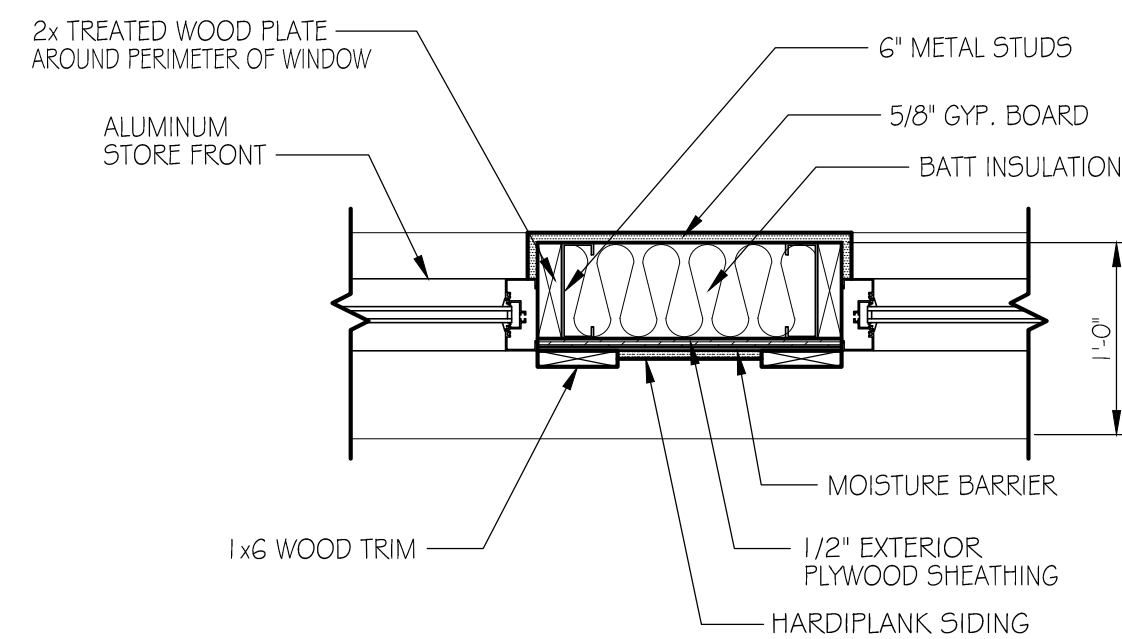
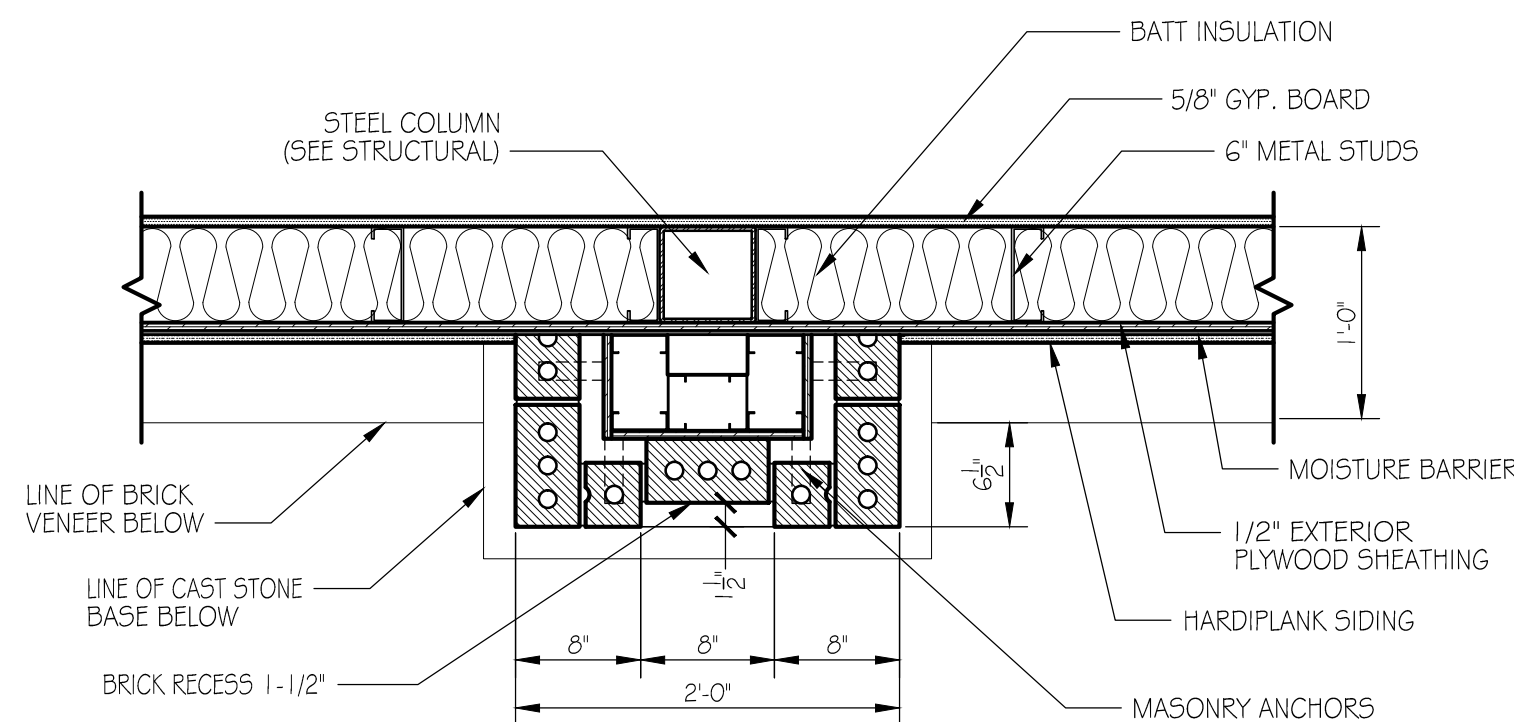


3 PLAN DETAIL
SCALE: 1" = 1'-0"

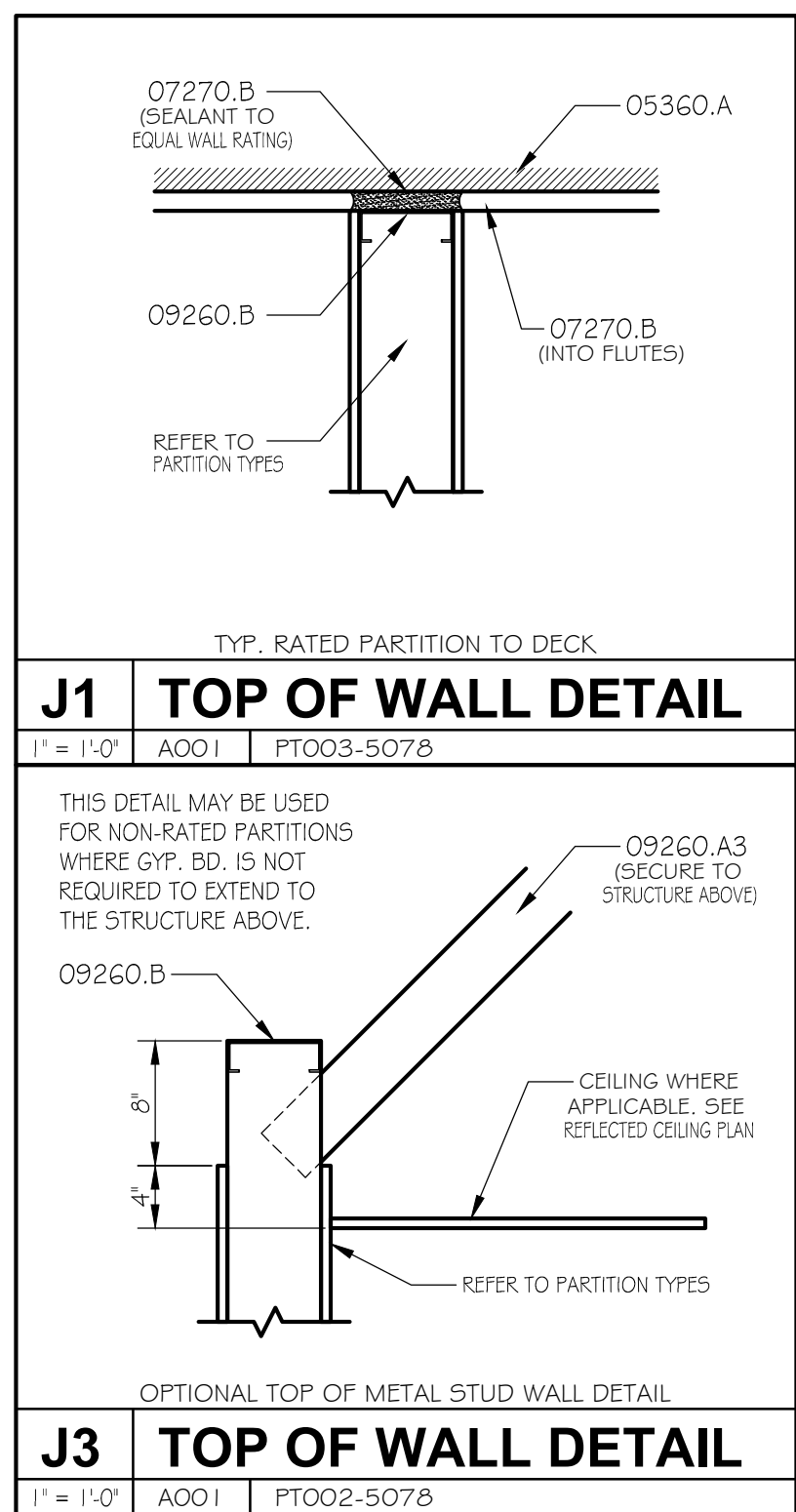


4 PLAN DETAIL
SCALE: 1" = 1'-0"

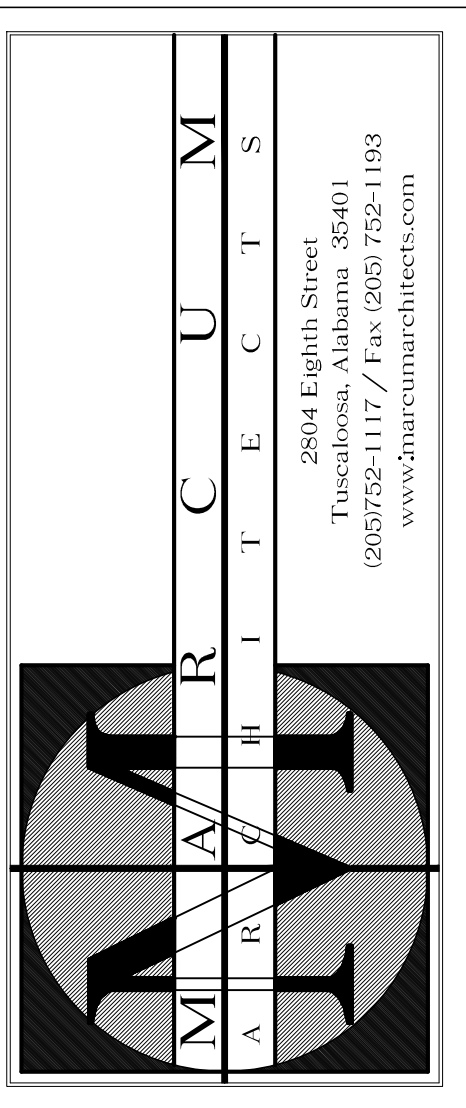
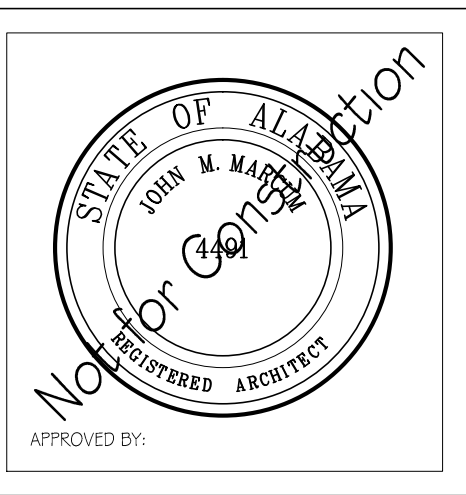


5 PLAN DETAIL
SCALE: 1" = 1'-0"

PARTITION TYPES	
W-1	6" 20 GA. METAL STUDS @ 16" O.C. W/ ONE LAYER OF 5/8" GYP. BD. ON EA. SIDE. EXTEND STUD AND GYP. BD. TO STRUCTURE. BATT INSUL.
W-2	3-5/8" 20 GA. METAL STUDS @ 16" O.C. W/ ONE LAYER OF 5/8" GYP. BD. ON EACH SIDE. EXTEND STUD TO STRUCTURE ABOVE. BATT INSUL.



