUCTION
COLUMBIA COUNTY, FL.

OFFICE COPY

APPLICABLE CODES

2004 FLORIDA BUILDING CODE

OCCUPANCY CLASS

CLASS B BUSINESS & CLASS S-2 LOW HAZARD STORAGE

TYPE OF CONSTRUCTION

TYPE 5, UNPROTECTED

OCCUPANCY LOAD/EGRESS REQUIREMENTS

BUSINESS AREA 100 GROSS SQ. FT / OCCUPANT x 938.5 SQ. FT = 9 OCCUPANTS

STORAGE AREA 100 GROSS SQ. FT / OCCUPANT x 1427 SQ. FT.= 14 OCCUPANTS

CONSTRUCTION DOCUMENTS

THE CUSTOMER IS RESPONSIBLE FOR DELIVERING THE REQURED SETS OF CONSTRUCTION DOCUMENTS TO THE PERMIT ISSUING AUTHORITIES, FOR THE SSUANCE OF CONSTRUCTION PERMITS. THE CONTRACTOR SHALL REVIEW THE CONSTRUCTON DOCUMENTS AND VERIFY ALL DIMENSIONS. ANY DISCREPANCIES SHALL BE REPORTED TO YOUR SALES REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF ANY WORK OR FABRACATDN OF ANY MATERIALS.

DO NOT SCALE OFF THESE PLANS

AMPLE DIMENSIONS ARE SHOWN ON THE PLANS TO LOCATE A.L ITEMS. SIMPLE ARITHMETIC MAY BE USED TO DETERMINE THE LOCATIONS OF THOSE ITEMS NOT DIMENSIONED.

GTC DESIGN GROUP, LLC.
STRUCTURAL/CIVIL | ENGINEERS

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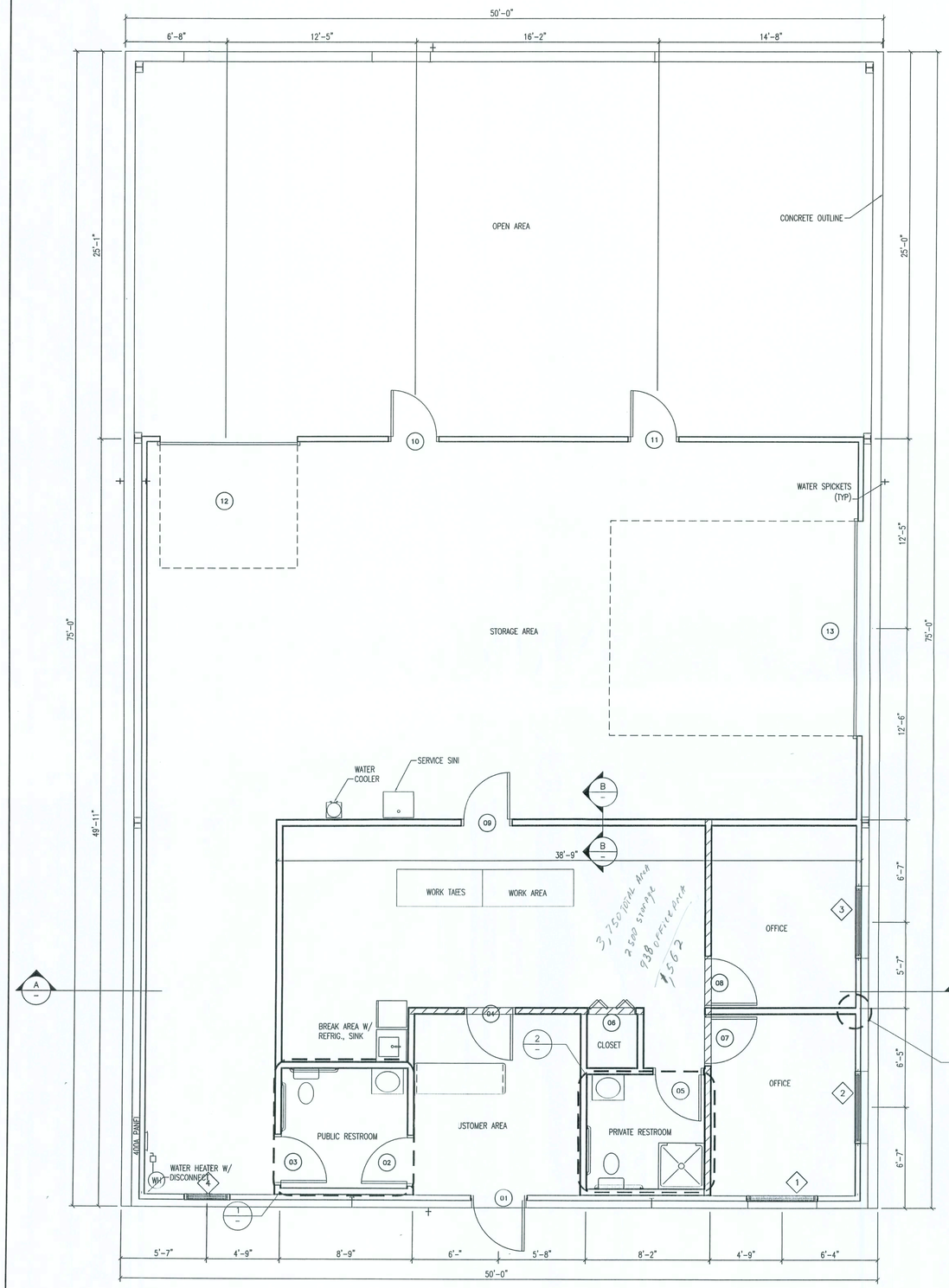
Gary Gill, PE
Auth. # 9461

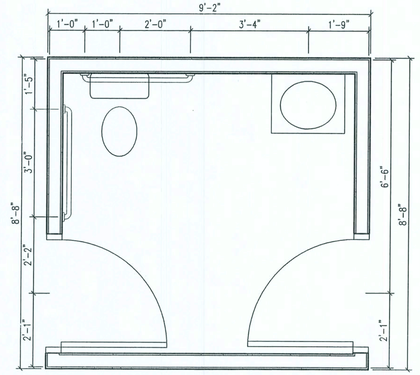
INDEX

APPROVED
(Subject to Revisions)
Inspection Department
Lake City Fire Dept.
State Fire Inspector
License # 11287
By: Jack E. Arnold Date: 3/21/06

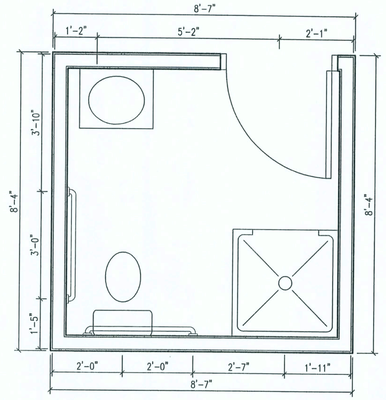
3/14/06



FLOOR PLAN
1/4" = 1'-0"



PUBLIC RESTROOM DETAIL 1
1/2" = 1'-0"



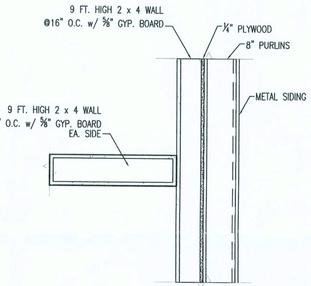
PRIVATE RESTROOM DETAIL 2
1/2" = 1'-0"

WINDOW SCHEDULE

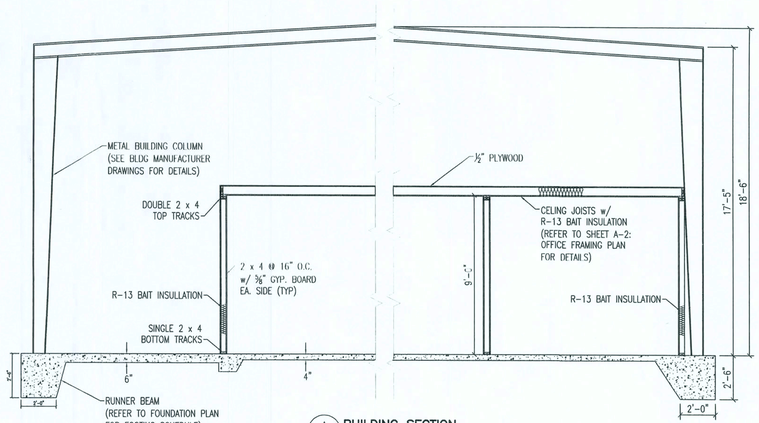
MARK	SIZE		TYPE	MATERIAL	NOTES
	WIDTH	HEIGHT			
1	4'-8"	5'-0"	--	--	--
2	4'-8"	5'-0"	--	--	--
3	4'-8"	5'-0"	--	--	--
4	3'-0"	5'-0"	--	--	--

DOOR AND FRAME SCHEDULE

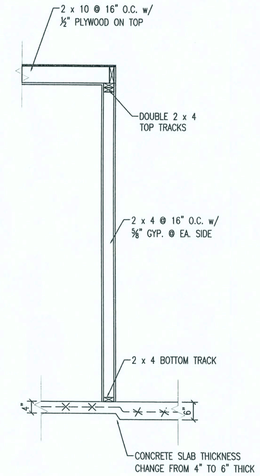
MARK	DOOR SIZE WD	DOOR SIZE HGT	DOOR SIZE THK	DOOR MATL	DOOR GLAZING	DOOR LOUVER WD	DOOR LOUVER HGT	FRAME MATL	FRAME EL	FRAME DETAIL HEAD	FRAME DETAIL JAMB	FRAME DETAIL SILL	FIRE RATING LABEL	HARDWARE SET NO	HARDWARE KEYSIDE RM NO	NOTES
1	3'-4"	7'-0"	1 3/4"	--	--	0"	0"	--	--	--	--	--	--	--	--	--
2	3'-0"	6'-8"	1 3/4"	--	--	0"	0"	--	--	--	--	--	--	--	--	--
3	3'-0"	6'-8"	1 3/4"	--	--	0"	0"	--	--	--	--	--	--	--	--	--
4	3'-0"	6'-8"	1 3/4"	--	--	0"	0"	--	--	--	--	--	--	--	--	--
5	3'-0"	6'-8"	1 3/4"	--	--	0"	0"	--	--	--	--	--	--	--	--	--
6	3'-0"	6'-8"	1 3/4"	--	--	0"	0"	--	--	--	--	--	--	--	--	--
7	3'-0"	6'-8"	1 3/4"	--	--	0"	0"	--	--	--	--	--	--	--	--	--
8	3'-0"	6'-8"	1 3/4"	--	--	0"	0"	--	--	--	--	--	--	--	--	--
9	3'-0"	6'-8"	1 3/4"	--	--	0"	0"	--	--	--	--	--	--	--	--	--
10	3'-0"	6'-8"	1 3/4"	--	--	0"	0"	--	--	--	--	--	--	--	--	--
11	3'-0"	6'-8"	1 3/4"	--	--	0"	0"	--	--	--	--	--	--	--	--	--
12	9'-0"	8'-0"	1 3/4"	--	--	0"	0"	--	--	--	--	--	--	--	--	--
13	14'-0"	16'-0"	1 3/4"	--	--	0"	0"	--	--	--	--	--	--	--	--	--



WALL DETAIL 3
1" = 1'-0"



A BUILDING SECTION
1/4" = 1'-0"



B SECTION
1/2" = 1'-0"

