# PLUMBING NOTES:

## GENERAL:

1. VERIFY" SHALL MEAN CHECK CONDITIONS ON SITE AGAINST DRAWINGS AND SPECIFICATION AND ADJUST WORK TO MATCH EXISTING. OBTAIN RULING FROM OWNER ON ANY ITEMS REQUIRING CLARIFICATION
2. THE NEW PLUMBING SYSTEMS (COLD WATER, HOT WATER, WASTE AND GAS) SHALL BE INSTALLED COMPLETE AND IN ACCORDANCE WITH ALL APPLICABLE CODES, LAWS AND REGULATIONS, LOCAL HEALTH DEPARTMENT STANDARDS AND THE OWNER'S REQUIREMENTS. THE SYSTEMS SHALL BE FREE OF ANY NOISE, VIBRATIONS AND OBJECTIONABLE NOISES.
3. THE PLUMBING WORK SHALL COMPLY WITH THE CURRENT EDITION OF THE INTERNATIONAL PLUMBING CODE, ALABAMA STATE AMENDMENTS, THE ALABAMA ACCESSIBILITY CODE & ALL APPLICABLE SECTIONS OF NFPA AND ANSI AND THE GUIDELINES OF ASPE. THE CONTRACTOR SHALL CONFIRM AND ENSURE THAT ALL PLUMBING WORK CONFORMS TO THE CURRENT REQUIREMENTS OF THE LOCAL BUILDING INSPECTION DEPARTMENT.
4. ALL PLUMBING EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS. ALL FIXTURES AND EQUIPMENT SHALL BE INSTALLED LEVEL, PLUMB AND RUN PARALLEL OR PERPENDICULAR TO THE BUILDING WALLS UNLESS INDICATED OTHERWISE.
5. CONTRACTOR SHALL SECURE ALL PERMITS, INSPECTION CERTIFICATES, AUTHORITY APPROVALS AND PAY ALL RELATED FEES AND CHARGES.
6. ALL NEW PLUMBING EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE BY THE OWNER.
7. IT IS THE INTENT OF THESE SPECIFICATIONS TO PROVIDE FINISHED WORK, TESTED AND READY FOR OPERATION. ANY APPARATUS, APPLIANCE OR MATERIAL WHICH MAY BE NECESSARY TO MAKE THE WORK COMPLETE AND FULLY OPERATIONAL, EVEN IF NOT EXPLICITLY STATED, SHALL BE PROVIDED FOR BY THE CONTRACTOR.
8. ALL PLUMBING WORK SHALL BE INSTALLED SO AS TO AVOID INTERFERENCE WITH ALL ELECTRICAL AND MECHANICAL WORK AND STRUCTURAL MEMBERS.
9. THE LOCATIONS OF UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL UTILITIES PRIOR TO START OF WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY & ALL DAMAGES WHICH MIGHT OCCUR BY FAILURE OF EXACTLY LOCATING & PRESERVING ANY & ALL UNDERGROUND UTILITIES.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND REPAIRING ALL AREAS WHICH WERE DAMAGED BY HIS OPERATION.
11. ALL HORIZONTAL PIPING LINES EXTENDED AND CONNECTED TO EQUIPMENT SHALL BE RUN AT THE HIGHEST POSSIBLE ELEVATION AND NOT LESS THAN 6" ABOVE FINISHED FLOOR TO PROVIDE CLEARANCE FOR CLEANING.
12. EXACT LOCATIONS & ROUGH-IN REQUIREMENTS FOR ALL FIXTURES & EQUIPMENT SHALL BE DETERMINED FORM ARCHITECTURAL DRAWINGS. LARGE SCALE ARCHITECTURAL DETAILS & APPROVED MANUFACTURER'S SHOP DRAWINGS. PARTICULAR ATTENTION SHALL BE DIRECTED TO FIXTURES OR EQUIPMENT FURNISHED BY OTHER TRADES.
13. PIPING IS SHOWN IN ITS GENERAL LOCATION (UNLESS DIMENSIONED). EXACT LOCATIONS SHALL BE DETERMINED BY JOB CONDITIONS. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF HIS WORK WITH THAT OF OTHER TRADES & ARRANGE PIPING TO CLEAR STRUCTURAL MEMBERS & DUCTWORK. DO NOT RESTRICT ACCESS TO ANY EQUIPMENT.