VERIFY SCALES
BAR IS ONE INCH
ON ORIGINAL DWG.
IF NOT ONE INCH
ON THIS SHEET
ADJUST SCALE
ACCORDINGLY



A Shopping Center For:

Delchamps LLC.

Tuscaloosa, Alabama

REVISIONS:

FLOOR PLAN

JOB No: 0732

DATE: 10/26/07

SHEET:

A100

1. PLUMBING CONTRACTOR SHALL COMPLY WITH INTERNATIONAL PLUMBING CODE (MOST RECENTLY ADOPTED BY AUTHORITY HAVING JURISDICTION), NFPA, STATE AND LOCAL CODES.

2. PLUMBING CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTION CERTIFICATES.

3. OMISSIONS OR MISDESCRIPTION OF DETAILS OF WORK WHICH ARE EVIDENTLY NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS, OR WHICH ARE CUSTOMARILY PERFORMED, SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH OMISSIONS AND DETAILS OF WORK, BUT THEY SHALL BE PERFORMED AS IF FULLY AND CORRECTLY SET FORTH & DESCRIBED.

4. PORTIONS OF WALLS AND ARCHITECTURAL FEATURES MAY HAVE BEEN OMITTED FROM THIS PLAN FOR CLARITY OF MECHANICAL FEATURES. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF FIXTURES, AND DIMENSIONS.

5. VERIFY FIELD DIMENSIONS. COORDINATE WORK WITH OTHER TRADES TO AVOID INTERFERENCES.

6. LAY OUT PIPING BASICALLY AS SHOWN. MAJOR CHANGES IN LAYOUT MAY BE MADE ONLY WITH WRITTEN CONSENT OF ARCHITECT OR ENGINEER.

7. ALL COMPONENTS USED IN PLENUM SPACES MUST BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL.

8. COLOR OF FIXTURES AND TRIM SHALL BE AS SELECTED BY OWNER.

9. FIXTURES INDICATED AS BARRIER FREE SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA).

10. WATER PIPES SHALL HAVE STOPS AT EACH FIXTURE CONNECTION.

11. PROVIDE ELECTRICAL CONTRACTOR WITH EXACT WIRING REQUIREMENTS. IF ELECTRICAL REQUIREMENTS VARY FROM THOSE INDICATED ON PLANS, PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ASSOCIATED ADDITIONAL COSTS.

12. PLUMBING FIXTURES SHALL BE EQUAL TO FIXTURES SCHEDULED.

13. ALL WATER LINES SHALL BE AS FOLLOWS:

A. LINES BELOW GRADE SHALL BE TYPE "K" SOFT COPPER (UNLESS OTHERWISE SPECIFIED.)

B. LINES ABOVE GRADE SHALL BE TYPE "L" HARD COPPER (UNLESS OTHERWISE SPECIFIED)

C. FITTINGS SHALL BE OF HARD DRAWN COPPER OF ASTM SPEC B-88.

D. ALL JOINTING SHALL BE WITH LEAD-FREE SILVER SOLDER.

14. ALL VENT PIPING WITHIN PLENUM OR AIR-HANDLING SPACES SHALL BE COPPER OR CAST IRON AND SHALL BE LABELED AS "VENT".

15. ALL WATER PIPING ABOVE GRADE SMALLER THAN 1 1/2" SHALL BE INSULATED WITH 1/2" THICK FIBERGLASS WITH AN "R" VALUE OF 3.6. ALL WATER PIPING ABOVE GRADE LARGER THAN 1 1/2" SHALL BE INSULATED WITH 1" THICK FIBERGLASS WITH AN "R" VALUE OF 3.6.

16. ALL WATER LINES SHALL BE CAPPED AND TESTED AT 100 PSI FOR 24 HOURS. ALL WASTE PIPING SHALL BE TESTED WITH A 10' WATER COLUMN FOR A 2 HR PERIOD WITH NO CHANGE IN LEVEL.

17. VENT PIPING SHALL BE LAID OUT SUCH THAT ALL ROOF PENETRATIONS SHALL BE ON BACK SIDE OF ROOF. PAINT EXPOSED VENT PIPING TO MATCH ROOF.

18. COORDINATE ROOF PENETRATIONS WITH ROOFING CONTRACTOR. INSURE THAT WARRANTY REQUIREMENTS OF ROOFING MANUFACTURER ARE SATISFIED.

19. MATERIALS, EQUIPMENT, AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THIS PERIOD SHALL BE CORRECTED AT THE MECHANICAL CONTRACTOR'S EXPENSE. DISINFECTION OF POTABLE WATER SYSTEM - NEW OR REPAIRED WATER SYSTEM SHALL BE PURGED OF DELETERIOUS MATTER AND DISINFECTED PRIOR TO UTILIZATION. THE METHOD TO BE FOLLOWED SHALL BE THAT PRESCRIBED BY THE HEALTH AUTHORITY OR WATER PURVEYOR HAVING JURISDICTION OR, IN THE ABSENCE OF A PRESCRIBED METHOD, THE PROCEDURE DESCRIBED IN EITHER AWWA C651 OR AWWA C652, OR AS DESCRIBED IN SECTION 610 OF INTERNATIONAL PLUMBING CODE 2003.

20. SITE UTILITIES SHALL BE FIELD LOCATED FOR EXACT LOCATION AND ELEVATION BEFORE CONSTRUCTION.

21. ALL SANITARY PIPING BELOW GRADE WITH LESS THAN 2 FEET OF EARTH COVER SHALL BE DUCTILE IRON MATERIAL.

22. WALL HYDRANTS SHALL BE MOUNTED 18" ABOVE FINISHED GRADE.

23. CONTRACTOR WHEN MAKING FINAL CONNECTIONS TO EQUIPMENT AND PLUMBING FIXTURES SHALL FURNISH CUTOFFS, TRAPS, STOPS, FAUCETS, ELBOWS, VACUUM BREAKERS, INSULATION, ETC.

24. CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES TO AVOID ANY SPACING OR ROUTING PROBLEMS.

25. ALL FIXTURES, EQUIPMENT AND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH STATE AND LOCAL CODE REQUIREMENTS.

26. ALL PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE SLEEVED AND/OR PATCHED AS DIRECTED BY THE SPEGIFICATIONS. PATCHING SHALL MATCH FINISH. (SEE ARCH. DRAWINGS). ENSURE THAT ALL PENETRATIONS OF FIRE WALLS ARE PROPERLY FIRESTOPPED.

27. ALL PLUMBING VENTS SHALL BE MINIMUM OF 10'-0" AWAY FROM A/C AIR INTAKES AND WINDOWS.
- PLUMBING GENERAL NOTES

PLUMBING

ACCEPTABLE MANUFACTURERS

Fixtures: Kohler, American Standard, Crane, Eljer, Toto.
Brass Trim: McGuire Engineered Brass Company, Brasscraft.
Floor Drains: Mifab, Jay R. Smith, Zurn, Wade, Josam, Watts.
Faucets: T & S Brass and Bronze Works, Delta Commercial, Chicago Faucet Co., Kohler, Zurn, Symmons.
Shower Stalls: Aqua Bath, Aquarius, Lasco.
Shower Valves: Symmons, Leonard, Powers.

Provide fixtures and trim as a complete unit as required in the individual "P" numbers listed below.

MATERIALS

Faucets: Provide either integral or attached supply stops with nipples.
Caulking: General electric silicon sanitary sealant or equal.
Provide treated wood, polystyrene pipe holder, or metal backing at wall fixtures and fixture trim connecting faucets and valves are rigid to wall.

PLUMBING FIXTURES

- P-1

WATER CLOSET - TANK TYPE - BARRIER FREE

a. Fixture: Toto #CST744SL Drake tank type closet, 1.6 gallon flush.

b. Seat: Toto #SCS34 elongated open front seat less lid.
- P-2

LAVATORY - WALL HUNG-IN BARRIER-FREE

a. Fixture: Toto #LT307.4 wall hung lavatory with 4" centers.

b. Faucet: Chicago #802-317CP.

c. Trim: McGuire #155 WC grid drain with 1-1/4" tailpiece, off set for wheelchair use. #8872 - 1-1/4" P-trap, #H-2165 supply stops.

d. Carrier: Mifab #MC-41 fixture carrier.

e. Thermostatic mixing valve: Powers #e480 tempering valve to be located beneath sink.
- P-3

DRINKING FOUNTAIN (BARRIER-FREE - WALL HUNG)

a. Fixture: Ekoy # EZSTL8C, 8.0 GPH at 90 degrees room temperature, all exposed surfaces to be stainless steel, mount 36" A.F.F. to bubbler.

b. Trim: McGuire #8872 - 1-1/4" p-trap, #HST-2 supply stop. Provide insulation wrap on p-trap.
- P-4

SERVICE SINK - SINGLE COMP. - MOLDED STONE

a. Fixture: Fiat #FL-1 with aluminum legs.

b. Faucet: Chicago #895-317 with 4" wristblades, and swing spout.

c. Trim: McGuire #8912, 1-1/2" p-trap, McGuire #151 drain with 1 1/2" tailpiece, #H-2165 supply stops.
- P-5

WALL HYDRANT (COLD WATER) NON-FREEZE

a. Fixture: Mifab #MHY-20, non-freeze, with vacuum breaker mount 18" A.F.G. Coordinate finish of box face with architect.

EXECUTION

FIXTURE CONNECTIONS

- A. Connect to plumbing fixtures and equipment provided under this fixture specification, architectural drawings, and manufacturer's shop drawings. Provide rough-in connections as shown on drawings.
- B. Use schedule and details on drawings or manufacturer's shop drawings for connection sizes to fixtures.
- C. Mount fixtures rigid to walls as shown on drawings or details.
- D. Provide separate p-trap for each fixture, floor drain, and piece of equipment.
- E. Provide outlet devices which limit the flow of hot water to lavatories and sinks to a minimum of 0.5 GPM, sized as recommended by the manufacturer and as required under ASHRAE Standard 90-75, paragraph 7.7.2 or local or state energy codes.
- F. Install water closets with a minimum of 15" clearance from the centerline of the bowl to each side, from a wall, partition, divider, or another fixture. Barrier free water closets to have 18" clearance.
- G. Water closets shall have a minimum of 21" clearance in front of bowl.
- H. Coordinate dimensions required for minimum fixture clearances with other Divisions.
- I. Caulk around joints at fixtures mounted on wall or floor, or backed up to walls.

TESTING AND CLEANING

- A. Inspect and test work to insure that it is installed in accordance with drawings and is functioning as designed. Test procedures and pressure as required by other sections.
- B. Correct all deficiencies found and retest.