15-Mar-06

REV #	DATE	REVISION NOTES
REV#	REVISION#	REVISION NOTES
-	-	-

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Auth. # 9461

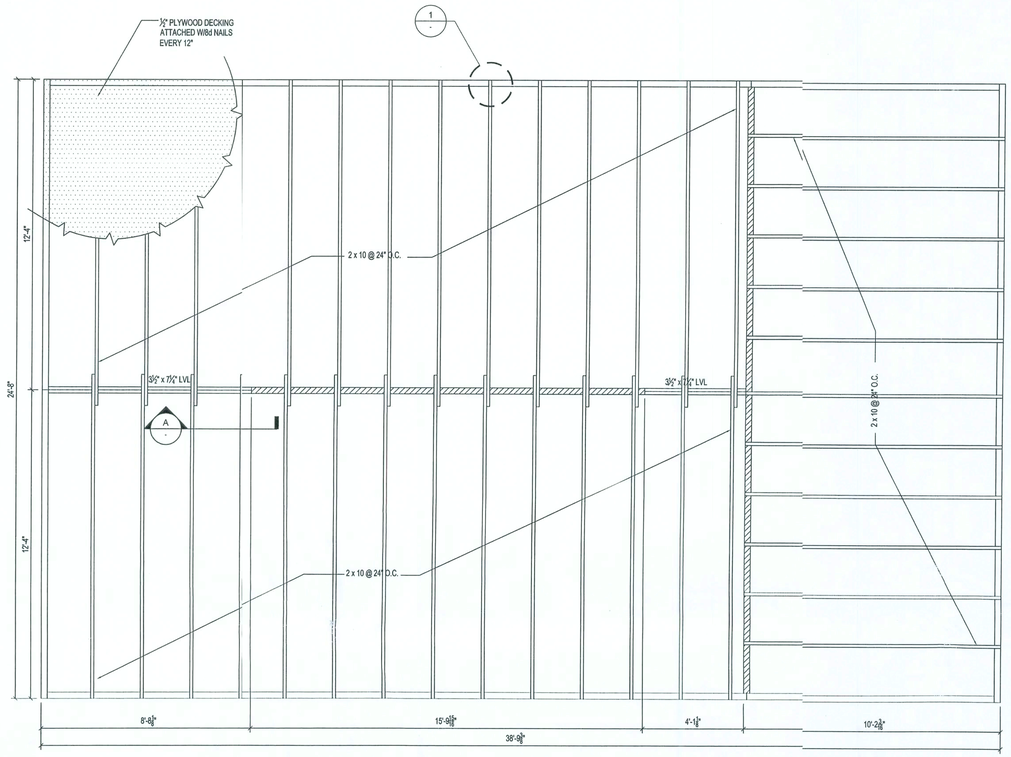
ACTION SIGN & GRAPHICS
COMMERCIAL SITE
LAKE CITY, FL

FLOOR PLAN

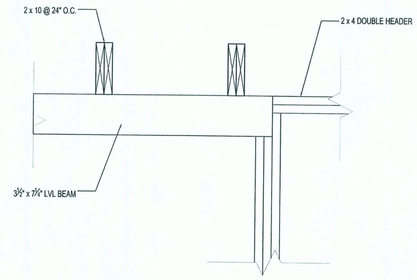
PROJECT NUMBER PF05-365
DRAWN BY TK
CHECKED BY GG

A-1.0

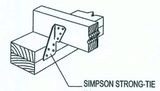
SHEET #### ####



OFFICE FRAMING PLAN
3/8" = 1'-0"



SECTION A
1" = 1'-0"



1 DETAIL
1" = 1'-0"

15-Mar-06

REV #	DATE	REVISION NOTES
REV#	REVISION DATE	REVISION NOTES
-	-	-

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ACTION SIGN & GRAPHICS
COMMERCIAL SITE
LAKE CITY, FL

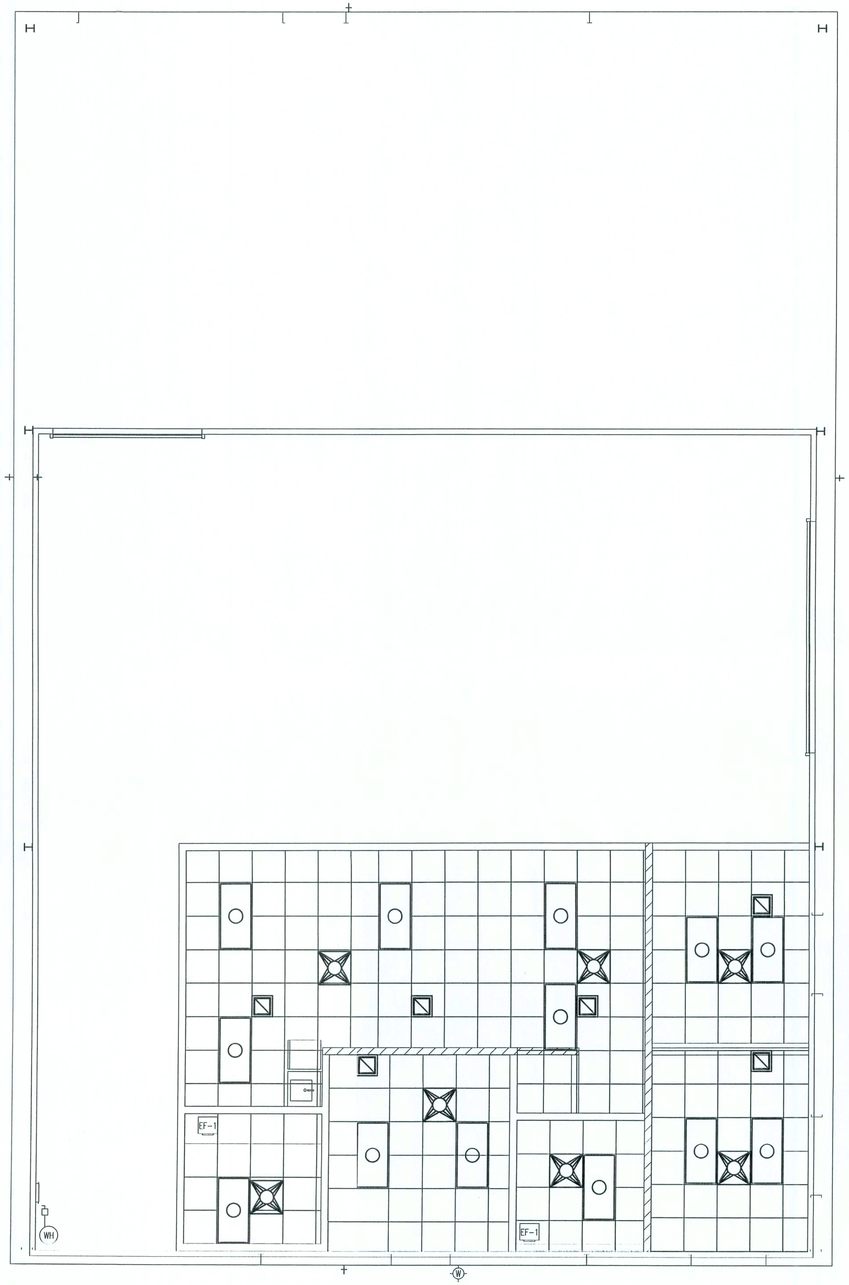
OFFICE FRAMING PLAN

PROJECT NUMBER PF05-365
DRAWN BY T.K.
CHECKED BY G.G.

A-2.0

SHEET #### ####

7/11/05



REFLECTED CEILING PLAN
1'4" = 1'-0"

LEGEND		
SYMBOL	QUANTITY	DESCRIPTION
	13	**48" FLUORESCENT LIGHT**
	7	AIR SUPPLY VENT
	6	AIR RETURN VENT
EF-1	2	EXHAUST FAN

15-Mar-06

REV #	DATE	REVISION NOTES
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-	-	-

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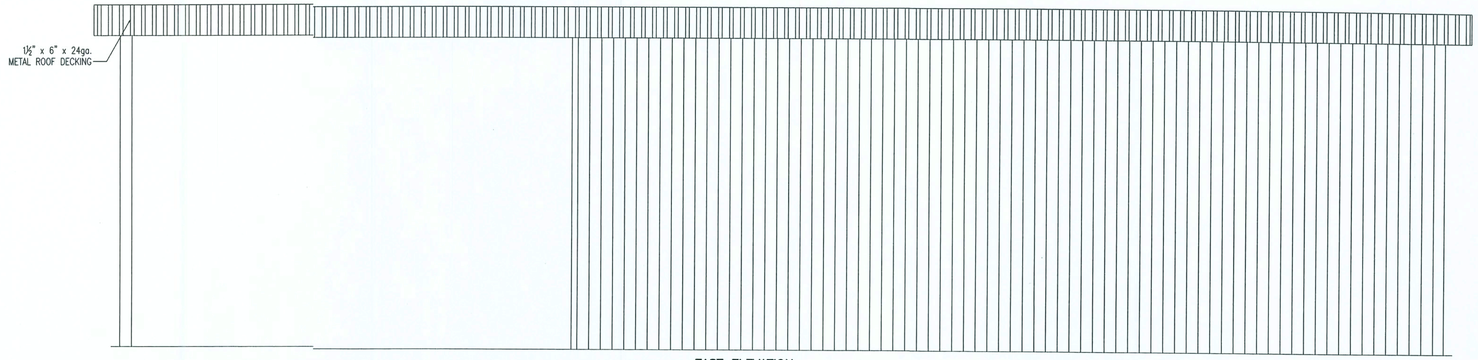
ACTION SIGN & GRAPHICS
COMMERCIAL SITE
LAKE CITY, FL

REFLECTED CEILING PLAN

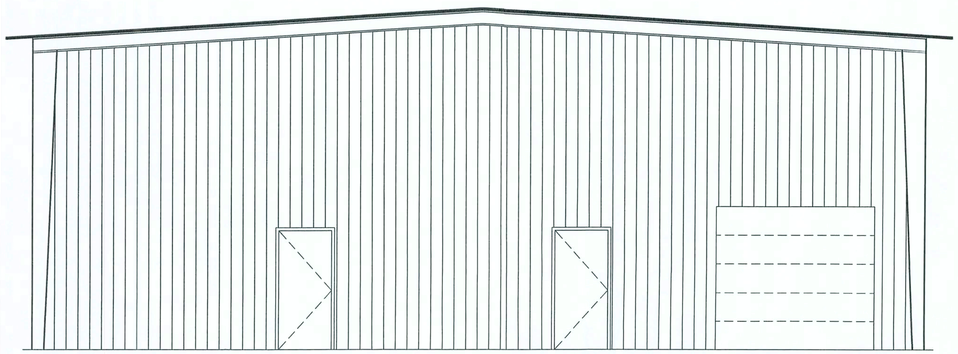
PROJECT NUMBER PF05-365
DRAWN BY T.K.
CHECKED BY G.G.

A-3.0

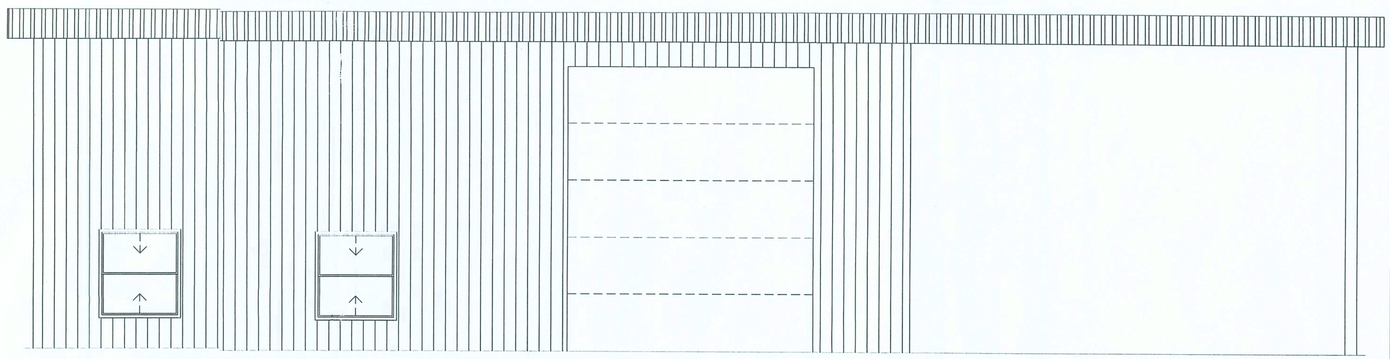
SHEET #### ####



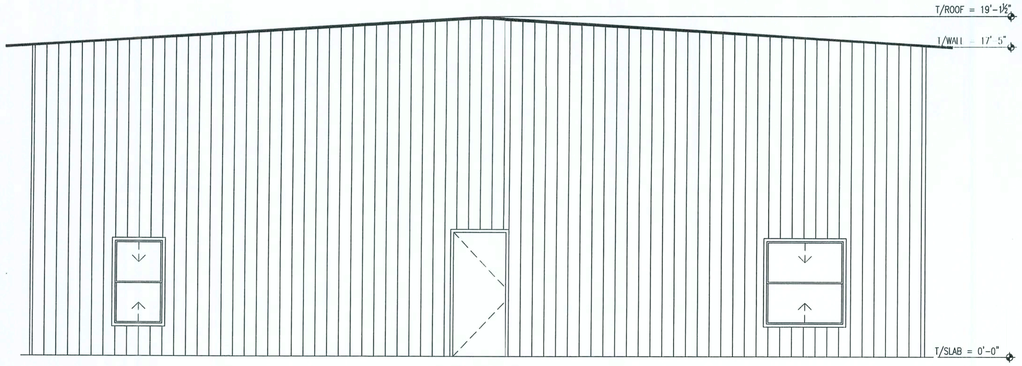
EAST ELEVATION
1/4" = 1'-0"