## GREASE WASTE, SANITARY, STORM WATER & VENT PIPING:

14. ALL STORM WATER, SANITARY, GREASE WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC, WITH PVC FITTINGS UNLESS THE LOCAL AUTHORITIES HAVING JURISDICTION REQUIRE CAST IRON.
15. COORDINATE WITH THE MECHANICAL CONTRACTOR TO ENSURE THAT SANITARY VENTS THROUGH ROOF MAINTAIN A MINIMUM OF 12" FROM ANY VERTICAL SURFACE AND 10'-0" FROM ANY FRESH AIR INTAKE TO THE BUILDING.
16. REFER TO ARCHITECTURAL FINISH SCHEDULE & ELEVATIONS FOR DETAILS OF FLOORS WHERE FLOOR DRAINS & CLEAN-OUTS ARE LOCATED.
17. ALL CLEAN-OUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEAN-OUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC. AND ARCHITECT PRIOR TO INSTALLATION.
18. CONDENSATE DRAINS FROM COOLER/FREEZER EVAPORATORS SHALL BE TYLE "M" SOFT COPPER TUBING, SUPPORT PIPING AND PROTECT FROM DAMAGE. ALL HORIZONTAL CONDENSATE DRAINS SHALL BE SLOPED 1/8" PER FOOT MINIMUM.

## DOMESTIC WATER PIPING:

19. DOMESTIC WATER PIPING BELOW GRADE SHALL BE TYPE "K" COPPER TUBING, WITH NO PIPE JOINTS BELOW GRADE.. UNDERGROUND PIPES SHALL BE INSIDE A PVC PIPE LINER AND INSTALL A UNION ABOVE GRADE AT EACH END OF THE BURIED PIPE. UNDERGROUND PIPE SHALL BE DRAWN EXCEPT ANNEALED (SOFT) PIPE MAY BE USED WHERE INDICATED.
20. DOMESTIC (HOT, COLD AND FILTERED) WATER PIPING ABOVE GRADE SHALL BE TYPE "L" COPPER TUBING. FITTINGS SHALL BE WROUGHT COPPER WITH LEAD FREE SOLDER. PIPING SHALL NOT TOUCH FERROUS MATERIALS. FIRMLY SUPPORT PIPING USING NON FERROUS PIPE SUPPORTS.
21. SHUT-OFF VALVES SHALL BE FULL PORT, THREADED OR SOLDER-END TYPE, RATED AT NOT LESS THAN 200 LB. NON-SHOCK COLD WATER WORKING PRESSURE. VALVES SHALL BE BALL TYPE "MILWAUKEE BB2-100 "BUTTERBALL"(THD). PROVIDE VALVES IN EACH BRANCH LINE WHETHER SHOWN ON THE DRAWINGS OR NOT.
22. PROVIDE A BALL-COCK STOP ON WATER SUPPLY IN BRANCH PIPE TO EACH PLUMBING FIXTURE WHETHER SHOWN ON THE DRAWINGS OR NOT.
23. UNIONS SHALL BE PROVIDED AFTER EACH SCREW TYPE VALVE AND AT EQUIPMENT CONNECTIONS. PROVIDE ISOLATION UNIONS ON ALL CONNECTIONS BETWEEN DISSIMILAR METALS.
24. COLD & HOT WATER RISERS FOR FIXTURES, UNLESS NOTED OTHERWISE SHALL BE CONCEALED IN WALLS OR PIPE CHASES.

## GAS:

25. GAS PIPING: PIPE SHALL BE CODE APPROVED BLACK IRON, SCHEDULE 40 ASTM A120 OR A53, WITH THREADED JOINTS AND A MAXIMUM PRESSURE RATING OF 250 PSI. FITTINGS SHALL BE SCREWED END.
26. PROVIDE A GAS COCK AT EACH PIECE OF GAS EQUIPMENT AND ON MAIN SHUT-OFF GAS COCK AT THE GAS METER. COORDINATE LOCATION, LEAVING GAS PRESSURE & GAS METER WITH THE LOCAL NATURAL GAS SUPPLY COMPANY.