PLUMBING LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	COLD WATER		BALL VALVE
	HOT WATER		CHECK VALVE
	WASTE LINE		UNION IN PIPE
	VENT PIPE		EXTERIOR CLEANOUT
	PIPE TURNED UP	P-1,ETC	FIXTURE IDENTIFICATION
	PIPE TURNED DOWN		

PLUMBING ABBREVIATIONS			
C.W	COLD WATER	E.C.O.	EXTERIOR CLEANOUT
H.W.	HOT WATER	A.F.F.	ABOVE FINISHED FLOOR
V.T.R.	VENT THRU ROOF	A.F.G.	ABOVE FINISHED GRADE
W	WASTE	S.S.	SANITARY SEWER

ELECTRIC WATER HEATER SCHEDULE

SYSTEM	TYPE	NO. REQ'D	MFGR.	MODEL NO.	EWT	LWT	STORAGE CAPACITY	FLOW RECOVERY	TANK SIZE	REMARKS
DOMESTIC (ENH-1)	ELEC	1	RHEEM	EGSP10	40	120	10	10.0 @ 80° RISE	16" X 23"	2.0 KW @ 208/1

FIXTURE CONNECTION SCHEDULE

IDENTITY	FIXTURE		C.W.	H.W.	WASTE
P-1	WATER CLOSET	TANK TYPE - BARRIER FREE	1/2"	--	4"
P-2	LAVATORY	WALL HUNG - BARRIER FREE	1/2 "	1/2 "	1 1/4 "
P-3	DRINKING FOUNTAIN	HI-LO BARRIER FREE	1/2 "	--	1 1/4 "
P-4	SERVICE SINK		1/2 "	1/2 "	2"
P-5	WALL HYDRANT	(COLD WATER) NON-FREEZE	3/4 "	--	--

PUMP SCHEDULE

SYSTEM	TYPE	MANUFACTURER	MODEL NO.	G.P.M.	HEAD FT.	PUMP SUCTION FT.	PUMP DISCHARGE FT.	H.P.	VOLTAGE	REMARKS
GRINDER PUMP (GP-1)	SUBMERSIBLE	ZOELLER	840	10	20	--	--	2	208/3	(1), (2)
GRINDER PUMP (GP-2)	SUBMERSIBLE	ZOELLER	840	20	20	--	--	2	208/3	(1), (2)

- (1) MOUNT NEMA 4X CONTROL PANEL ON EXTERIOR WALL OF BUILDING, ADJACENT TO EXTERIOR DOOR OF EACH TENANT.
- (2) PRE-PACKAGED DUPLEX SYSTEM, OUTDOOR, WITH GUIDE RAIL SYSTEM, FOUR FLOATS, 8' STAINLESS STEEL LIFTING CORDS, 1' LIFT RODS, BASIN 36" DIA. x 60" DEEP. FIELD VERIFY EXACT LOCATION AND INSTALL TRAFFIC RATED ACCESS COVER OVER BASIN IF REQUIRED.

APPROVED BY:

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Tuscaloosa, Alabama

REVISIONS:

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Mechanical & Electrical
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Project# 07106

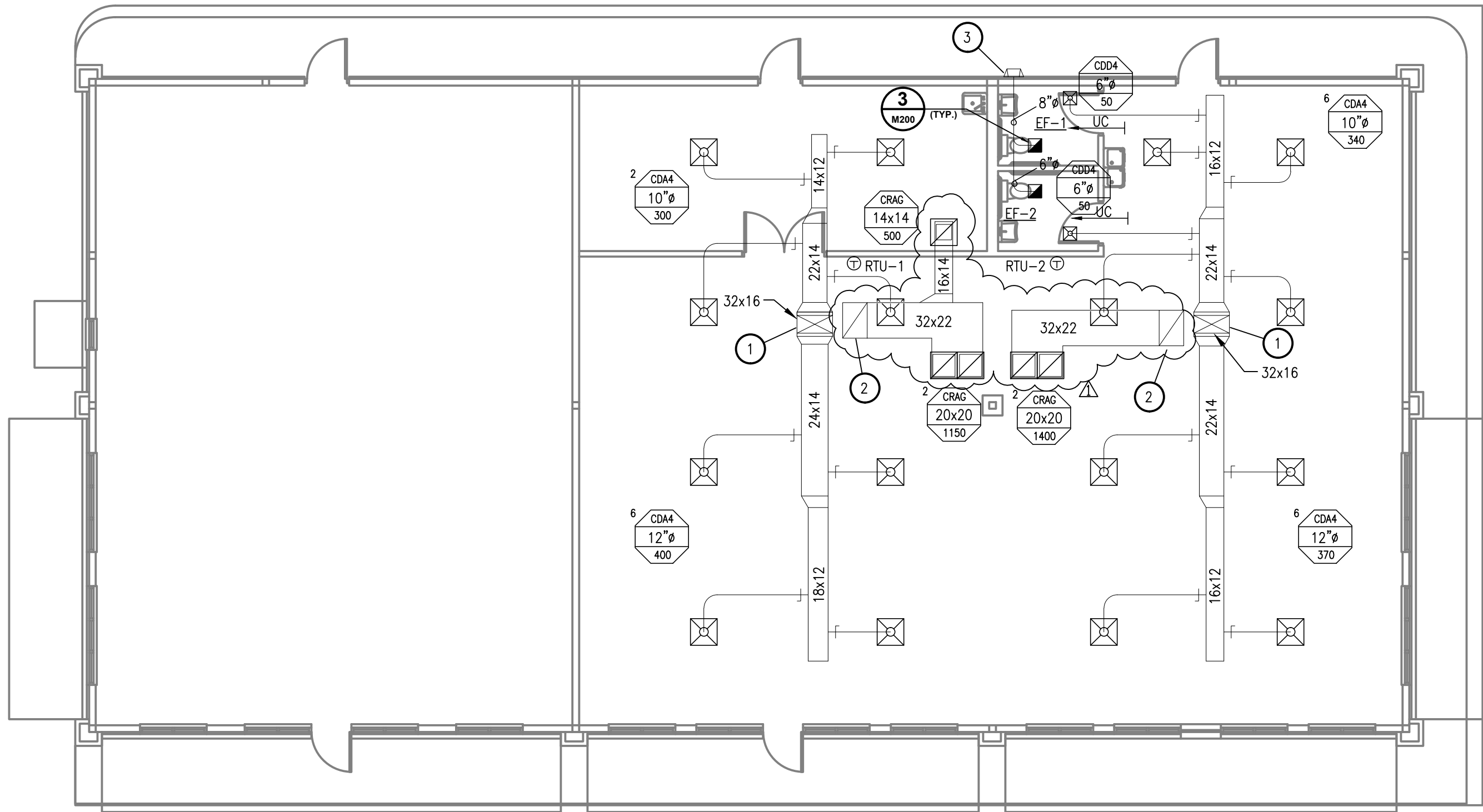
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PLUMBING LEGEND
& SCHEDULES
JOB No: 0732
DATE: 03/25/08
SHEET:
P100

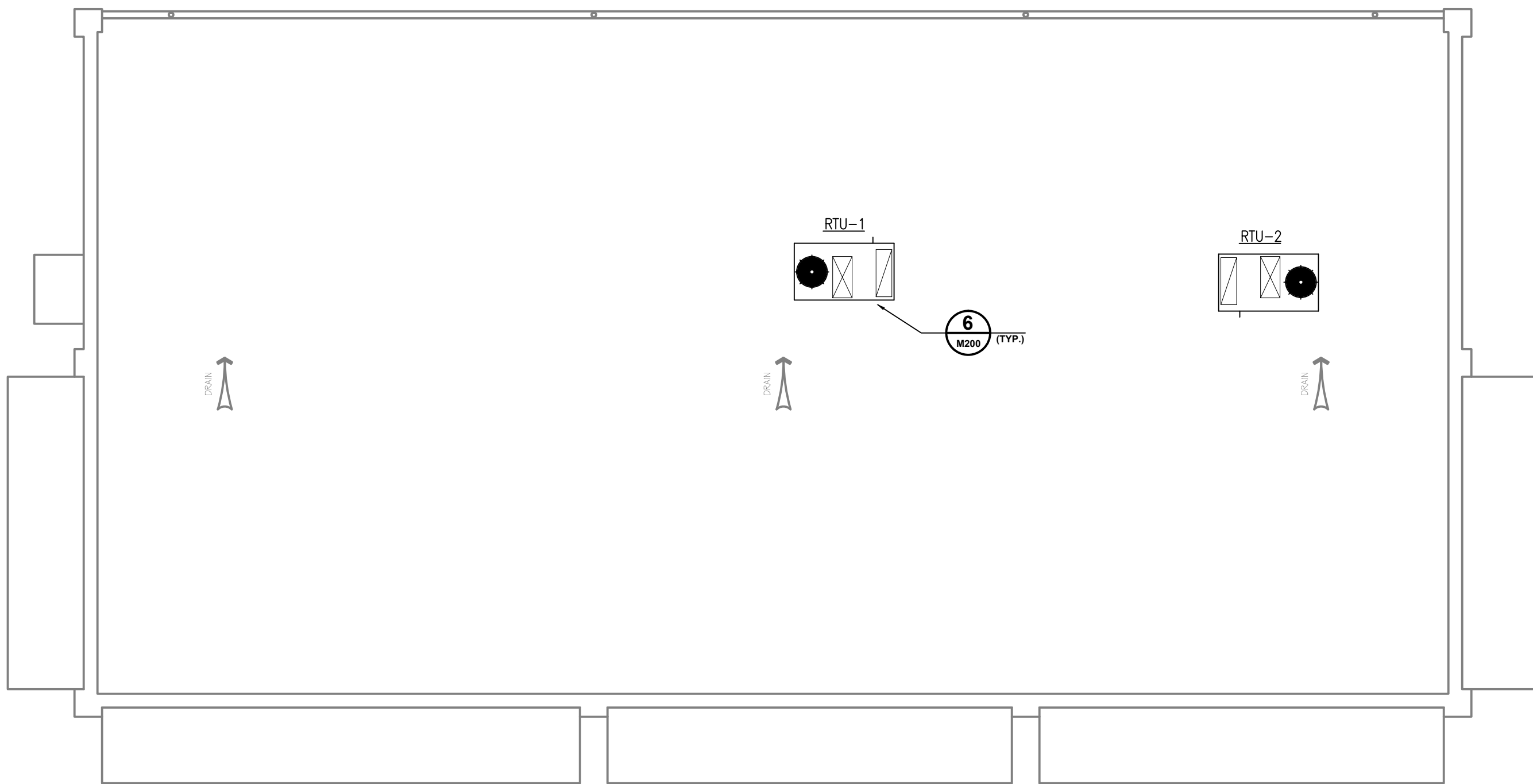
PACKAGE HEAT PUMP EQUIPMENT SCHEDULE

MARK	AREA SERVED	MFR/MOD#	NOMINAL TONS	TOTAL CFM	O.A. CFM	E.S.P. (IN.)	WEIGHT (LBS.)	COOLING			HEATING			ELECTRICAL										NOTES
								TOTAL (MBH)	SENSIBLE (MBH)	ENTERING (DB/WB)	REVERSE CYCLE @ ARI HIGH TEMP	AUXILIARY (KW)		VOLT/Ø	INDOOR FAN		OUTDOOR FAN		COMPRESSOR RLA	EFFICIENCY		MCA	MCOP	
												MIN.	SCHEDULED		HP/SPEEDS	FLA	HP/SPEEDS	FLA		EER	COP			
RTU-1	RETAIL/STORAGE	TRANE WSC090	7.5	3000	450	0.5	1056	89.5	68.8	80/67	93.7	27	27	208/3	1.0/BELT	5.0	0.70/1	3.85	26.0	10.1	3.39	122.7	125	1,2,3,4,5,6,7,8
RTU-2	RETAIL	TRANE WSC090	7.5	3000	450	0.5	1056	89.5	68.8	80/67	93.7	27	27	208/3	1.0/BELT	5.0	0.70/1	3.85	26.0	10.1	3.39	122.7	125	1,2,3,4,5,6,7,8

NOTES:
1. UNIT SHALL BE SINGLE POINT ELECTRICAL CONNECTION.
2. UNIT'S SMOKE DETECTOR PROVIDED BY ELECTRICAL. MOUNT IN RETURN DUCT PRIOR TO OUTSIDE AIR MIXING FOR AUTOMATIC UNIT SHUT DOWN.
3. PROVIDE AND INSTALL MFR.'S VIBRATION ISOLATION ROOF CURB.
4. ARI STANDARDS ARE BASIS OF EQUIPMENT SELECTION.
5. PROVIDE SEVEN DAY PROGRAMMABLE THERMOSTAT.
6. CONTRACTOR TO SELECT ELECTRIC HEAT TO PROVIDE MIN. VALUES AS INDICATED ON SCHEDULE, ELECTRIC HEAT SIZED FOR 90° LAT ON A 20° F OUTSIDE TEMP. DAY.
7. TRANE EQUIPMENT NUMBERS SHOWN FOR REFERENCE PURPOSE. EQUAL MANUFACTURERS WILL BE ACCEPTED PER SPECIFICATIONS.
8. PROVIDE LOW AMBIENT CONTROL.