SOUTH ELEVATION
1/4" = 1'-0"



WEST ELEVATION
1/4" = 1'-0"



NORTH ELEVAION
1/4" = 1'-0"

15-Mar-06

REV #	DATE	REVISION NOTES
-		-

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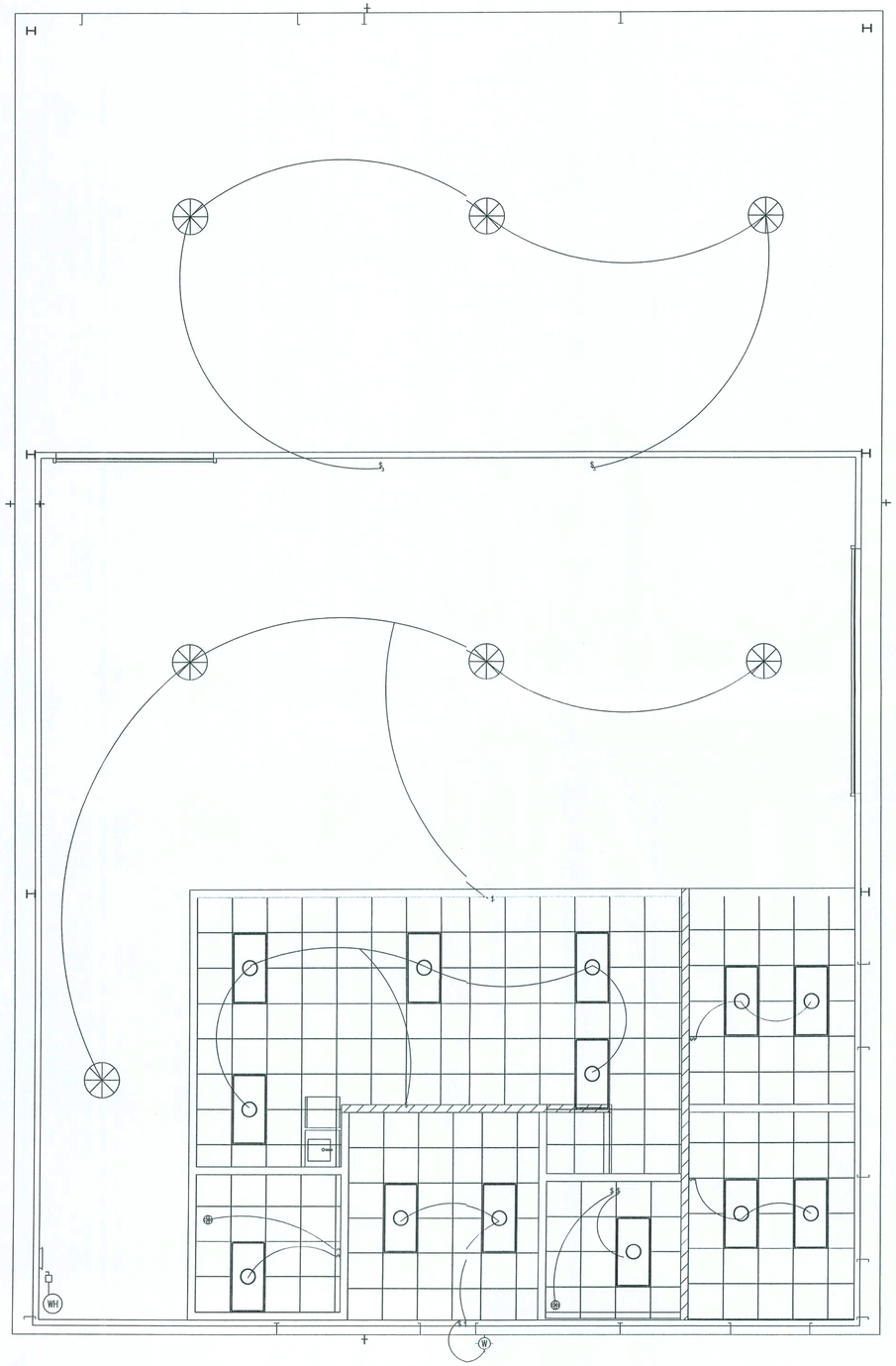
ACTION SIGN & GRAPHICS
COMMERCIAL SITE
LAKE CITY, FL

ELEVATIONS

PROJECT NUMBER PF05-365
DRAWN BY T.K.
CHECKED BY G.G.

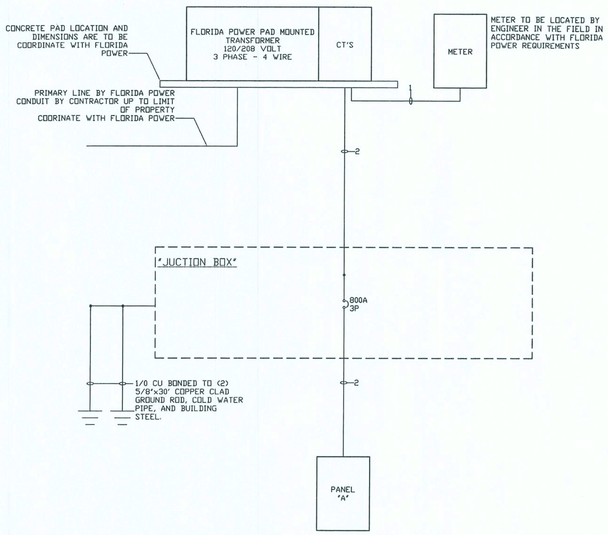
A-4.0

SHEET #### ####



LIGHTING PLAN
1/4" = 1'-0"

ALL ELECTRICAL EQUIPMENT SHALL BE PROVIDED WITH A SERIES INTEGRATED RATING = 65,000 RMS AMPS AT 240 VAC.



POWER RISER DIAGRAM - 120/208V, 3P, 4W
ALL WIRING SHALL BE COPPER TYPE THHN UNLESS OTHERWISE NOTED.

POWER RISER NOTES:

A CONTRACTOR SHALL CONTACT UTILITY COMPANY PERSONNEL AS NECESSARY FOR NEW SERVICE COORDINATION. CONTRACTOR SHALL OBTAIN UTILITY CO. REQUIREMENTS AND BE RESPONSIBLE FOR ALL WORK NECESSARY TO INSTALL NEW SECONDARY SERVICE AS INDICATED.
B CONTRACTOR SHALL PROVIDE AND INSTALL ALL TAP LUGS IN SERVICE WIREWAY AND ANY ADDITIONAL EQUIPMENT REQUIRED FOR TERMINATION OF NEW SECONDARY SERVICE CONDUCTORS. CONTRACTOR SHALL VERIFY EXACT ROUTE OF SECONDARY CONDUCTORS IN FIELD TO LOCATION OF NEW DISCONNECTS AND PANELS. CONTRACTOR SHALL PERFORM ALL WORK NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM.
C PROVIDE INTEGRATED SERIES RATING OF 65,000 RMS SYM AMPS AT 240VAC AND ANY ADDITIONAL EQUIPMENT REQUIRED FOR TERMINATION OF NEW SECONDARY

WIRE LEGEND	
①	1 - 1.5" CONDUIT
②	(2 SETS) 4-#500MCM - 4" CONDUIT

ELECTRICAL LEGEND		
SYMBOL	QUANTITY	DESCRIPTION
	4	28"Ø LOW BAY LUMINAIRE
$	10	SINGLE POLE SWITCH
$3	2	3-WAY SWITCH
	15	48" FLUORESCENT LIGHT
W	1	EXTERIOR LIGHT

GENERAL ELECTRICAL NOTES:

THE ELECTRICAL INSTALLATION SHALL COMPLY WITH THE N.E.C. & ALL STATE & LOCAL CODES.

WHETHER FURNISHED BY THE ELECTRICAL CONTRACTOR OR BY OTHERS, THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONNECTION OF ELECTRICAL EQUIPMENT MENTIONED IN THIS SECTION OR NOTED ON THE DRAWINGS.

ALL WIRING DEVICES SHALL BE IVORY WITH SMOOTH IVORY PLASTIC PLATES, UNLESS OTHERWISE NOTED. PLATES FOR UNFINISHED AREAS SHALL BE SHEET STEEL OR CAST METAL.

ALL WIRING INCLUDING LOW VOLTAGE AND COMUNICATION TO BE IN CONDUIT.

ELECTRICAL CONTRACTOR SHALL FURNISH ALL JUNCTION BOXES, CONDUIT, WIRE, & CONNECTIONS TO WIRE ALL EQUIPMENT, DEVICES AND LIGHTING.

THE CONTRACTOR SHALL CONTRACT OWN VENDOR TO WIRE AND CABLE TELEPHONE COMMUNICATIONS. AND DATA SERVICES CONNECTIONS AT ALL PANELBOARDS. CIRCUIT BREAKERS, POWER OUTLETS, CONVENIENCE OUTLETS, AND SWITCHES SHALL BE MADE FOR A COMPLETE AND OPERABLE SYSTEM.

THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER WIRING AND UNIT DISCONNECT SWITCHES FOR ALL HVAC EQUIPMENT UNLESS OTHERWISE STATED ON PLANS.

THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL HVAC CONTROL WIRING. FINAL CONTROL CONNECTIONS SHALL BE BY THE HVAC CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL VERIFY VOLTAGE, PHASE, AND CURRENT CHARACTERISTICS OF ALL HVAC EQUIPMENT BEFORE INSTALLATION OF ANY CONDUIT WIRE, DISCONNECTS, ETC.

LOCATE ALL OUTLETS AS INDICATED ON PLANS WITH MOUNTING HEIGHTS AS SHOWN. COORDINATE INSTALLATION WITH OTHER EQUIPMENT. SECURE OUTLETS TO STRUCTURE. ALL CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET. AVOID UNNECESSARILY SPLICING.

ALL ELECTRICAL EQUIPMENT UNDER THIS CONTRACT SHALL BE LISTED AND CONFORM TO THE APPLICABLE REQUIREMENTS OF THE LATEST EDITION OF THE FOLLOWING PUBLICATIONS:
(1) UNDERWRITER'S LABORATORIES, INC. - UL.
(2) NATIONAL FIRE PROTECTION ASSOCIATION - NFPA
(3) NATIONAL ELECTRICAL MANUFACTURER'S ASSOC. - NEMA
(4) NATIONAL ELECTRICAL CODE - NEC

SHEET METAL BOXES SHALL BE STANDARD TYPE WITH KNOCKOUT MADE OF HOT DIPPED GALVANIZED STEEL AS MANUFACTURED BY STEEL CITY, RACO, OR EQUAL

ALL CIRCUITS TO BE 2 #12, #12 GND UNLESS NOTED.

PANELBOARDS SHALL CONSIST OF COMPLETE DEAD FRONT ASSEMBLIES INCLUDING BACK, CAN, BUS BAR, TRIMS AND DOORS, SHEET METAL CABINET SWITCHING AND OVER CURRENT DEVICES. CIRCUIT BREAKERS SHALL BE MOLDED CASE, THERMAL-MAGNETIC QUICK-MAKE, AND QUICK BREAK TYPE WITH TRIP-FREE HANDLE. MULTI-POLE TYPE WITH INTERNAL COMMON TRIP BAR. CIRCUIT BREAKER SHALL BE SWITCH RATED AND BOLT ON TYPE. SQUARE 'D' TYPE NQOB OR EQUAL BE G.E., SIEMENS, & SQUARE D.

PROPERLY IDENTIFY ALL SWITCH AND DEVICES WITH A PLASTIC NAMEPLATE.

USE ONLY APPROVED LUBRICANT FOR WIRE PULLING PURPOSES.

SUPPORT OF ALL LIGHT FIXTURES SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. LIGHT FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE. LAY-IN LIGHT FIXTURES SUPPORTED ENTIRELY BY CEILING GRID SYSTEM SHALL HAVE "HURRICANE" CLIPS FASTENED TO CEILING GRID.

SAFETY SWITCHES AND DISCONNECTS SHALL BE INSTALLED WHERE INDICATED ON PLANS OR WHERE OTHERWISE REQUIRED BY CODE ENFORCING AUTHORITIES. THEY SHALL BE INSTALLED WITH ADEQUATE HAND ACCESS TO AND CLEARANCE FOR OPERATION AND FUSE REPLACEMENT. EACH SWITCH SHALL HAVE ENGRAVED PLASTIC NAMEPLATES INSTALLED THEREON.