1 HVAC PLAN
M101 1/8" = 1' - 0"



2 HVAC ROOF PLAN
M101 1/8" = 1' - 0"



EXHAUST FAN SCHEDULE

MARK	MFR/MOD#	SERVES	TYPE/DRIVE	CFM	VOLTS/ HP	APPROX. 3/8"	SONES	INTEGRAL DISCONNECT	INTEGRAL BACKDRAFT DAMPER	FAN SPEED CONTROL	INTERLOCK W/ LIGHTS	WALL CAP	GENIE VIBRATION ISO KIT	ALUMINUM CEILING GRILLE
EF-1	COOK GC-140	TOILET	CEIL. MTD. CENT./DIRECT	75	120/1 31W	3/8"	3.0	X	X	X	X	X	X	X
EF-2	COOK GC-140	TOILET	CEIL. MTD. CENT./DIRECT	75	120/1 31W	3/8"	3.0	X	X	X	X	X	X	X

KEYNOTES (REFERENCE THIS SHEET ONLY):

- SUPPLY DUCT DOWN FROM ROOF TOP UNIT. SEE 2/M101 FOR CONTINUATION.
- RETURN DUCT UP TO ROOF TOP UNIT. SEE 2/M101 FOR CONTINUATION.
- MOUNT WALL CAP AS HIGH AS POSSIBLE. COORDINATE LOCATION WITH ARCHITECT.

DIFFUSERS/GRILLES/LOUVERS

NUMBER OF DUPLICATE AIR DEVICES DESIGNATED BY THIS SYMBOL (2)
NECK SIZE IN INCHES (12")
AIR QUANTITY DELIVERED BY DEVICE IN CFM (200 CFM)

REFERENCES AIR DISTRIBUTION DEVICE SCHEDULE
FIRST LETTER: C-CEILING, D-DOOR, F-FLOOR, W-WALL
SECOND LETTER: D-DIFFUSER, G-GRILLE, L-LOUVER
THIRD LETTER: TYPE CODE
FOURTH CHARACTER: BLOW PATTERN (4-WAY)

HVAC ABBREVIATIONS

ALL ABBREVIATIONS SHOWN MAY NOT APPEAR IN DRAWINGS.

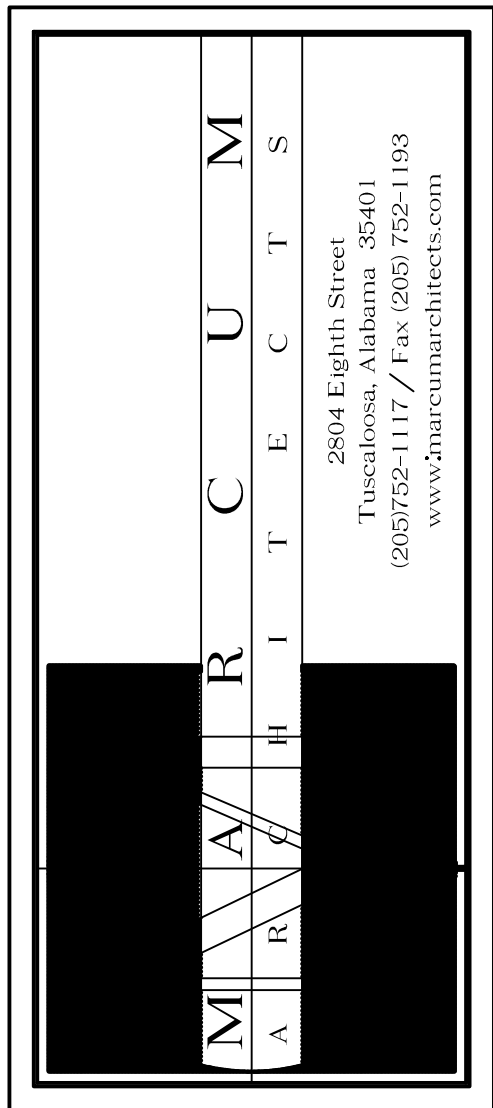
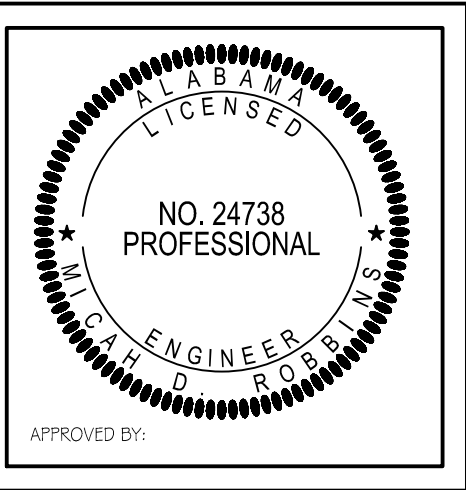
AFF ABOVE FINISHED FLOOR
AUX AUXILIARY
BDD BACK DRAFT DAMPER
BRD BAROMETRIC RELIEF DAMPER
CEIL CEILING
COND CONDENSATE
DIA DIAMETER
EAT ENTERING AIR TEMPERATURE
EF ROOM EXHAUST FAN
EQUIP EQUIPMENT
FD FIRE DAMPER
GA GAUGE
HP HEAT PUMP
HR HOUR
MAX MAXIMUM
MCA MINIMUM CIRCUIT AMPACITY
MD MOTORIZED DAMPER
MECH MECHANICAL
MFR MANUFACTURER
MIN MINIMUM
MOCP MAXIMUM OVERCURRENT PROTECTION
NIC NOT IN CONTRACT
OA OUTSIDE AIR
PENE PENETRATION
RA RETURN AIR
RM ROOM
REG REGISTER
RND ROUND
RTU ROOFTOP UNIT
SA SUPPLY AIR
SURF SURFACE
SYS SYSTEM
TEMP TEMPERATURE
TSTAT THERMOSTAT
TYP TYPICAL
VEL VELOCITY
VF VENTILATION FAN
W/ WITH

HVAC SYMBOL LEGEND

☒ SUPPLY AIR
☒ RETURN AIR
☒ ELBOW W/ TURNING VANES
☒ SPLITTER
☒ BALANCING DAMPER
☒ MOTORIZED DAMPER
☒ THERMOSTAT
☒ WALL CAP
☒ EXHAUST FAN
☒ FLEX DUCT
☒ DUCT TURNING UP/DOWN
☒ UNDERCUT DOOR
☒ SIDEWALL SUPPLY GRILLE/REGISTER

GENERAL HVAC NOTES

- COMPLY WITH THE NFPA, ICC, AND ALL LOCAL AND STATE CODES.
- THE DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY EACH TO THE OTHER. WHAT IS CALLED FOR BY ONE SHALL BE BINDING AS IF CALLED FOR BY BOTH.
- PORTIONS OF WALLS AND ARCHITECTURAL FEATURES MAY HAVE BEEN OMITTED FROM THIS PLAN FOR CLARITY OF MECHANICAL FEATURES. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF WALLS AND FIXTURES, AND DIMENSIONS.
- VERIFY FIELD DIMENSIONS. COORDINATE WORK WITH OTHER TRADES TO AVOID INTERFERENCES.
- PROVIDE ELECTRICAL CONTRACTOR WITH EXACT WIRING REQUIREMENTS. IF ELECTRICAL REQUIREMENTS VARY FROM THOSE INDICATED ON PLANS, HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ASSOCIATED ADDITIONAL COSTS.
- INSURE THAT ALL HVAC EQUIPMENT IS INSTALLED SUCH THAT ACCESS PANELS AND POINTS OF SERVICE ARE ACCESSIBLE.
- PAINT THE INSIDE OF ALL DUCTWORK WHERE BARE METAL OR OTHER THAN BLACK INSULATION IS VISIBLE THROUGH GRILLES AND REGISTERS WITH FLAT BLACK ENAMEL.
- COORDINATE ROOF PENETRATIONS WITH ROOFING CONTRACTOR. INSURE THAT ROOFING MANUFACTURER'S WARRANTY REQUIREMENTS ARE SATISFIED.
- ALL THERMOSTATS SHALL HAVE LOCKING PLASTIC COVERS.
- INSURE THAT ALL PENETRATIONS OF FIRE WALLS ARE PROPERLY SEALED PER ICC, ANY APPLICABLE UL ASSEMBLIES, AND THE SPECIFICATIONS.
- REFER CAREFULLY TO THE SPECIFICATIONS FOR CONDENSATE DRAINAGE REQUIREMENTS.
- DUCTWORK LOCATED OUTSIDE BUILDING INSULATION SHALL HAVE EXTERIOR WRAP INSULATION ALONG WITH INSIDE LINER PER SPECIFICATIONS.



A Shopping Center For:

Delchamps LLC.

Tuscaloosa, Alabama

REVISIONS:

4-1-08	OWNER CHANGES

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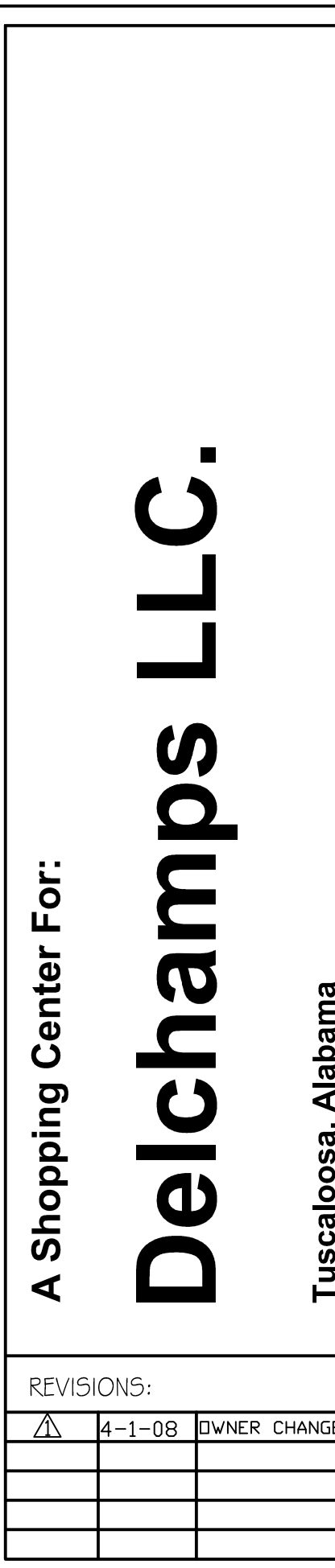
Tuscaloosa, Alabama
Fax: (205) 758-9909
Project # 07108