DISCONNECT SWITCHES: HEAVY DUTY, ENCLOSED SAFETY SWITCHES, QUICK-MAKE, AND QUICK-BREAK TYPE WITH INTERLOCKED COVER AND TYPE ENCLOSE REQUIRED FOR THE LOCATION. FUSED TYPE SHALL BE EQUIPPED WITH REJECTION TYPE FUSES. SQUARE 'D', GE, ITE, CUTLER HAMMER.

ALL EXHAUST FANS SHALL HAVE DISCONNECT SWITCHES.

ALL REMOTE EQUIPMENT ON ROOF OR GROUNDS SHALL HAVE A DISCONNECT SWITCH AT EACH PIECE OF EQUIPMENT.

ALL CONDUITS SHALL BE A MINIMUM OF 1/2" DIAMETER UNLESS OTHERWISE NOTED. ALL HOMERUN CONDUITS SHALL BE A MINIMUM OF 3/4" DIAMETER UNLESS OTHERWISE NOTED. ALL CONDUITS IN SLABS OR UNDERGROUND SHALL BE A MINIMUM OF 3/4" DIAMETER SCHEDULE 40 PVC UNLESS OTHERWISE NOTED.

WIRING DEVICES: ALL DEVICES SHALL BE SPECIFICATION GRADE OF THE SAME MANUFACTURER.

WALL SWITCHES SHALL BE SINGLE POLE 20 AMP 120/277 VOLT, DUPLEX RECEPTACLES SHALL BE 2 WIRE 3 POLE GROUNDED 120 VOLT 20 AMP. RECEPTACLES MOUNTED IN FIRE OR SMOKE RATED WALLS SHALL BE MINIMUM 25" APART.

ALL CONDUITS TO BE 90 DEGREE WHERE PENETRATING FIRE OR SMOKE RATED WALLS SO THEY CAN BE PROPERLY CAULKED.

ALL EXTERIOR RECEPTACLES, JUNCTION BOXES, LIGHTS, AND OTHER DEVICES SHALL BE LISTED FOR OUTDOOR APPLICATION AND SHALL HAVE WEATHER PROOF COVERS.

CIRCUIT NUMBERS ARE FOR IDENTIFICATION ONLY. THE CONTRACTOR WILL BE RESPONSIBLE FOR CORRECTLY PHASING THE CIRCUITS IN THE PANELS. HOMERUNS OF SIMILAR SINGLE PHASE CIRCUITS MAY BE COMBINED IN ONE CONDUIT WITH A COMMON NEUTRAL. ONLY THREE SINGLE PHASE CIRCUITS MAY BE COMBINED IN ANY ONE CONDUIT.

ON COMPLETION OF THE BUILDING, THE CONTRACTOR SHALL BALANCE THE PANEL. PHASE NUMBER OF WIRES MAY NOT BE INDICATED FOR ALL CIRCUITS. ONLY THOSE WHERE CLARIFICATION IS NECESSARY.

THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL WIRES NECESSARY FOR PROPER FUNCTION OF THE SYSTEM WHETHER INDICATED ON PLANS OR NOT.

CONTRACTOR SHALL SECURE ALL PERMITS.

ELECTRICAL DRAWINGS ARE CONSIDERED DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND EXACT LOCATION

ALL SINGLE-PHASE BRANCH CIRCUITS, 120 VOLT LIGHTING, RECEPTACLES, & MOTORS SHALL CONSIST OF PHASE, NEUTRAL & GROUND CONDUCTOR.

ALL EQUIPMENT GROUND WIRES SHALL BE COPPER AND SIZED AS PER NEC ARTICLE 250.

CONTRACTOR SHALL MATCH EXISTING BUILDING STANDARD FIRE ALARM SYSTEM AND EQUIPMENT AS REQUIRED AND EXTEND NEW FIRE ALARM CIRCUITS FROM THE EXISTING FIRE ALARM CONTROL PANEL TO THE NEW FIRE ALARM DEVICES SHOWN AND CONNECT AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM. CONTRACTOR SHALL PROVIDE RE-CERTIFICATION OF THE FIRE ALARM SYSTEM AS REQUIRED AND IN ACCORDANCE WITH NFPA-72 AND THE LOCAL AUTHORITY HAVING JURISDICTION.

PANEL - 'MDF'

VOLTAGE: 208/120 VOLTS, 3 PHASE, 4 WIRE
BUSS RATING: 1400 AMPS
MAIN: 800A MLO
MOUNTING: SEE PLANS

NOTES: "M" INDICATES MACR BREAKER
( ) INDICATES NON-CURRENT AC LOADS - SIZES BASED ON LARGEST LOADS
"G" INDICATES GFIC BREAKER
" * " INDICATES ASSUMED LOADS

LOAD SERVED	LOADS (WATT) LGTS	RECS	MOTOR	HEAT	CKT BRKR AMP/P	CKT No.	PHASE A	B	C	CKT No.	CKT BRKR AMP/P	LOADS (WATT) LGTS	RECS	MOTOR	HEAT	LOAD SERVED
AHU			12480		60/3	1	M	-	-	2	20/2	720				LIGHTING
			12480			3	-	M	-	4		720				
			12480			5	-	-	M	6	20/2	3486				LIGHTING
ACU			6240		30/3	7	M	-	-	8		3486				
			6240			9	-	M	-	10	20/2	720				LIGHTING
			6240			11	-	-	M	12		720				
SPARE						13	M	-	-	14	20/2	4150				LIGHTING
SPARE						15	-	M	-	16		4150				
SPARE						17	-	-	M	18	20/2	4150				LIGHTING
SPARE						19	-	-	-	20		4150				
SPARE						21	-	-	-	22						SPARE
SPARE						23	-	-	-	24						SPARE
SPARE						25	-	-	-	26						SPARE
SPARE						27	-	-	-	28						SPARE
SPARE						29	-	-	-	30						SPARE
SPARE						31	-	-	-	32						SPARE
SPARE						33	-	-	-	34						SPARE
SPARE						35	-	-	-	36						SPARE
SPARE						37	-	-	-	38						SPARE
SPARE						39	-	-	-	40						SPARE
SPARE						41	-	-	-	42						SPARE
	LGTS -	RECS -	MOTOR 18720	HEAT -	SUB TOTALS							LGTS 26452	RECS -	MOTOR -	HEAT -	SUB TOTALS

PHASE LOADING	LGTS	RECS	MOTOR	HEAT
PHASE - A	8356	18300	18720	-
PHASE - B	5590	18300	18720	-
PHASE - C	8356	-	18720	-
	A		B	C
PHASE TOTAL		22302	36604	56160

PHASE LOADING LGTS	RECS	MOTOR	HEAT	
22.3	36.6	56.1	-	CONNECTED KW TOTALS
1.25	26.6	-	-	DEMAND
27.9	26.6	56.1	-	ADJUSTED KW TOTALS
			115	TOTAL CONNECTED KW
			110.6	TOTAL ADJUSTED KW
			208	THREE PHASE VOLTAGE
			642	TOTAL PANEL AMPERAGE

7/11/06

15-Mar-06

REV#	DATE	REVISION NOTES
-		-

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Auth. # 9461

ACTION SIGN & GRAPHICS
COMMERCIAL SITE
LAKE CITY, FL

LIGHTING PLAN

PROJECT NUMBER PF05-365
DRAWN BY T.K.
CHECKED BY G.G.

E-1.0

SHEET #### ####

AIR COOLED HEAT PUMP SCHEDULE

CONDENSING UNIT												ELECTRIC HEAT DATA					
CU LABEL(S)	MANUFACTURER & MODEL NO.	TOTAL CAPACITY COOLING	SENSIBLE CAPACITY COOLING	COIL MODEL NO.	COMP. RLA	FAN FLA	VOLTAGE	MOCP	EER / SEER	WEIGHT	TOTAL BTU	O/A CFM	E.S.P.	BLOWER SPEED	FAN HP	VOLTAGE
AHU #1	YORK - MHC	48,000	39,500	EBLA048	19.2	1.4	240-1-60	35	10.30 / 14.50	442 LBS.	12,000	430	0	HIGH	2.4 HP	240-1-60

GENERAL NOTES:

- ALL RATINGS ARE AT ARI ENTERING CONDITIONS UNLESS OTHERWISE NOTED.
- PROVIDE VIBRATION ISOLATION FOR UNITS.
- EXTERNAL STATIC PRESSURE DOES NOT INCLUDE COIL OR FILTER PRESSURE DROP.
- CONTRATOR MAY SUBSTITUE MANUFACTURER FOR APPROVED EQUAL. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT CLEARANCE REQUIREMENTS ARE MET FOR ANY SUBSTITUTIONS.

ABBREVIATION LEGEND:

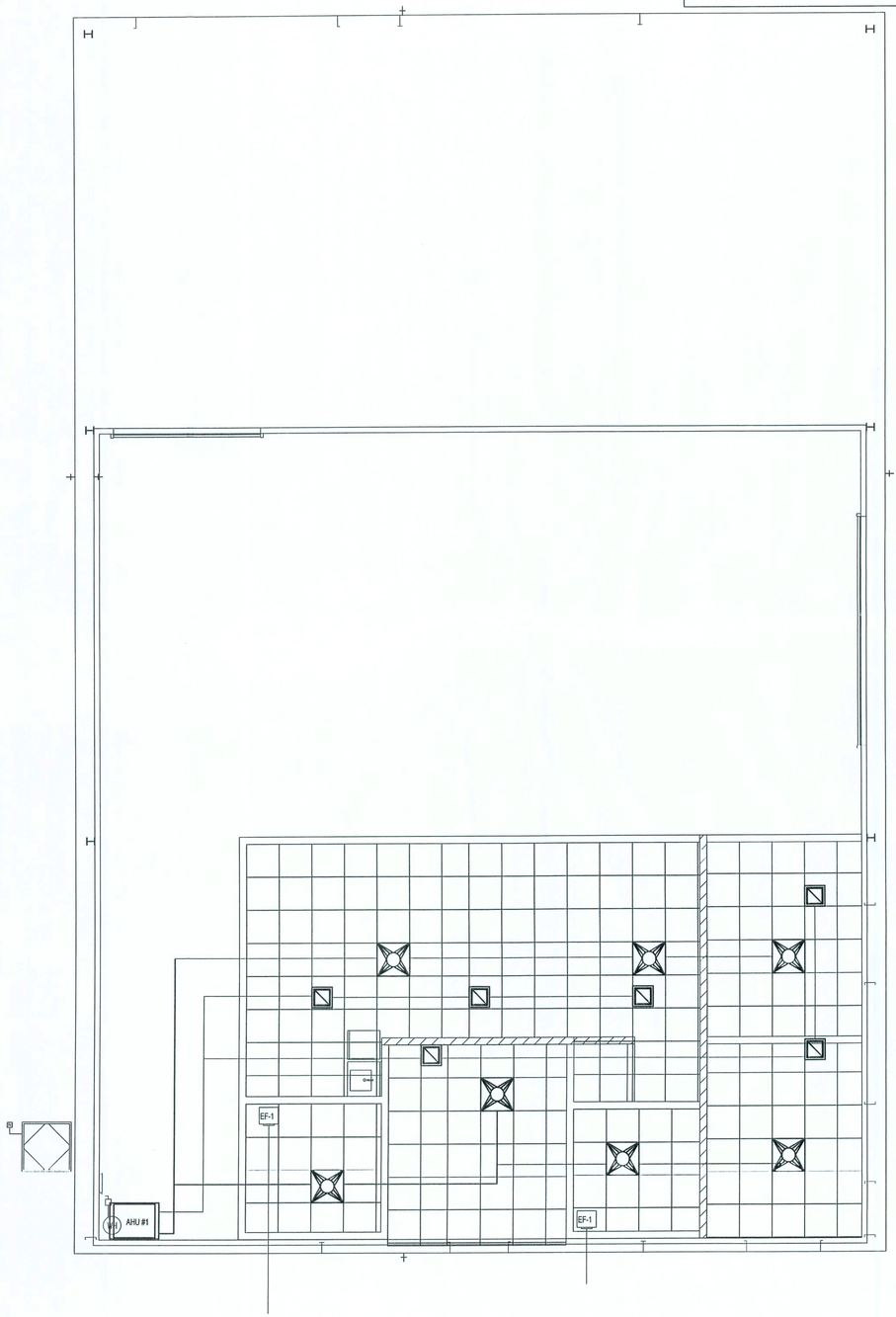
O/A - OUTSIDE AIR
PROTECTION
HP - HORSE POWER
RLA - RUNNING LOAD AMPS
RATED
FLA - FULL LOAD AMPS
RATED

MOCP - MAX. OVERCURRENT (DUAL ELEMENT TYPE FUSE)
E.S.P. - EXTERNAL STATIC PRESSURE
EER - ENERGY EFFICIENCY
SEER - SEASONAL ENERGY EFFICIENCY

SPECIFIC NOTES:

1) SIZE AND RUN OF REFERIGERANT PIPING AS PER MANUFACTURERS PUBLISHED RECOMMENDATIONS.
2) INSULATE REFRIGERANT SUCTION LINE WITH 3/4" ARMAFLEX OR EQUAL.
3) ISTALL FILTER DRYER AND STRAINER IN REFRIGERANT LIQUID LINE.
4) PROVIDE FIELD INSTALLED ACCESSORIES, AND 3 MINUTE TIME DELAY SWITCH.
5) PROVIDE 5 YEAR WARRANTY ON COMPRESSOR AND 1 YEAR WARRANTY ON ALL PARTS AND LABOR.

6) HEATER SHALL BE PROVIDED WITH 24 VOLT CONTROL.



MECHANICAL PLAN
1/4" 1' 0"

GENERAL MECHANICAL NOTES

1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION CODE AND ALL OPTION OF A COMPLETE SYSTEM IN WITH THESE DRAWINGS, THE APPLICABLE BUILDING CODE AND ALL OTHER APPLICABLE STATE, COUNTY AND LOCAL ORDINANCES AND THE LATEST ADDITION OF THE FOLLOWING PUBLICATIONS, ASHREA, NFPA 90A, 90B, 91, AND ANSI B-9.1 MECHANICAL REFRIGERATION.
2. THE CONTRACTOR SHALL PAY ALL COSTS OF PERMIT, INSPECTIONS, AND ALL OTHER COSTS INCIDENTAL TO THE COMPLETION AND TESTING OF THIS WORK.
3. THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. ALL EXECUTION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.
4. THE CONTRACTOR SHALL SUPPLY THE ENGINEER/ARCHITECT WITH AS-BUILT DRAWINGS UPON COMPLETION OF THIS PROJECT.
5. CONTRACTOR SHALL SUBMIT FOR APPROVAL FIVE (5) COPIES OF MANUFACTURER'S DRAWING FOR EACH PIECE OF EQUIPMENT AND CONTROLS INCLUDED IN CONTRACT.
6. ALL MATERIAL SHALL BE NEW OF GOOD QUALITY. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER BY SKILLED WORKMAN.
7. ALL AIR CONDITIONING DUCT SHALL BE OF 1-1/2# STANDARD DUTY FOIL REINFORCED FIBERGLASS WITH MANUFACTURER'S LOGO PRINTED ON THE VAPOR BARRIER. ALL FLEX TO BE R-8.
8. ALL EXHAUST DUCTS AND OUTSIDE AIR DUCTS SHALL BE GALVANIZED SHEET METAL WITH SEALED SEAMS AND JOINTS.
9. DUCT SIZES SHOWN ARE INSIDE DIMENSIONS.
10. ALL AIR DEVICES (DIFFUSERS, REGISTERS, AND GRILLS) SHALL BE ALL ALUMINUM CONSTRUCTION WITH EXPOSED SURFACE OFF WHITE BAKED ENAMEL FINISH OR AS SPECIFIED BY ENGINEER/ARCHITECT. DEVICES SHALL BE TITUS, METALAIRE, AND AIRGUIDE. PROVIDE OPPOSED BLADE DAMPERS AT ALL DIFFUSERS AND REGISTERS.
11. THERMOSTAT SHALL BE COMBINATION COOLING/HEATING, WITH SYSTEM "COOL-AUTO-HEAT-OFF" AND FAN "ON-AUTO" SELECTOR SWITCHES. PROVIDE PROGRAMMABLE TYPE, CARRIER OR EQUAL.
12. REFRIGERANT LINES SHALL BE COPPER, TYPE 'L' HARD DRAWN WITH WROUGHT COOPER SOLDER-JOINT TYPE FITTINGS, USE 95/5 SOLDER. REFRIGERANT LINES SHALL BE SIZED AS PER MANUFACTURER RECOMMENDATIONS.
13. ARMAFLEX 3/4" INSULATION SHALL BE USED FOR SUCTION LINES, FILTER/DRYER AND SIGHT GLASS SHALL BE PROVIDED AT LIQUID LINES.
14. ALL BRANCH TAKE-OFFS TO BE PROVIDED W/MANUAL VOLUME DAMPERS. ALL ELBOWS AND TEE'S MUST BE FURNISHED W/TURNING VANES. PROVIDE 45 DEGREES BRANCH TAKE-OFF AS PER BRANCH DUCT TAKE-OFF DETAIL.
15. PROVIDE NEW FILTERS FOR ALL AIR CONDITIONING EQUIPMENT BEFORE STARTING THEM. REPLACE THEM PRIOR TO ACCEPTANCE BY OWNER.
16. PROVIDE SMOKE DETECTORS WITH ACCESS DOORS IN ALL SUPPLY AIR DUCTS FOR FANS AND AHU'S SERVING A COMMON PLENUM OF 2000 CFM OR ABOVE. ALL SMOKE DETECTORS SHALL BE BY ONE MANUFACTURER, COORDINATE VOLTAGE ETC. WITH ELECTRICAL CONTRACTOR AND FIRE ALARM SYSTEM BEFORE ORDERING.
17. PROVIDE TYPE 'B' FIRE DAMPERS IN ALL DUCTS OR OPENINGS PENETRATING FIRE RATED WALLS, MECHANICAL AND ELECTRICAL ROOMS, TENANT SEPARATION, PARTITIONS, FLOOR OR ROOF SLABS AND AT O/A INTAKES. PROVIDE RADIATION DAMPERS IN RATED CEILING FOR ALL CEILING OPENING, CEILING FANS, DIFFUSERS OR GRILLES RATED FOR USE IN THE CEILING ASSEMBLY.
18. HVAC CONTRACTOR SHALL PROVIDE AN INDEPENDENT TEST AND BALANCE REPORT FOR ALL MECHANICAL EQUIPMENT, AIR DEVICE, DAMPERS, AHU'S AND FANS. THE T&B SHALL BE IN ACCORDANCE WITH THE AIR BALANCE COUNCIL STANDARDS AND SHALL INCLUDE AIR QUANTITIES FOR ALL SUPPLY GRILLS, RETURN GRILLS, AND EXHAUST GRILLS AND LEAVING AND ENTERING AIR TEMPERATURE FROM THE SUPPLY GRILLS AND EVAPORATORS.
19. THERMOSTAT LOCATION SHALL BE APPROVED BY OWNER AND ENGINEER/ARCHITECT BY INSTALLATIDN.
20. ALL INSULATION WILL HAVE FIRE/SMOKE RATING LESS THAN 50/50.
21. MECHANIC PLANS IN GENERAL ARE DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCH., PLUMBING, ELECTRICAL, AND STRUCTURAL PLANS AND SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. DUCT AND PIPING OFFSETS, BENDS AND TRANSITIONS WILL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE FUNCITIONAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
22. NO COMBUSTIBLE MATERIALS ARE ALLOWED IN RETURN AIR PLENUMS OR ABOVE CEILINGS USED AS RETURN AIR PLENUM. IF SPACE WITH RETURN AIR PLENUM HAS ANY DECK PARTITION, AIR TRANSFER DUCTS MUST BE INSTALLED.
23. REFER TO PLUMBING PLAN FOR CONDENSATE PIPING.
24. IF PROJECT IS A REMODEL OF AN EXISTING BUILDING, THE CONTRACTOR SHALL VISIT JOB SITE PRIOR TO CONSTRUCTION AND COORDINATE ALL FIELD CONDITIONS. ENGINEER AND/OR ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES.
25. CONTRACTOR SHALL INSTALL ALL OUTDOOR EQUIPMENT TO WITHSTAND A SUSTAINED 140 MPH WIND WITH A GUST FACTOR OF 30%. PROVIDE A LISTED PRE-ENGINEERED ASSEMBLY, OR CONTRACTOR SHALL BE RESPONSIBLE FOR THE CERTIFICATION OF ROOF MOUNTING.
26. PROVIDE ALL NECESSARY CONTACTS, RELAYS, ETC., FOR A COMPLETE OPERATING A/C SYSTEM.

SCHEDULE	
	A/C UNIT
AHU #1	AIR HANDLER UNIT
EF-1	EXHAUST FAN
	AIR SUPPLY VENT
	AIR RETURN VENT
	SUPPLY DUCT
	RETURN DUCT

15-Mar-06

REV#	DATE	REVISION
-		REVISION NOTES

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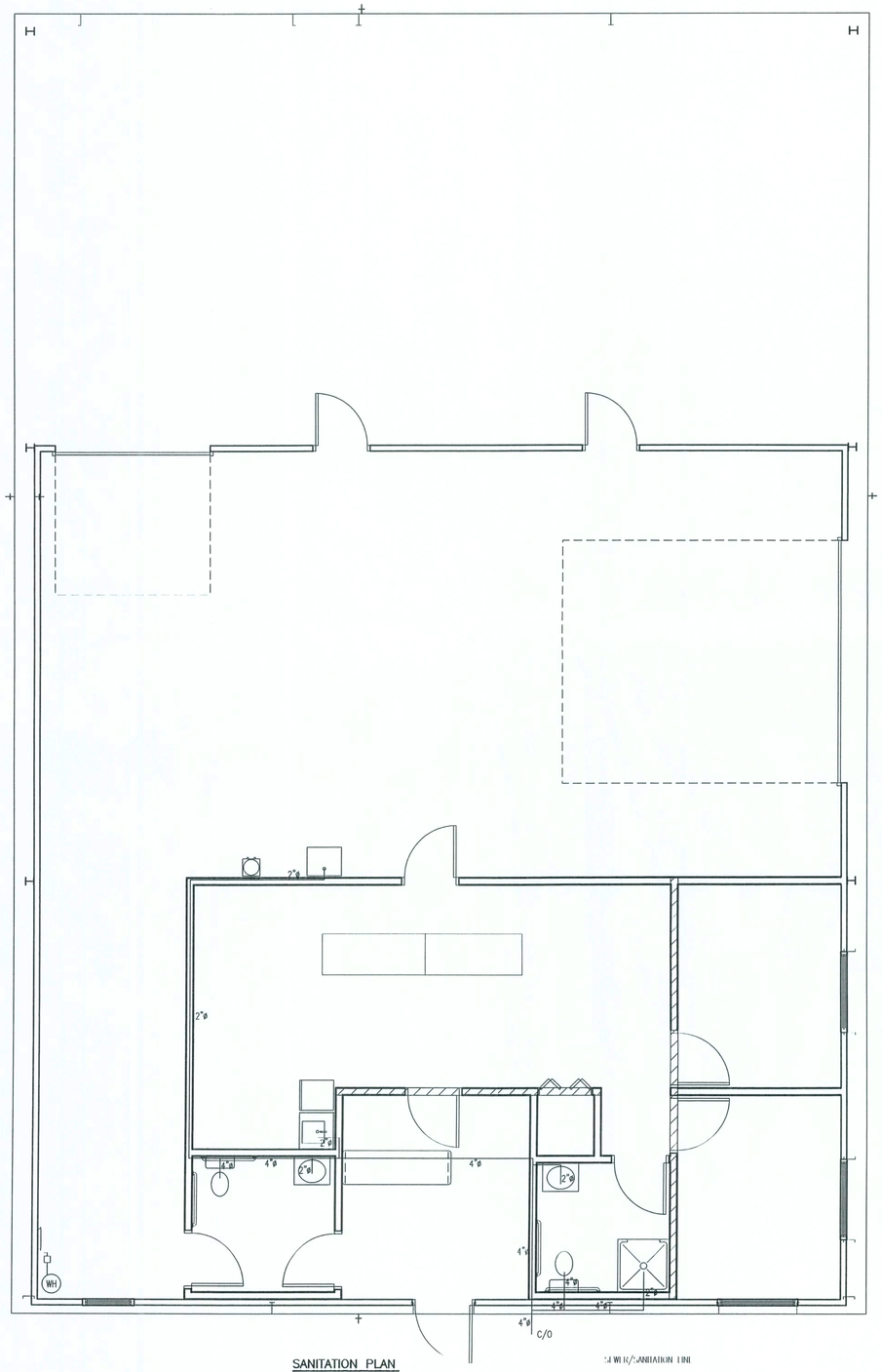
ACTION SIGN & GRAPHICS
COMMERCIAL SITE
LAKE CITY, FL

MECHANICAL PLAN

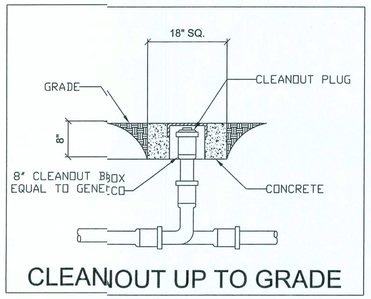
PROJECT NUMBER: PF05-365
DRAWN BY: T.K.
CHECKED BY: G.G.