HVAC PLANS

JOB No: 0732
DATE: 03/25/08

SHEET:
M101


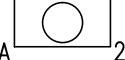

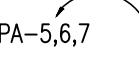




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















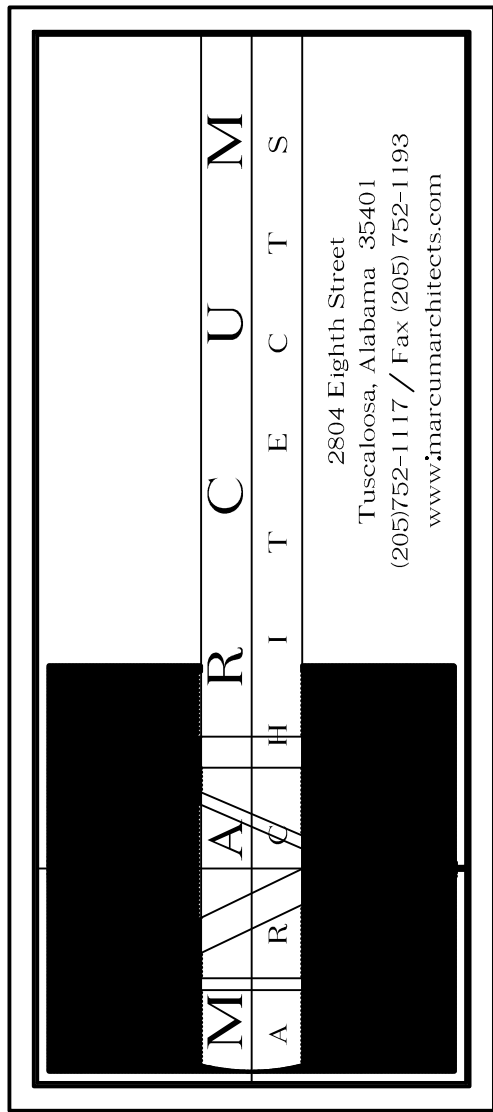
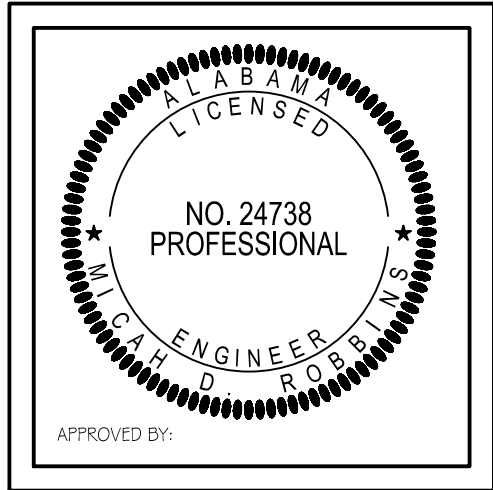
 <p>ROBBINS ENGINEERING, LLC Mechanical & Electrical 432 65th Street, Suite B Tuscaloosa, Alabama Phone: (205) 758-9909 Fax: (205) 758-9908 http://www.re-engineers.com project# 07108</p>	<p>HVAC DETAILS</p>	
	<p>JOB No:</p>	<p>0732</p>
	<p>DATE:</p>	<p>03/25/08</p>
	<p>SHEET:</p> <p>M200</p>	

1. COMPLY WITH THE NATIONAL ELECTRIC CODE, STATE AND LOCAL CODES.
2. ELECTRICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTION CERTIFICATES.
3. OMISSIONS OR MISDESCRIPTION OF DETAILS OF WORK WHICH ARE EVIDENTLY NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS, OR WHICH ARE CUSTOMARILY PERFORMED, SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH OMISSIONS AND DETAILS OF WORK, BUT THEY SHALL BE PERFORMED AS IF FULLY AND CORRECTLY SET FORTH & DESCRIBED.
4. ALL RACEWAY EXPOSED ON THE EXTERIOR SHALL BE RIGID GALVANIZED STEEL(RGS). EMT SHALL NOT BE ACCEPTABLE.
5. PORTIONS OF WALLS AND ARCHITECTURAL FEATURES MAY HAVE BEEN OMITTED FROM THIS PLAN FOR CLARITY OF ELECTRICAL FEATURES. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF WALLS AND FIXTURES, AND DIMENSIONS.
6. VERIFY FIELD DIMENSIONS. COORDINATE WORK WITH OTHER TRADES TO AVOID INTERFERENCES.
7. ALL EXIT AND EMERGENCY LIGHTS SHALL BE UNSWITCHED AND SHALL BE SERVED FROM THE SAME CIRCUIT AS THE GENERAL LIGHTING IN THE SAME AREA. EXHAUST FANS SHALL BE SWITCHED WITH LIGHTS.
8. INSTALL 6 EMPTY 3/4" CONDUITS WITH PULL WIRES UP FROM EACH RECESSED LIGHTING PANELBOARD TO ABOVE THE CEILING SPACE.
9. ALL ELECTRICAL PANELS SHALL HAVE ENGRAVED LAMINATED (BLACK ON WHITE) LABELS IDENTIFYING THEM AS INDICATED ON DRAWINGS.
10. ALL COMPONENTS USED IN PLENUM SPACES SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL AND SHALL BE RATED FOR INSTALLATION IN PLENUM SPACES.
11. COLOR OF WIRING DEVICES AND PLATES SHALL BE AS SELECTED BY THE ARCHITECT.
12. THE LOCATIONS OF FIXTURES AND EQUIPMENT ON THE DRAWINGS ARE APPROXIMATE ONLY. OFFSET AS REQUIRED OR AS REQUESTED BY OWNER.
13. COORDINATE LAYOUT CAREFULLY WITH SYSTEMS FURNITURE AND MILLWORK SHOP DRAWINGS PRIOR TO ROUGHING IN POWER AND COMMUNICATIONS OUTLETS TO ENSURE PROPER ORIENTATION OF OUTLETS WITH COMPONENTS OF THESE SYSTEMS.
14. CONDUCTOR SIZES INDICATED ON THE DRAWINGS HAVE BEEN SELECTED TO PROVIDE FOR ACCEPTABLE VOLTAGE DROP. DO NOT REDUCE WIRE SIZES SHOWN WITHOUT CONSENT OF ENGINEER.
15. MATERIALS AND ALL COMPONENTS THEREOF SHALL BE NEW AND SHALL BE UL APPROVED WHERE A STANDARD HAS BEEN ESTABLISHED. COMPONENTS SHALL BE EQUAL TO THOSE SCHEDULED ON DRAWINGS.
16. CONDUCTORS SHALL BE SINGLE CONDUCTOR COPPER, STRANDED FOR AWG #8 AND LARGER AND SOLID FOR AWG #10 AND SMALLER, WITH 600 VOLT INSULATION, THHN OR THWN FOR BRANCH CIRCUITS AND RHW FOR FEEDER CIRCUITS. MINIMUM SIZE FOR 120V AND GREATER SHALL BE #12. INSTALL A GREEN EQUIPMENT GROUNDING CONDUCTOR OF SAME SIZE AS CONDUCTORS IN ALL POWER CIRCUITS, OR AS OTHERWISE INDICATED.
17. ALL CONDUCTORS SHALL BE RUN IN METALLIC CONDUIT (3/4" MINIMUM). EMT CONDUIT MAY BE USED FOR CONCEALED CIRCUITS UP TO 1 1/2". RIGID NONMETALLIC CONDUIT, SCHEDULE 40 PVC, MAY BE INSTALLED BELOW GRADE WITH TRANSITIONS TO RGS MADE IN THE HORIZONTAL RUN BELOW GRADE. ALL OTHER CONDUIT SHALL BE STANDARD STEEL RIGID OR IMC, ACCORDING TO CODE REQUIREMENTS.
18. OUTLET, JUNCTION, AND PULL BOXES SHALL BE GALVANIZED STEEL, CODE GAUGE SIZE. THE LOCATION OF OUTLETS AND EQUIPMENT SHOWN ON THE DRAWINGS ARE APPROXIMATE AND THE OWNER SHALL HAVE THE RIGHT TO RELOCATE ANY OUTLETS OR FIXTURES BEFORE THEY ARE INSTALLED WITHOUT ANY ADDITIONAL COST.
19. MATERIALS, EQUIPMENT, AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THIS PERIOD SHALL BE CORRECTED AT THE ELECTRICAL CONTRACTOR'S EXPENSE.
GENERAL ELECTRICAL NOTES

ALL ABBREVIATIONS SHOWN MAY NOT BE PRESENT ON DRAWINGS. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL EQUIPMENT ABBREVIATIONS.	
A	AMPERES
AFF	ABOVE FINISHED FLOOR
APCO	ALABAMA POWER COMPANY
AUX	AUXILIARY
BATT	BATTERY CHARGER
C	CONDUIT
CBB	COMPUTER BACKBOARD
CEIL	CEILING
CKT	CIRCUIT
CU	COPPER
EF	ROOM EXHAUST FAN
EMT	ELECTRICAL METALLIC TUBING
EQUIP	EQUIPMENT
EW	ELECTRIC WATER COOLER
EX	EXISTING
FLUOR	FLUORESCENT
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GRND	GROUND
HP	HORSEPOWER, HEAT PUMP
HR	HOUR
IG	ISOLATED GROUND
JB	JUNCTION BOX
MAX	MAXIMUM
MB	MAIN BREAKER
MD	MOTORIZED DAMPER
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MTR	METER
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
N.T.S.	NOT TO SCALE
PENE	PENETRATION
PH	PHASE, POWER HOT
RGS	RIGID GALVANIZED STEEL CONDUIT
RM	ROOM
SURF	SURFACE
SYS	SYSTEM
TBB	TELEPHONE BACKBOARD
TYP	TYPICAL
V	VOLTS
VER.	VERIFY LOCATION
W	WIRE
WP	WEATHERPROOF
W/	WITH
XFMR	TRANSFORMER
&	AND
#	NUMBER
3R	NEMA 3R WEATHERPROOF ENCLOSURE RATING
4X	NEMA 4X WEATHERPROOF/CORROSION RESISTANT ENCLOSURE RATING
12	NEMA 12 DUSTPROOF ENCLOSURE RATING
ELECTRICAL ABBREVIATIONS	

	FIXTURE NOTE	TYPE 'A' FIXTURE (SEE FIXTURE SCHEDULE). CIRCUIT NO. 2 (TYP)
	FIXTURE NOTE	TYPE 'A' FIXTURE (SEE FIXTURE SCHEDULE). CIRCUIT NO. 2 (TYP)
	RECPT NOTE	WALL OUTLET WITH RECPTACLE NOTED, CONNECT TO CIRCUIT NO. 2 (TYP)
	HOME RUN	HOMERUN (TYP) TO PANNEL 'PPA', CONNECT TO CIRCUIT NO.'S "5, 6, & 7" EX: 3#12 (PH), 1#12 (N) & 1#12 GRND
	MULTI-CONDUCTED RUN	MULTI-CONDUCTED RUN (TYP) EX: 3#12 (PH), 2#12(PH 3-SW), 1#12 (N) & 1#12 GRND
	WIRE DESIGNATION	TIC INDICATES NUMBER OF CONDUCTORS, EX. 3 #12AWG (TYP). NEUTRAL & GRND ASSUMED.
NOTE: 1. ALL CIRCUITS SHALL CONTAIN A GREEN EQUIPMENT GRND CONDUCTOR. 2. EQUIPMENT GROUND CONDUCTOR SHALL BE AS FOLLOWS UNLESS OTHERWISE INDICATED: #12 AWG CIRCUIT - #12 GRND #10 AWG CIRCUIT - #10 GRND # 8 AWG CIRCUIT - #10 GRND 3. UNLESS OTHERWISE INDICATED, CONDUIT SIZE SHALL BE 3/4" MIN. AND SHALL NOT EXCEED A FILL OF 40% MAXIMUM, SEE NEC.		
# OF CIRCUIT CONDUCTORS  & 1# GRND - C		SIZE OF CONDUIT
SIZE OF CIRCUIT CONDUCTORS "AWG" 		SIZE OF GROUNDING CONDUCTOR "AWG"
CIRCUIT DESIGNATIONS		

	WALL LIGHT	COMPACT FLUORESCENT, SURFACE MOUNTED.
	CEILING LIGHT	FLUORESCENT, RECESS MOUNTED.
	CEILING LIGHT	FLUORESCENT, RECESS MOUNTED W/ BATTERY BACKUP
	CEILING LIGHT	FLUORESCENT, RECESS MOUNTED.
	CEILING LIGHT	FLUORESCENT, RECESS MOUNTED W/ BATTERY BACKUP
	EXIT LIGHT	WALL MOUNTED UNLESS OTHERWISE INDICATED. SHADING INDICATES NUMBER OF SIDES.
	DISTRIBUTION CENTER	AS SCHEDULED.
	PANEL	LIGHTING OR POWER AS SPECIFIED IN PANEL SCHEDULE.
	SWITCH	SINGLE POLE, 120/277 V.
	SWITCH SUBSCRIPTS	D DIMMER 3 THREE-WAY
	WALL OUTLET	DUPLEX RECEPTACLE, 125V.
	WALL OUTLET	SLASH INDICATES OUTLET TO BE MOUNTED 6" ABOVE COUNTER TOP (TYP). CONSULT ARCHITECTURAL DWGS FOR COUNTER HT.
	OUTLET SUBSCRIPTS	WP WEATHERPROOF CR CORROSION RESISTANT H HANDRAIL MOUNT
	SWITCH	NON-FUSED DISCONNECT, NEMA 3R IN WET LOCATION.
	SWITCH	FUSED DISCONNECT, NEMA 3R IN WET LOCATION.
	SWITCH	PHOTOELECTRIC CELL.
	JUNCTION BOX	FLUSH MOUNTED, WALL OR CEILING AS INDICATED.
	EXHAUST FAN	FURNISHED BY HVAC, INSTALLED BY ELECTRICAL. REFER TO MECHANICAL DWGS FOR EXACT LOCATION.
	CONTROL OUTLET	VERIFY BOX TYPE & LOCATION W/ MECHANICAL CONTRACTOR. 1/2" C. TO ABOVE CEILING.
ELECTRICAL SYMBOLS		



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Delchamps LLC.

Tuscaloosa, Alabama

REVISIONS:

ROBBINS
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Mechanical & Electrical

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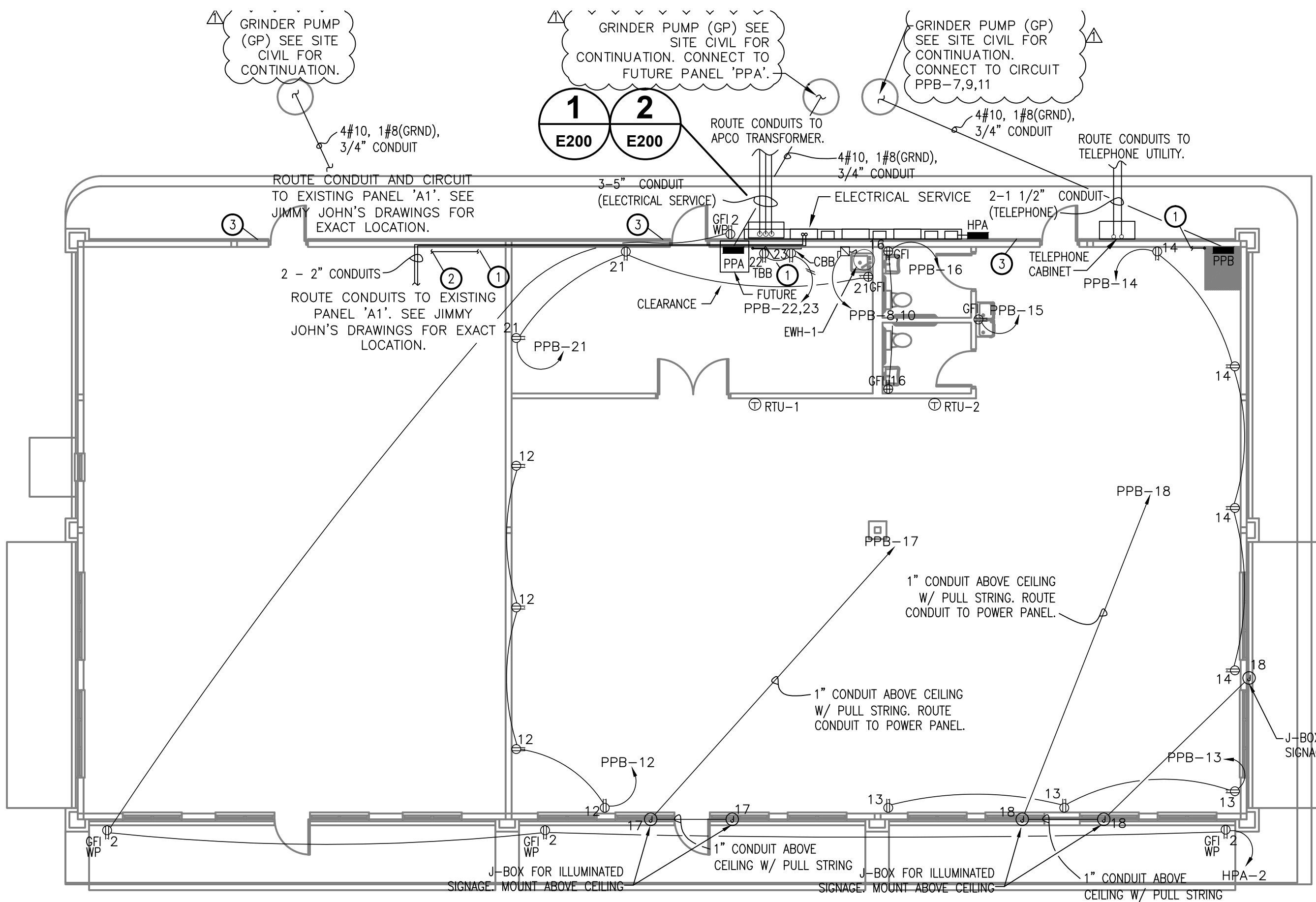
Tuscaloosa, Alabama 35401
Fax: (205) 758-9800
Project# 07100

ELECTRICAL LEGEND
& SCHEDULES

JOB No: 0732

DATE: 03/25/08

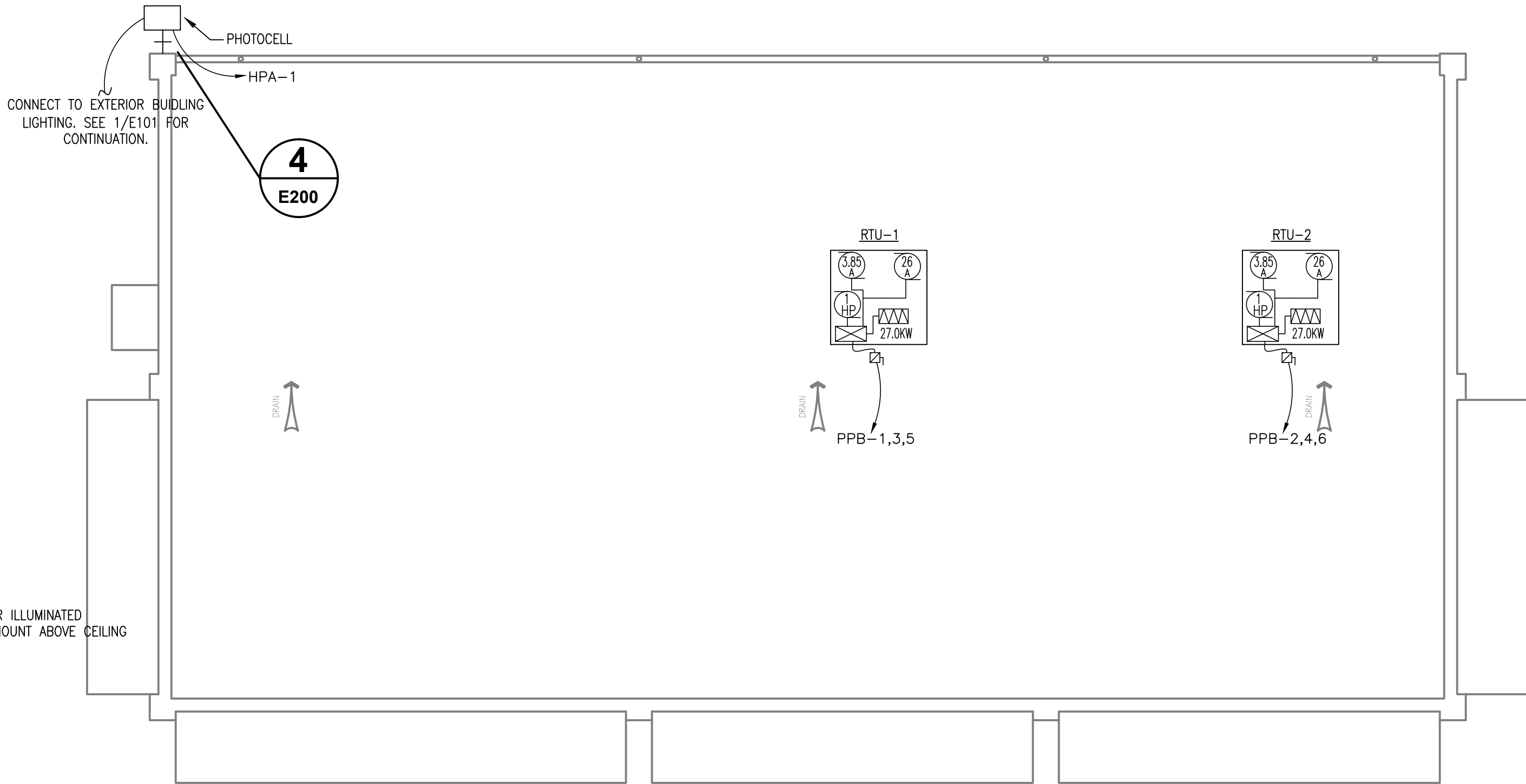
SHEET: E100



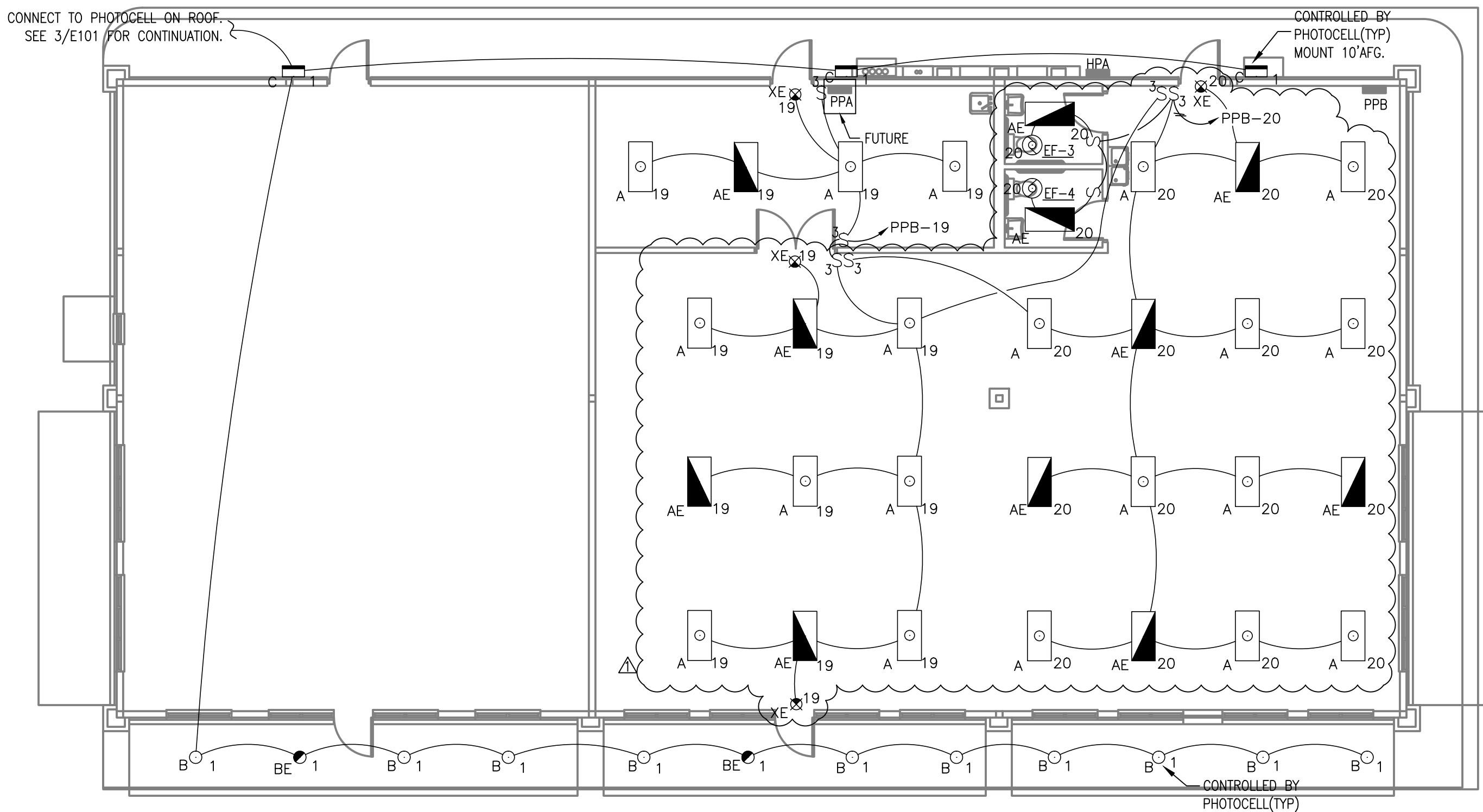
1 ELECTRICAL POWER WIRING PLAN
E101 1/8" = 1' - 0"



- KEYNOTE:(REFERENCE THIS DRAWING ONLY)
- ① - 1" CONDUIT. ROUTE TO TELEPHONE ENCLOSURE IN REAR OF BUILDING.
 - ② - ROUTE TO TELEPHONE BACKBOARD.
 - ③ - MOUNT ALARM FOR SEWAGE GRINDER PUMP BY REAR DOOR. PROVIDE 3/4" CONDUIT, WIRE, AND BOX. ROUTE CONDUIT FROM ALARM TO EACH INDIVIDUAL PUMP.