M-1.0

SHEET #### ####



SANITATION PLAN
1/4" = 1'-0"



CLEANOUT UP TO GRADE

FIXTURES:

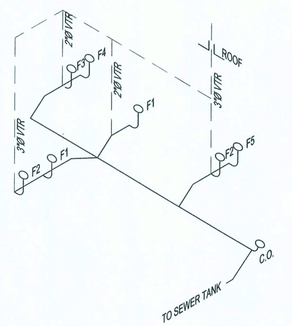
F1 = LAVATORY
F2 = WATER CLOSET
F3 = WATER COOLER
F4 = SINK
F5 = SHOWER

NOTES:

1. SOIL PIPING, VENTS, AND STACK TO BE SCH. 40 PVC.

2. ALL AAV (AIR ADMITTANCE VENT) VALVES TO BE ACCESSIBLE IN CABINETS OR BY ACCESS GRILLE FOR MAINTENANCE.

3. ALL WORK TO BE INSPECTED AND TESTED IN ACCORDANCE WITH LOCAL CODES.



PLUMBING RISER DIAGRAM
SCALE: N.T.S.

1. DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES, EQUIPMENT, ETC., PLUMBING CONTRACTOR SHALL FURISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE AND ACCEPTABLE WORKING INSTALLATION.
2. ALL WORK AND MATERIAL SHALL COMPLY WITH THE NATIONAL, STATE, AND ALL LOCAL CODES AND ORDINANCES HAVING JURISDICTION.
3. THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. ALL EXECUTION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.
4. ALL MATERIAL SHALL BE NEW.
5. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/ARCHITECT.
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8. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
9. THE PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN (1) ONE YEAR FROM DATE OF ACCEPTANCE. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGES AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE IN THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
10. VERIFY LOCATION, SIZE AND INVERTS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION. ADVISE ENGINEER/ARCHITECT OF ANY DISCREPANCIES.
11. ALL FIXTURES SHALL BE PROVIDED WITH READILY ACCESSIBLE STOPS.
12. WATER PIPING SHALL BE CPVC.
13. SOIL, WASTE, AND VENT PIPING SHALL BE PVC SCHEDULE 40 DMV. WASTE AND VENT PIPING ABOVE SLAB SHALL BE PVC.
14. AIR CONDITIONING CONDENSATE DRAIN PIPING SHALL BE PVC SCHEDULE 40. INSULATE ALL CONDENSATE PIPING EXCEPT EXTERNAL PIPING. ALL PIPING TO BE INSTALLED PER LOCAL CODE.
15. FURNISH AND INSTALL APPROVED AIR CHAMBERSAT EACH PLUMBING FIXTURE AND PDI APPROVED SHACK ARRESTERS ON MAIN LINE AND RISERS.
16. PROVIDE CHROME PLATED COMBINATION COVERED PLATE AND CLEANOUT PLUG FOR ALL WALL CLEANOUTS, JOSAM #58890.
17. INSULATE LINES AS FOLLOWS:
    a. WATER SUPPLY AND RETURNS: 1" THICK ARMAFLEX
    b. CONDENSATE DRAIN: ½" THICK ARMAFLEX

WATER HEATER
SHALL BE Takagi T-M1, TANKLESS, WITH MAX 225KBTU, WITH ¾" WATER CONNECTION AND ¾" GAS CONNECTION. WATER FLOW FATE OF 9.6 GPM.

WC
SHALL BE AN AMERICAN STANDARD MODEL NEW CADET II AQUAMETER 2174.139 ELONGATED TANK 1.6 GPF, VITREOUS CHINA, SIPHON ACTION BOWL, CLOSE-COUPLED TANK, SPEED CONNECT TANK/BOWL COUPLING SYSTEM TOILET AND AN OLSONITE #95 OPEN SEAT LESS COVER.

HC WC
SHALL BE AN AMERICAN STANDARD MODEL NEW CADET II AQUAMETER 2216.143 ELONGATED 18" HIGH, 1.6 GPF, VITREOUS CHINA, SIPHON ACTION BOWL, CLOSE-COUPLED TANK, SPEED CONNECT TANK/BOWL COUPLING SYSTEM TOILET AND AN OLSONITE #95 OPEN SEAT LESS COVER.

KITCHEN SINK
SHALL BE ELKAY LUSTERTONE MODEL DLH-2222-10-C SINGLE BOWL STAINLESS STEEL SELF-RIMMING SINK WITH LK2432 HI-ARC FAUCET TO INCLUDE AN OMNI PRESSURE COMPENSATING 2.0 GPM FLOW RESTRICTOR.

JANITOR SINK
SHALL BE AN AMERICAN STANDARD MODEL FLORWELL 7740.020 ENAMELED CAST IRON SERVICE SINK WITH 7745.011 REMOVABLE VINYL-COATED RIM GUARD, 7721.038 DRAIN WITH STRAINER AND 7298.152 HERITAGE SERVICE SINK FITTING FAUCET TO INCLUDE AN OMNI PRESSURE COMPENSATING VANDAL RESISTANT 2.0 GPM FLOW RESTRICTOR WITH BUCKET HOOKS.

LAV
SHALL BE AN AMERICAN STANDARD MODELRONDALYN 0491.019 VITREOUS CHINA SELF-RIMMING STYLE CLASSIC ROUND SHAPE, PROVIDE A 5401.152H HERITAGE CENTER SET FAUCET TO INCLUDE AN OMNI PRESSURE COMPENSATING 0.5 GPM FLOW RESTRICTOR

HC LAV
SHALL BE AN AMERICAN STANDARD MODELRONDALYN 0491.019 VITREOUS CHINA SELF-RIMMING STYLE CLASSIC ROUND SHAPE, PROVIDE A 5401.172H HERITAGE CENTERSET FAUCET WITH 4" WRIST BLADE HANDLES TO INCLUDE AN OMNI PRESSURE COMPENSATING 0.5 GPM FLOW RESTRICTOR AQUASEAL VALVE AND CHROME FINISH, GRIP DRAIN: OFFSET PERFORATED WHEELCHAIR LAVATORY DRAIN ASSEMBLY WITH 1-1/2" TAILPIECE. MCGUIRE #155WC.

EWC
SHALL BE AN OASIS MODEL PLF8WMEE, 8.0 GPM, 4.8 FLA AT 120 VOLT WITH A 1/5 HP COMPRESSOR

HOSE BIBB

SHALL BE A JOSAM 71000-95 SERIES CAST BRONZE BOX TYPE NON-FREEZE VANDAL PROOF WALL HYDRANT WITH COVER AND CONTROL KEY.

NOTES:
1. ALL PLUMBING FIXTURES SHALL BE AS SPECIFIED OR APPROVED EQUAL.
2. PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURE FOR INDIVIDUAL SHUT-OFF.
3. ALL HANDICAP PLUMBING FIXTURES SHALL BE INSTALLED PER THE LASTED ADA REQUIREMENTS.

15-Mar-06

REV #	DATE	REVISION NOTES
REV#	REVISION DATE	REVISION NOTES
-	-	-

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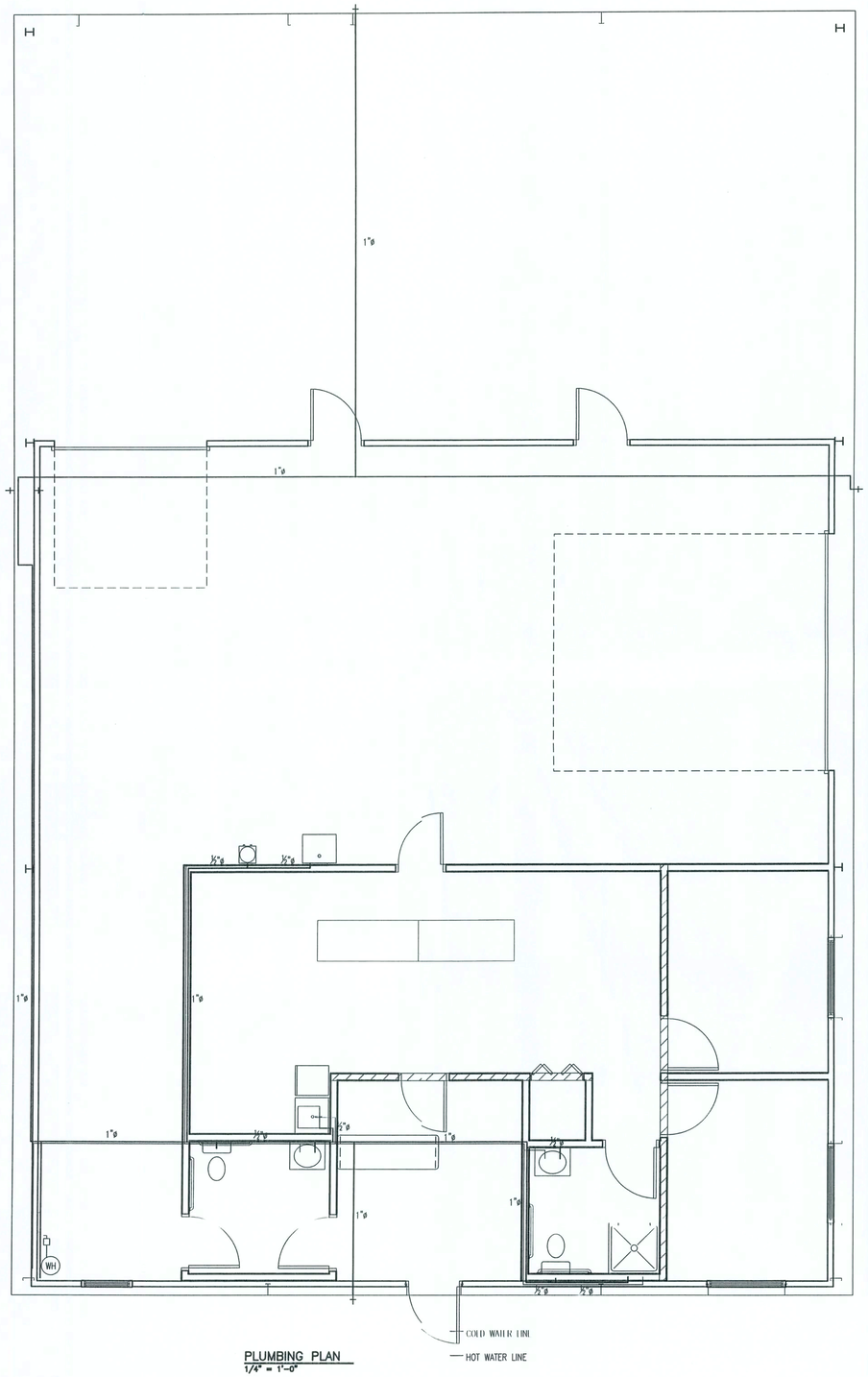
ACTION SIGN & GRAPHICS
COMMERCIAL SITE
LAKE CITY, FL

SANITATION PLAN

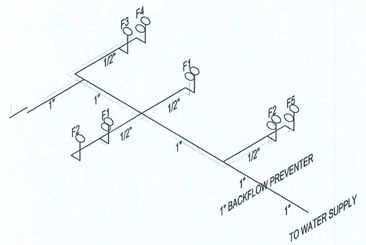
PROJECT NUMBER PF05-365
DRAWN BY T.K.
CHECKED BY G.G.

P-1.0

SHEET #### ####



PLUMBING PLAN
1/4" = 1'-0"



WATER RISER DIAGRAM

SCALE: N.T.S.