3 ELECTRICAL ROOF PLAN POWER WIRING PLAN
E101 1/8" = 1' - 0"



2 ELECTRICAL LIGHTING WIRING PLAN
E101 1/8" = 1' - 0"



DISCONNECT SCHEDULE					
ID	AMP	VOLT	PHASE	POLE	NEMA
RTU-1	200	208	3	3	3R
RTU-2	200	208	3	3	3R
EW-1	30	208	1	2	1

CONDUCTOR SCHEDULE			
CONDUCTORS / CONDUITS SHALL BE SIZED ACCORDING TO THE FOLLOWING CHART UNLESS OTHERWISE NOTED.			
CIRCUIT BREAKER	CU PHASE WIRE (AWG)	GROUND WIRE (AWG)	CONDUIT SIZE
20	#12	#12	3/4"
30	#10	#10	3/4"
40	#8	#10	1"
50	#8	#10	1"
60	#6	#10	1"
70	#6	#8	1"
80	#4	#8	1 1/4"
90	#4	#8	1 1/4"
100	#3	#8	1 1/4"
125	#1	#6	1 1/2"
150	#1/0	#6	2"
175	#2/0	#6	2"
200	#3/0	#6	2"
225	#4/0	#4	2 1/2"
250	#250	#4	3"
400	#500	#3	3 1/2"

NOTES:

1. NEUTRAL CONDUCTOR (IF REQUIRED) SHALL BE THE SAME SIZE AS PHASE CONDUCTORS.
2. ALL LIGHTING CIRCUITS SHALL UTILIZE #10 AWG WIRE FOR VOLTAGE DROPS.
3. ALL HVAC OR OTHER CYCLICAL EQUIPMENT SHALL UTILIZE HACR TYPE CIRCUIT BREAKERS.
4. CONTRACTOR TO PROVIDE QUANTITY OF CONDUCTORS AS NECESSARY TO POWER LOADS.
5. CONDUIT SIZES BASES ON FOUR CONDUCTORS MAXIMUM. CONTRACTOR SHALL FOLLOW NEC GUIDELINES FOR DERATING AMPACITIES AND CONDUIT SIZES FOR ALL COMBINED CIRCUITS/HOMERUNS.
6. CONDUCTORS SHALL BE COPPER. INDICATED SIZES ARE FOR USE WITH COPPER CONDUCTORS.
7. FOR BREAKERS SIZES NOT INDICATED SUCH AS 25A, USE THE CONDUIT AND WIRE SIZE OF THE NEXT HIGHER LISTED BREAKER (30A.)

VERIFY SCALES
BAR IS ONE INCH
ON ORIGINAL DWG.
IF NOT ONE INCH
ON THIS SHEET
ADJUST SCALE
ACCORDINGLY

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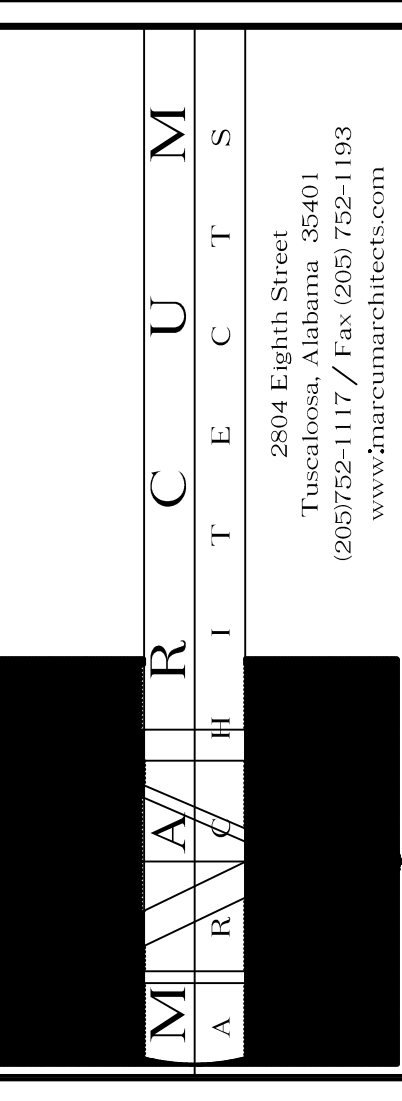
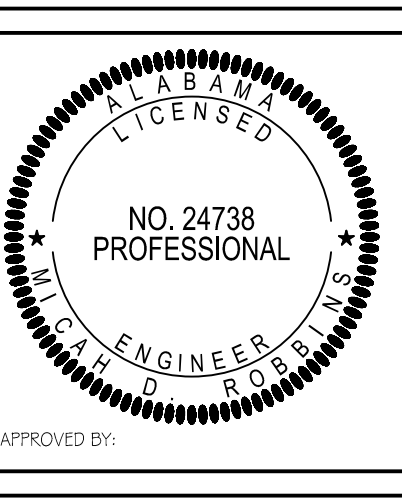
ELECTRICAL PLANS
JOB No: 0732
DATE: 03/25/08
SHEET: E101

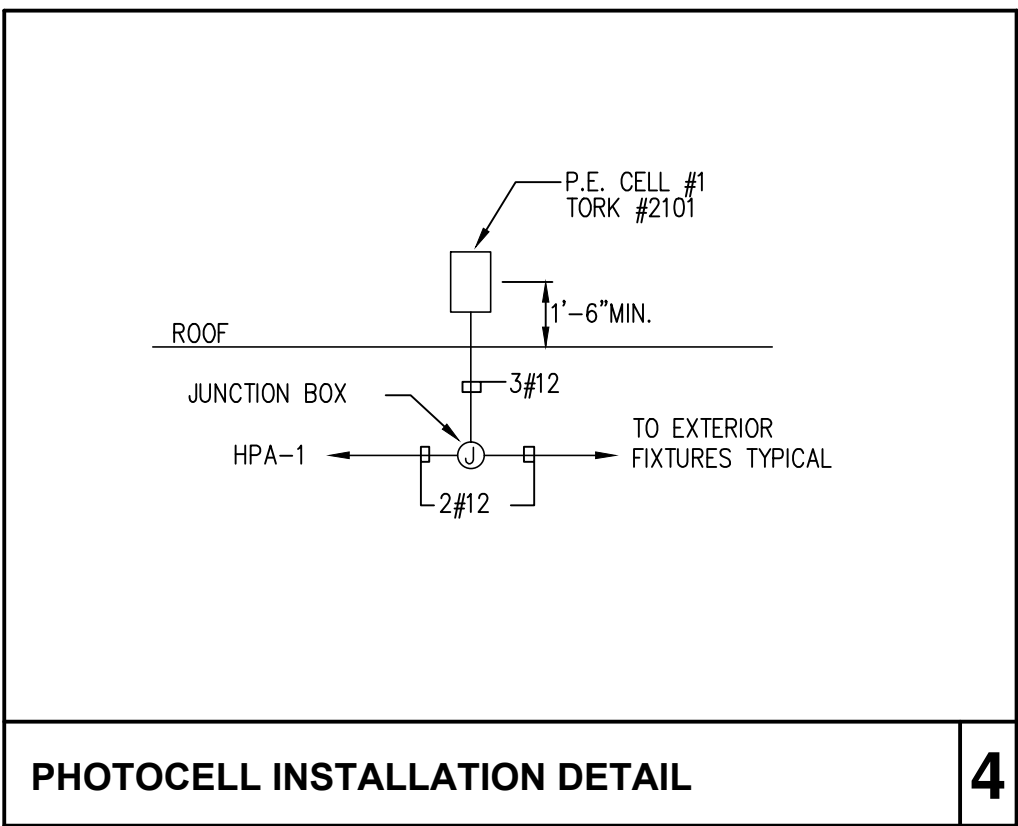
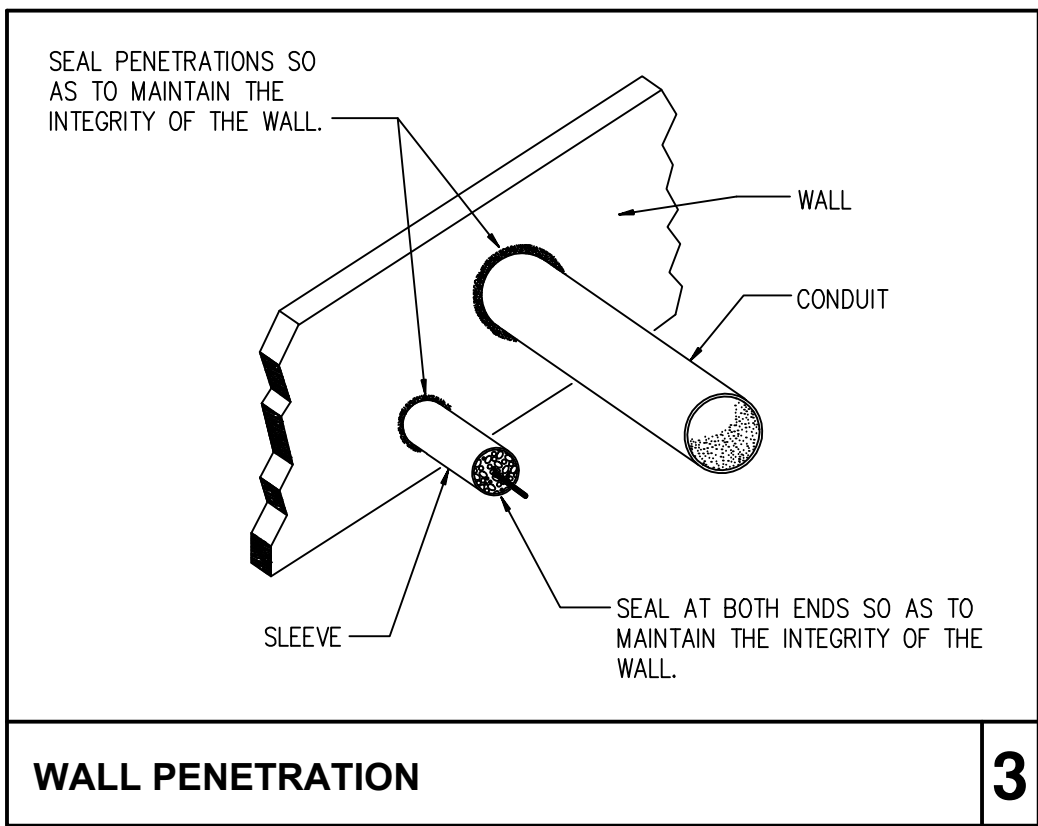
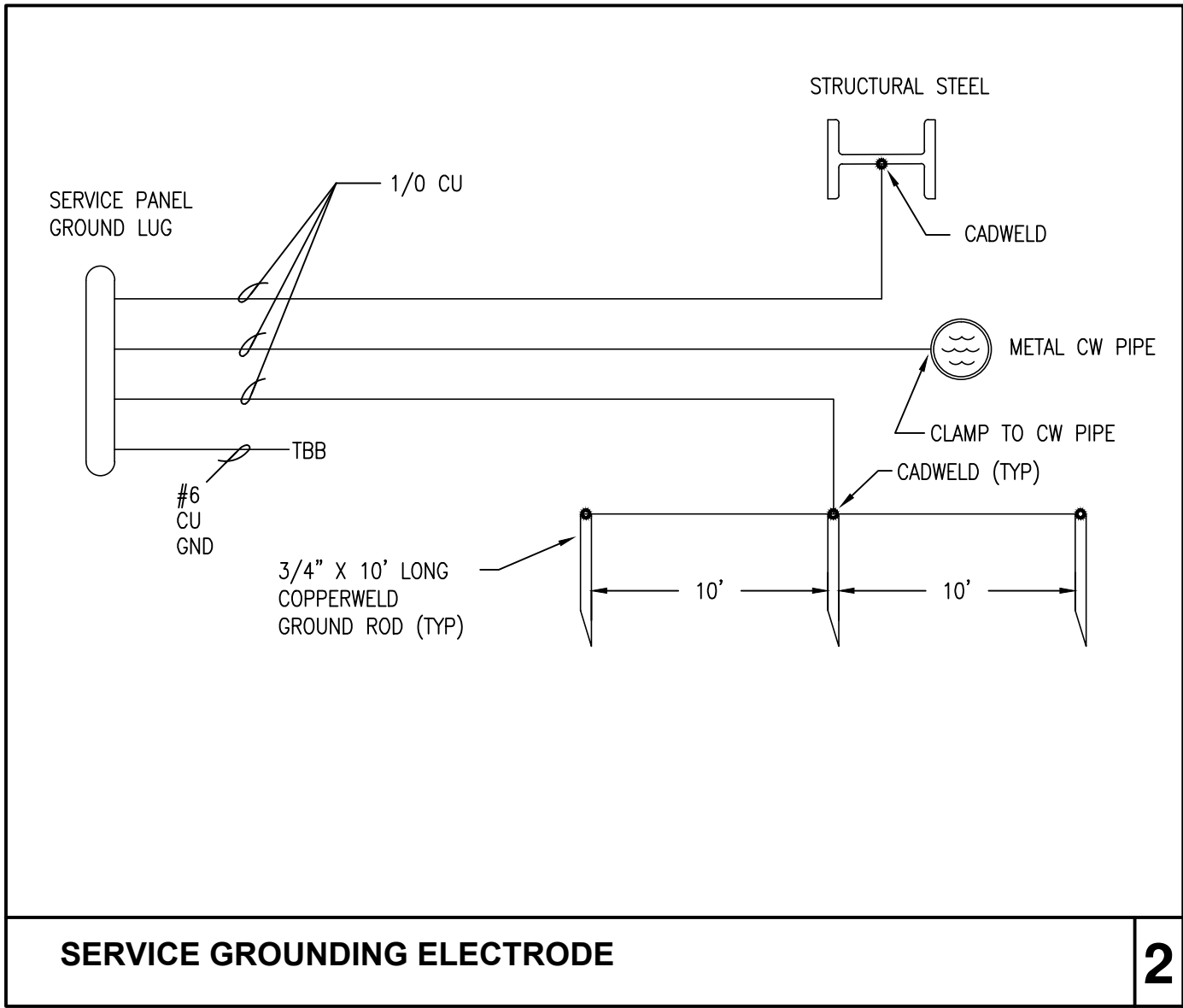
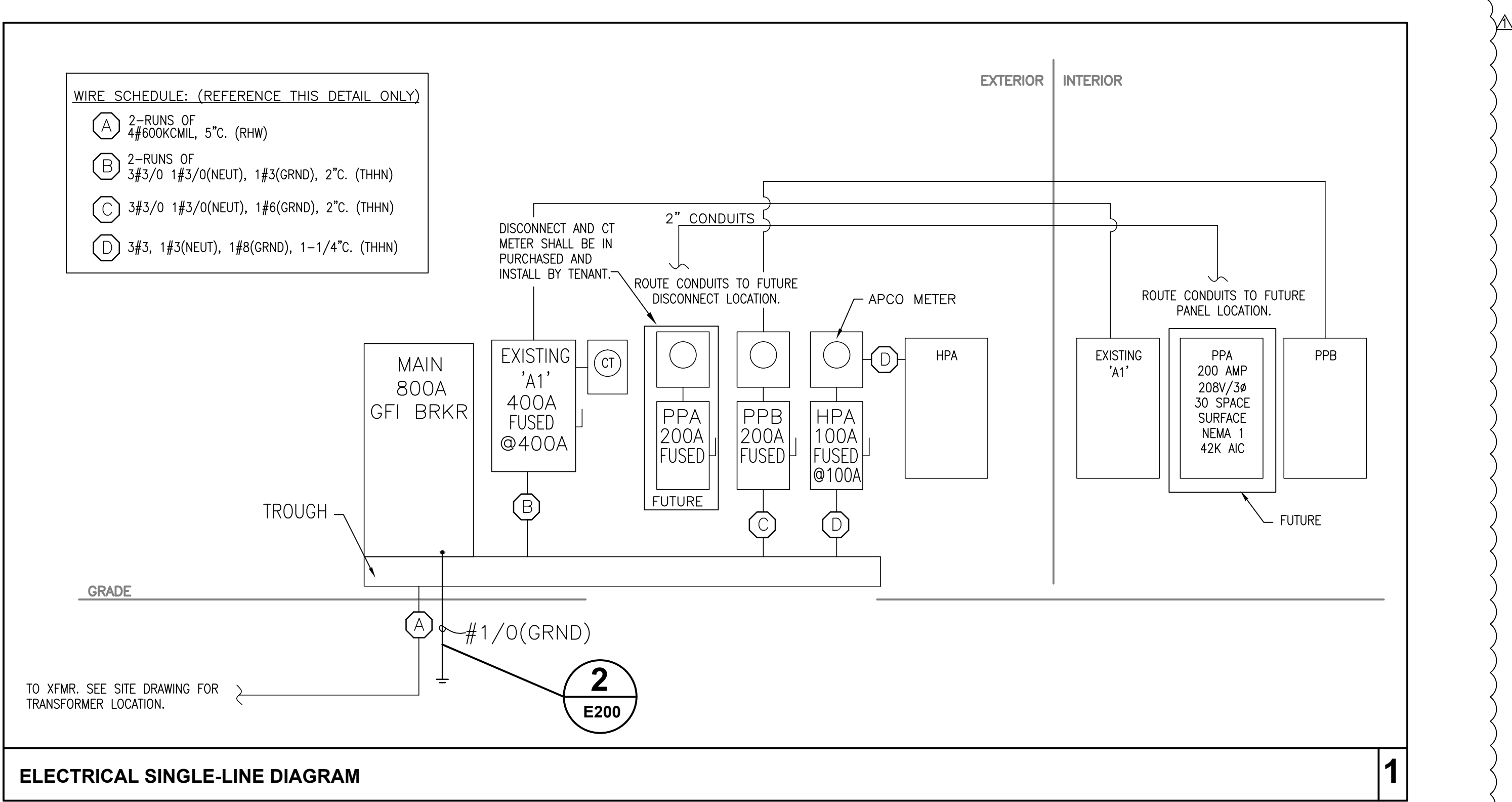
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LIGHTING FIXTURE SCHEDULE							
ID	MANUFACTURER	MODEL NO.	VOLTAGE	REQUIRED LAMPS		MOUNTING	NOTES
				NUM.	TYPE		
A	Metalux	2GR8-332A-EB81-U	120	3	32W, T8	Recessed Ceiling	
AE	Metalux	2GR8-332A-EM-EB81-U	120	3	32W, T8	Recessed Ceiling	
B	Pds	PD7-H142-E-7HC	120	1	32W, CFL	Recessed Ceiling	Battery Backup
BE	Pds	PD7-H142EEM-7HEMC	120	1	32W, CFL	Recessed Ceiling	Battery Backup
C	Lumark	PL-IP-C-64-120V-EM	120	2	32W, CFL	Surface Wall	Battery Backup
XE	Sure-Lite	AP70R	120	1	LED	Surface Wall	Battery Backup

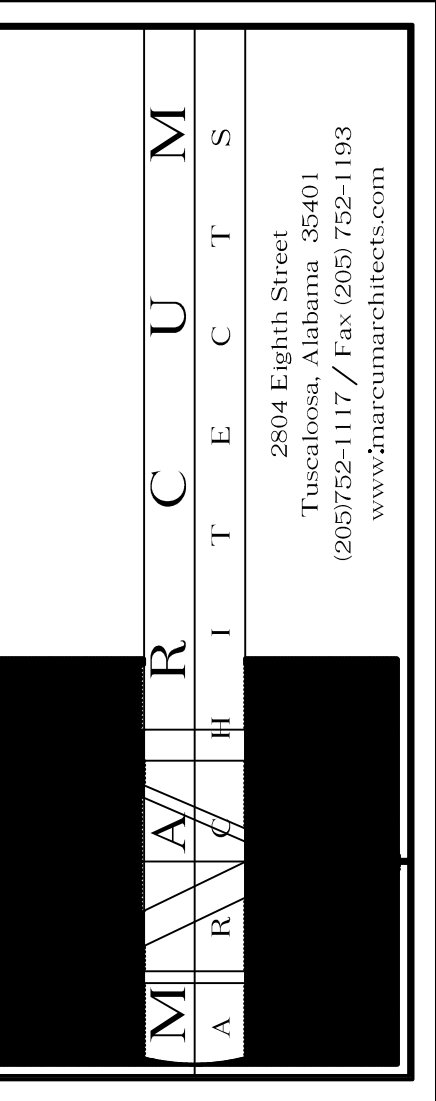
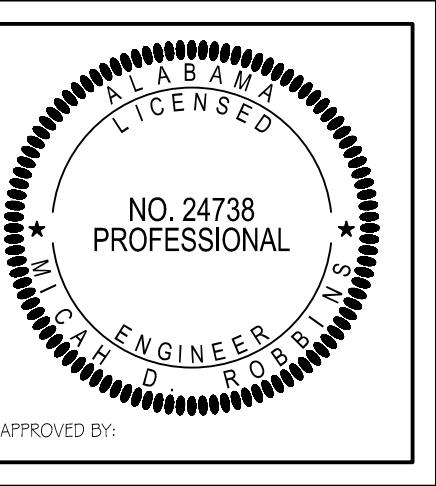
Electrical HPA Schedule														
VOLTS/PHASE/WIRE 208/3/4			PANEL SIZE & TYPE 100A		MAIN SIZE & TYPE MLO		CABINET NEMA 3R		MIN SCC 22K AIC		FED FROM SERVICE		NOTES SURFACE	
CIRCUIT NO.	TRIP AMPS	NO. POLES	AREA SERVED	PHASE LOAD VA			AREA SERVED	NO. POLES	TRIP AMPS	CIRCUIT NO				
				A	B	C								
1	20	1	EXTERIOR LIGHTING	616			EXTERIOR RECPT	1	20	2				
				720										
3	20	1	SPARE				SPARE	1	20	4				
5	20	1	SPARE				EMPTY							
			EMPTY				EMPTY							
			EMPTY				EMPTY							
			EMPTY				EMPTY							
CONNECTED LOAD				1336	0	0	= 1336							

Electrical PPB Schedule														
VOLTS/PHASE/WIRE 208/3/4			PANEL SIZE & TYPE 200A		MAIN SIZE & TYPE MLO		CABINET NEMA 1		MIN SCC 42K AIC		FED FROM SERVICE		NOTES SURFACE	
CIRCUIT NO.	TRIP AMPS	NO. POLES	AREA SERVED	PHASE LOAD VA			AREA SERVED	NO. POLES	TRIP AMPS	CIRCUIT NO				
				A	B	C								
1,3,5	125	3	RTU-1	11995										
				11995										
	125				11995									
					11995									
	125					11995								
						11995								
7,9,11	15	3	GP	899										
				1000										
	15				899									
					1000									
	15					899								
						720								
13	20	1	S. RECPT	540										
				720										
15	20	1	WATER COOLER		750									
					360									
17	20	1	SIGNAGE			1000								
						1000								
19	20	1	N LIGHTS	1324										
				1709										
21	20	1	N. RECPT		540									
					650									
23	20	1	CBB			650								
25	20	1	SPARE											
27	20	1	SPARE											
29	20	1	SPARE											
			EMPTY											
			EMPTY											
			EMPTY											
			EMPTY											
			EMPTY											
			EMPTY											
CONNECTED LOAD				30182	28189	28259	= 86629							

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