FIXTURES:

——— = WASTE
— — — = VENT

F1 = LAVATORY
F2 = WATER CLOSET
F3 = WATER COOLER
F4 = SINK
F5 = SHOWER

NOTES:

1. SOIL PIPING, VENTS, AND STACK TO BE SCH. 40 PVC.

2. ALL AAV (AIR ADMITTANCE VENT) VALVES TO BE ACCESSIBLE IN CABINETS OR BY ACCESS GRILLE FOR MAINTENANCE.

3. ALL WORK TO BE INSPECTED AND TESTED IN ACCORDANCE WITH LOCAL CODES.

1. DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES, EQUIPMENT, ETC,. PLUMBING CONTRACTOR SHALL FURISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE AND ACCEPTABLE WORKING INSTALLATION.
2. ALL WORK AND MATERIAL SHALL COMPLY WITH THE NATIONAL, STATE, AND ALL LOCAL CODES AND ORDINANCES HAVING JURISDICTION.
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4. ALL MATERIAL SHALL BE NEW.
5. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/ARCHITECT.
6. ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY OR PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
7. THE PLUMBING CONTRACTOR SHALL SECURE AND PAY ALL PERMIT FEES, INSPECTIONS, AND TESTS.
8. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
9. THE PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN (1) ONE YEAR FROM DATE OF ACCEPTANCE. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGES AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE IN THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
10. VERIFY LOCATION, SIZE AND INVERTS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION. ADVISE ENGINEER/ARCHITECT OF ANY DISCREPANCIES.
11. ALL FIXTURES SHALL BE PROVIDED WITH READILY ACCESSIBLE STOPS.
12. WATER PIPING SHALL BE CPVC.
13. SOIL, WASTE, AND VENT PIPING SHALL BE PVC SCHEDULE 40 DMV. WASTE AND VENT PIPING ABOVE SLAB SHALL BE PVC.
14. AIR CONDITIONING CONDENSATE DRAIN PIPING SHALL BE PVC SCHEDULE 40. INSULATE ALL CONDENSATE PIPING EXCEPT EXTERNAL PIPING. ALL PIPING TO BE INSTALLED PER LOCAL CODE.
15. FURNISH AND INSTALL APPROVED AIR CHAMBERSAT EACH PLUMBING FIXTURE AND PDI APPROVED SHACK ARRESTERS ON MAIN LINE AND RISERS.
16. PROVIDE CHROME PLATED COMBINATION COVERED PLATE AND CLEANOUT PLUG FOR ALL WALL CLEANOUTS, JOSAM #58890.
17. INSULATE LINES AS FOLLOWS:
    a. WATER SUPPLY AND RETURNS: 1" THICK ARMAFLEX
    b. CONDENSATE DRAIN: ½" THICK ARMAFLEX

VWATER HEATER
SSHALL BE Takagi T-M1, TANKLESS, WITH MAX 225KBTU, WITH ¾" WATER CONNECTION AND ¾" GAS
CCONNECTION. WATER FLOW FATE OF 9.8 GPM.

VWC
SSHALL BE AN AMERICAN STANDARD MODEL NEW CADET II AQUAMETER 2174.139 ELONGATED TANK
1 1.6 GPF, VITREOUS CHINA, SIPHON ACTION BOWL, CLOSE-COUPLED TANK, SPEED CONNECT
TTANK/BOWL COUPLING SYSTEM TOILET AND AN OLSONITE #95 OPEN SEAT LESS COVER.

FHC WC
SSHALL BE AN AMERICAN STANDARD MODEL NEW CADET II AQUAMETER 2216.143 ELONGATED 18"
FHIGH, 1.6 GPF, VITREOUS CHINA, SIPHON ACTION BOWL, CLOSE-COUPLED TANK, SPEED CONNECT
TTANK/BOWL COUPLING SYSTEM TOILET AND AN OLSONITE #95 OPEN SEAT LESS COVER.

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SSHALL BE AN AMERICAN STANDARD MODELRONDALYN 0491.019 VITREOUS CHINA SELF-RIMMING
SSTYLE CLASSIC ROUND SHAPE, PROVIDE A 5401.152H HERITAGE CENTER SET FAUCET TO INCLUDE
AAN OMNI PRESSURE COMPENSATING 0.5 GPM FLOW RESTRICTOR

FHC LAV
SSHALL BE AN AMERICAN STANDARD MODELRONDALYN 0491.019 VITREOUS CHINA SELF-RIMMING
SSTYLE CLASSIC ROUND SHAPE, PROVIDE A 5401.172H HERITAGE CENTERSET FAUCET WITH 4" WRIST
BBLADE HANDLES TO INCLUDE AN OMNI PRESSURE COMPENSATING 0.5 GPM FLOW RESTRICTOR
AAQUASEAL VALVE AND CHROME FINISH, GRIP DRAIN: OFFSET PERFORATED WHEELCHAIR
LLAVATORY DRAIN ASSEMBLY WITH 1-1/2" TAILPIECE. MCGUIRE #155WC.

FFWC
SSHALL BE AN OASIS MODEL PLF8WMEL, 8.0 GPM, 4.8 FLA AT 120 VOLT WITH A 1/5 HP COMPRESSOR

HHOSE BIBB

SSHALL BE A JOSAM 71000-95 SERIES CAST BRONZE BOX TYPE NON-FREEZE VANDAL PROOF WALL
HHYDRANT WITH COVER AND CONTROL KEY.

NNOTES:
1. ALL PLUMBING FIXTURES SHALL BE AS SPECIFIED OR APPROVED EQUAL.
2. PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURE FOR INDIVIDUAL SHUT-OFF.
3. ALL HANDICAP PLUMBING FIXTURES SHALL BE INSTALLED PER THE LASTED ADA REQUIREMENTS.

15-Mar-06

REVISION NOTES

REV#	DATE	REVISION NOTES
-		-

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STRUCTURAL/CIVIL ENGINEERS
Gary Gill, PE
Auth. # 9461

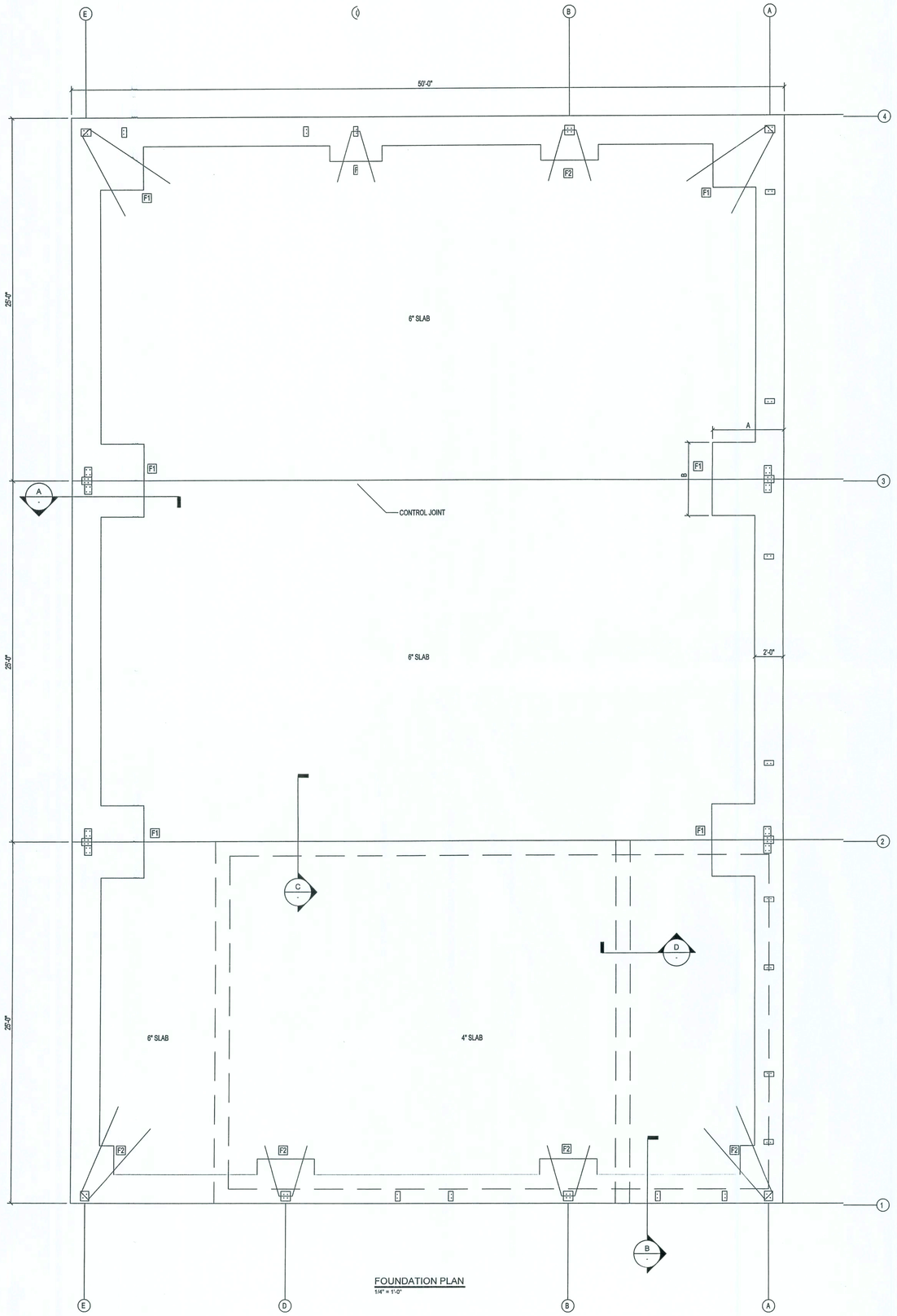
ACTION SIGN & GRAPHICS
COMMERCIAL SITE
LAKE CITY, FL

PLUMBING PLAN

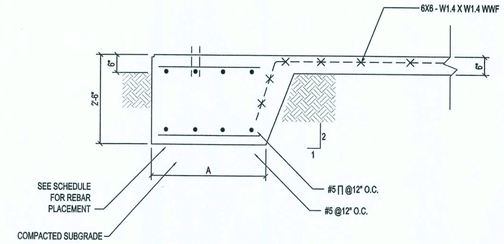
PROJECT NUMBER PF05-365
DRAWN BY T.K.
CHECKED BY G.G.

P-2.0

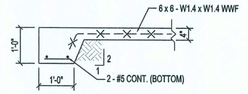
SHEET #### ####



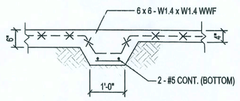
FOUNDATION PLAN
1/4" = 1'-0"



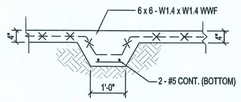
A FOOTING SECTION
1/2" = 1'-0"



B SECTION
1/2" = 1'-0"



C SLAB THICKNESS CHANGE
1/2" = 1'-0"



D BEARING WALL FOOTER
1/2" = 1'-0"

FOOTING SCHEDULE					
I.D	A	B	C	BOTTOM REBAR	TOP REBAR
F1	5'-0"	5'-0"	2'-6"	5- #5 E.W.	5- #5 E.W.
F2	4'-0"	3'-0"	2'-6"	4- #5 E.W.	4- #5 E.W.

15-Mar-06

REV #	DATE	REVISION NOTES
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ACTION SIGN & GRAPHICS
COMMERCIAL SITE
LAKE CITY, FL

FOUNDATION PLAN

PROJECT NUMBER PF05-365
DRAWN BY T.K.
CHECKED BY G.G.

S-1.0

SHEET #### ####

DESIGN CRITERIA

DESIGN PER 2004 FLORIDA BUILDING CODE, UNLESS OTHERWISE NOTED.

LIVE LOADS:

ROOFS AND CANOPIES:	0 TO 200 SF	16PSF
	201 TO 600 SF	14PSF
	OVER 600 SF	12PSF
STAIRS		100PSF
FLOORS		50PSF
CORRIDORS		80PSF
LOBBIES		80PSF
BALCONIES		60PSF
PARTITION LOAD (DEAD LOAD)		20PSF

WIND LOADS:

BASIC WIND SPEED: (ASCE 7)	110 MPH
MEAN ROOF HEIGHT	21 FT
WIND IMPORTANCE FACTOR (CATEGORY II)	1.0
WIND EXPOSURE	B
ENCLOSURE CLASSIFICATION	ENCLOSED
INTERNAL PRESSURE COEFFICIENT	±0.18
DIRECTIONALITY FACTOR (Kd)	0.85
SHAPE FACTORS	PER CODE

THIS BUILDING IS NOT LOCATED IN THE WIND BORNE DEBRIS REGION. IMPACT RESISTANT GLAZING IS NOT REQUIRED.

DESIGN WIND PRESSURES FOR COMPONENTS & CLADDING:

WALLS & WALL OPENINGS

TRIBUTARY AREA	INTERIOR ZONE (> 6.3 ft FROM BLDG. CORNER)	END ZONE (< 6.3 ft FROM BLDG. CORNER)
10 sf	-23.61 /21.7	-29.2 / 21.77
25 sf	-22.31 / 20.5	-26.55 / 20.5

(LINEARLY INTERPOLATE BETWEEN STATED VALUES)

ROOFS &ROOF OPENINGS

TRIBUTARY AREA	INTERIOR ZONE (> 6.3 ft FROM BLDG. CORNER)	END ZONE (< 6.3 ft FROM BLDG. CORNER)
10 sf	-21.77/19.92	-25.46 / 19.92
25 sf	-20.30 / 19.19	-23.99 / 19.19

(LINEARLY INTERPOLATE BETWEEN STATED VALUES)

CONCRETE (DESIGN PER CURRENT EDITION ACI 318)

SLAB ON GRADE	F'C= 4000 PSI
FOOTINGS	F'C= 3000 PSI
ALL OTHER CONCRETE	F'C= 3000 PSI

ALL REINFORCING STEEL ASTM A615 GRADE 60

ALL WELDED WIRE FABRIC ASTM A185

CONCRETE MASONRY (DESIGN PER CURRENT EDITION ACI 530)

COMPRESSIVE STRENGTH	F'M= 1500 PSI

STRUCTURAL STEEL (DESIGN PER CURRENT EDITION AISC), UNLESS OTHERWISE NOTED MATERIALS SHALL BE AS FOLLOWS:

W-SHAPES	ASTM 992, Fy=50 KSI
OTHER SHAPES & PLATES	ASTM A36, Fy=36 KSI
HSS SQUARE & RECTANGULAR SHAPES	ASTM A500 GRADE B, Fy= 46 KSI
HSS ROUND SHAPES	ASTM A500 GRADE B, Fy= 42 KSI
STEEL PIPES	ASTM A53 GRADE B, Fy= 35 KSI
WELDING ELECTRODES	AWS A5.1 OR A5.5 SERIES E70
HIGH-STRENGTH BOLTS	¾"Ø ASTM A325
ANCHOR RODS	GRADE 36 ASTM F1554
WELDED STUDS	ASTM A108
DEFORMED BARS	ASTM A496
PAINT & PROTECTION	SSPC PAINT 25

SOIL BEARING (DESIGN MAXIMUM): REFER TO GEOTECHNICAL REPORT FOR ALLOWABLE BEARING PRESSURE

GENERAL NOTES

CONCRETE

UNLESS OTHERWISE NOTED ON THE DRAWINGS, MINIMUM COVER FOR REINFORCING SHALL BE AS FOLLOWS:

FOOTINGS	3"
PILE CAPS	SEE TYPICAL DETAIL
GRADE BEAMS	3"
COLUMNS AND PEDESTALS (OVER VERTICAL REINF)	2"
SLABS AND WALLS (EXPOSED TO EARTH, LIQUID OR WEATHER)	2"
SLABS AND WALLS (NOT EXPOSED TO EARTH, LIQUID OR WEATHER)	¾"
CANOPY SLABS	1 ½"
BEAMS (OVER MAIN REINFORCING)	1 ½"

ALL REINFORCING SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES IN CONFORMANCE WITH CRSI MANUAL OF STANDARD PRACTICE AND ACI 315 DURING THE PLACEMENT OF CONCRETE.

UNLESS OTHERWISE NOTED, SPLICES IN REINFORCING, WHERE PERMITTED, SHALL BE AS FOLLOWS:

WELDED WIRE FABRIC	WIRE SPACING PLUS 6"
REINFORCING BARS	40 BAR DIAMETERS

ALL HOOKS IN REINFORCING BARS SHALL BE AN ACI STANDARD HOOK, UNLESS OTHERWISE NOTED.

FOUNDATIONS

IF FOOTING EVALUATIONS SHOWN OCCUR IN A DISTURBED, UNSTABLE, OR UNSUITABLE SOIL, THE ENGINEER SHALL BE NOTIFIED.

STEPS IN WALL FOOTINGS SHALL NOT EXCEED A SLOPE OF (1) VERTICAL TO TWO (2) HORIZONTAL

PROVIDE A MINIMUM OF TWO #4 BARS IN TOP OF CONTINUOUS WALL FOOTINGS AT DOOR AND OTHER OPENINGS, 4'-0" LONGER THAN THE OPENING.

NOTES:
1) ALL CONNECTORS LISTED ARE SIMPSON STRONG-TIE, UON. OTHER MANUFACTURERS MAY BE SUBSTITUTED. SCREW SIZE AND NUMBER SHALL BE IN ACCORDANCE WITH MANUFACTURER'S CATALOG. ROOF TRUSS CLIPS SHALL BE SELECTED TO PROVIDE THE UPLIFT RESISTANCE SHOWN ON THE ROOF TRUSS SHOP DRAWINGS.
2) TRUSS ENGINEER MAY PROVIDE ALTERNATE CONNECTIONS.

SUPPLEMENTARY NOTES

PROVIDE ALL TEMPORARY BRACING, SHORING, GUYING OR OTHER MEANS TO AVOID EXCESSIVE STRESSES AND TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION. THE STRUCTURE SHOULD NOT BE CONSIDERED STABLE UNTIL ALL STRUCTURAL ELEMENTS HAVE BEEN CONSTRUCTED.

VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR EMBEDS, OPENINGS, SLEEVES, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS.

ALL STRUCTURAL OPENINGS AROUND OR AFFECTED BY MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT SHALL BE VERIFIED WITH EQUIPMENT PURCHASED BEFORE PROCEEDING WITH STRUCTURAL WORK AFFECTED.

EMBEDMENT FOR EXPANSION BOLTS SHALL BE 3 ½"Ø MINIMUM FOR ¾" BOLTS IN CONCRETE, 5 ½" IN GROUTED MASONRY. HILTI KWIK BOLT II OR EQUAL.

EPOXY GROUT SHALL BE POWER FAST CARTRIDGE SYSTEM BY RAWL, HY150 CARTRIDGE SYSTEM BY HILTI: (HILTI RE500, IF HOLE IS CORED INSTEAD OF DRILLED) OR APPROVED EQUAL, UON. EMBEDMENT SHALL BE 12 BAR DIAMETERS MINIMUM, UON. HOLES SHALL BE ⅛" LARGER THAN REBAR SIZE, AND ⅛" LARGER THAN THREADED ROD SIZE. HOLE SHALL BE BRUSHED OUT WITH BOTTLE BRUSH AND THEN BLOWN OUT WITH AIR USING A COMPRESSOR WITH A FUNCTIONAL OIL TRAP. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS PRINTED INSTRUCTIONS.

ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF AN ENGINEER IN THE STATE OF THE PROJECT.

GENERAL CONTRACTOR MUST REVIEW AND APPROVE SHOP DRAWINGS PRIOR TO SUBMITTAL TO ARCHITECT / ENGINEER. SUBMITTALS WHICH DO NOT CONTAIN THE CONTRACTOR'S SHOP DRAWING STAMP OR HAVE BEEN MERELY "RUBBER STAMPED" SHALL BE RETURNED WITHOUT REVIEW.

CHANGES TO THE CONTRACT DOCUMENTS SHALL BE CLOUDED ON SHOP DRAWINGS OR REQUESTED IN WRITING. THE CONTRACTOR IS LIABLE FOR ANY DEVIATIONS UNLESS REVIEWED AND ACKNOWLEDGED BY THE ENGINEER. SHOP DRAWING SUBMITTALS SHALL ONLY BE CHECKED FOR CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION SHOWN ON THE CONSTRUCTION DOCUMENTS.

SPECIFICATIONS

CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 301. "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (LATEST EDITION). EXCEPT AS MODIFIED BY REQUIREMENTS OF THE CONTRACT DOCUMENTS.

MASONRY CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS", AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS", AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", AND AWS D1.1" "STRUCTURAL WELDING CODE", EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

A GEOTECHNICAL TESTING AND INSPECTION FIRM SHALL BE EMPLOYED TO PERFORM A SOIL SURVEY FOR SATISFACTORY AOIL MATERIALS, SAMPLING AND TESTING FOR QUALITY CONTROL AS PER THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT FOR THIS PROJECT. ALL EARTHWORK OPERATIONS SHALL BE PERFORMED TO THE SATISFACTION OF THE GEOTECHNICAL TESTING FIRM.

TERMITE PROTECTION NOTES:

SOIL CHEMICAL BARRIER METHOD:

1. A PERMANENT SIGN WHICH IDENTIFIES THE TERMITE TREATMENT PROVIDER AND NEED FOR REINSPECTION AND TREATMENT CONTRACT RENEWAL SHALL BE PROVIDED. THE SIGN SHALL BE POSTED NEAR THE WATER HEATER OR ELECTRIC PANEL. FBC 104.2.6

2. CONDENSATE AND ROOF DOWNSPOUTS SHALL DISCHARGE AT LEAST 1'-0" AWAY FROM BUILDING SIDE WALLS. FBC 1503.4.4

3. IRRIGATION/SPRINKLER SYSTEMS INCLUDING ALL RISERS AND SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 1'-0" FROM BUILDING SIDE WALLS. FBC 1503.4.4

4. TO PROVIDE FOR INSPECTION FOR TERMITE INFESTATION, BETWEEN WALL COVERINGS AND FINAL EARTH GRADE SHALL NOT BE LESS THAN 6". EXCEPTION: PAINT AND DECORATIVE CEMENTIOUS FINISH LESS THAN 5/8" THICK ADHERED DIRECTLY TO THE FOUNDATION WALL. FBC 1403.1.6

5. INITIAL TREATMENT SHALL BE DONE AFTER ALL EXCAVATION AND BACKFILL IS COMPLETE. FBC 1816.1.1

6. SOIL DISTURBED AFTER THE INITIAL TREATMENT SHALL BE RETREATED INCLUDING SPACES BOXED OR FORMED. FBC 1816.1.2

7. BOXED AREAS IN CONCRETE FLOOR FOR SUBSEQUENT INSTALLATION OF TRAPS, ETC., SHALL BE MADE WITH PERMANENT METAL OR PLASTIC FORMS. PERMANENT FORMS MUST BE OF A SIZE AND DEPTH THAT WILL ELIMINATE THE DISTURBANCE OF SOIL AFTER THE INITIAL TREATMENT. FBC 1816.1.3

8. MINIMUM 6 MIL VAPOR RETARDER MUST BE INSTALLED TO PROTECT AGAINST RAINFALL DILUTION. IF RAINFALL OCCURS BEFORE VAPOR RET- ARDER PLACEMENT, RETREATMENT IS REQUIRED. FBC 1816.1.4

9. CONCRETE OVERPOUR AND MORTAR ALONG THE FOUNDATION PERIMETER MUST BE REMOVED BEFORE EXTERIOR SOIL TREATMENT. FBC 1816.1.5

10. SOIL TREATMENT MUST BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRADE WITHIN 1'-0" OF THE STRUCTURE SIDEWALLS. FBC 1816.1.6

11. AN EXTERIOR VERTICAL CHEMICAL BARRIER MUST BE INSTALLED AFTER CONSTRUCTION IS COMPLETE INCLUDING LANDSCAPING AND IRRIGATION. ANY SOIL DISTURBED AFTER THE VERTICAL BARRIER IS APPLIED, SHALL BE RETREATED. FBC 1816.1.6

12. ALL BUILDINGS ARE REQUIRED TO HAVE PER-CONSTRUCTION TREATMENT. FBC 1816.1.7

13. A CERTIFICATE OF COMPLIANCE MUST BE ISSUED TO THE BUILDING DEPART- MENT BY # LICENSED PEST CONTROL COMPANY BEFORE A CERTIFICATE OF OCCUPANCY WILL BE ISSUED. THE CERTIFICATE OF COMPLIANCE SHALL STATE: "THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. THE TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES". FBC 1816.1.7

14. AFTER ALL WORK IS COMPLETED, LOOSE WOOD AND FILL MUST BE REMOVED FROM BELOW AND WITHIN 1'-0" OF THE BUILDING. THIS INCLUDES ALL GRADE STAKES, TUB TRAP BOXES, FORMS, SHORING OR OTHER CELLULOSE CONTAINING MATERIAL. FBC 2303.1.3

15. NO WOOD, VEGETATION, STUMPS, CARDBOARD, TRASH, ETC., SHALL BE BURIED WITHIN 15'-0" OF ANY BUILDING OR PROPOSED BUILDING. FBC 2303.1.4

3/14/06

REVISION NOTES

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0	03/15/06	-

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ACTION SIGN & GRAPHICS
NEW CONSTRUCTION
COLUMBIA COUNTY

GENERAL NOTES

PROJECT NUMBER: PF05-365
DRAWN BY: T.K.
CHECKED BY: G.G.
SHEET NUMBER: S-2