## INSULATION:

27. INSULATE ALL ABOVE GROUND HOT AND COLD WATER PIPING AND FITTINGS WITH PRE-FORMED ARMAFLEX AP INSULATION, 1" THICK. USE ARMAFLEX 520 ADHESIVE ON ALL JOINTS. ALL INSULATION MATERIALS SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS, SMOKE DEVELOPED RATING OF 50 OR LESS WHEN TESTED PER ASTM E 84 & THERMAL CONDUCTIVITY OF NO GREATER THAN 0.27 (BTU*IN)/(HR*FT2*øF) PER ASTM C 177
28. THE DRAINAGE, HOT AND COLD PIPEWORK BELOW ALL LAVATORIES IN THE TOILETS WILL BE INSULATED WITH "HANDI-LAV" GUARD" INSULATING KITS AS MANUFACTURED BY TRUEBRO, INC (203) 875-2868 OR EQUAL.

## SUPPORT SPACING:

29. SPACING OF HANGERS AND SUPPORTS FOR ABOVEGROUND HORIZONTAL PIPING AND TUBING SHALL NOT EXCEED THE FOLLOWING:
    - A. CAST IRON WASTE/SOIL PIPE SHALL BE SUPPORTED AT NOT MORE THAN FIVE FOOT INTERVALS AND AT EACH HUB.
    - B. COPPER TUBING

| PIPE SIZE | MAX. SPACING (FT) |
|---|---|
| 3/4 " & SMALLER | 5 |
| 1 IN. THRU 3 IN | 6 |
| 4 IN. & LARGER | 12 |

    - C. STEEL PIPE (EXCLUDING GAS PIPING)

| | |
|---|---|
| UP THRU 1-1/4 IN. | 6 |
| 1-1/2" THRU 2-1/2" | 8 |
| 3 IN. & 4 IN. | 12 |
| 5 IN. & LARGER | 16 |
| 10 IN. & LARGER | 20 |

    - D. PVC PIPE 4
    - E. GAS PIPING (STEEL):

| | |
|---|---|
| 1/2" | 6 |
| 3/4" - 1" | 8 |
| 1-1/4"- LARGER | 10 |

    - F. SEE STANDARD PLUMBING CODE, TABLE 308.5, FOR PIPE HANGER SPACING FOR OTHER MATERIALS
30. SUPPORT PIPES FROM STRUCTURE. WHERE SPACING OF STRUCTURAL MEMBERS EXCEEDS THE MAXIMUM SPACING NOTED ABOVE PROVIDE ADDITIONAL SUPPORTS OF SUFFICIENT SIZE TO SUPPORT PIPES WITHOUT EXCESSIVE DEFLECTION.
31. ADJUST HANGERS AND SUPPORTS TO SLOPE PIPE TO CODE OR AS OTHERWISE REQUIRED FOR PROPER OPERATION OF THE SYSTEM(S).
32. UNDERGROUND PIPING SHALL BE LAID ON A FIRM BED FOR ITS ENTIRE LENGTH.

## MISCELLANEOUS:

33. NO "ALTERNATES" OR "EQUALS" MAY BE USED WITHOUT THE WRITTEN PRE-AUTHORIZATION BY THE ARCHITECT OR ENGINEER.
34. NON-FREEZE HOSE BIBBS SHALL BE MOUNTED 18" ABOVE FINISHED FLOOR OR AS OTHERWISE NOTED ON THE DRAWINGS. VERIFY PRIOR TO INSTALLATIONS.
35. PROVIDE SLEEVES FOR PIPES THRU FLOORS, MASONRY WALLS & FIRE OR SMOKE PARTITIONS. PENETRATIONS THROUGH FIRE RATED FLOORS, WALLS AND PARTITIONS SHALL BE FIRE STOPPED TO COMPLY WITH THE APPLICABLE EDITION, INCLUDING REVISIONS, OF THE STANDARD BUILDING CODE, STANDARD MECHANICAL CODE AND LOCAL FIRE MARSHALL REQUIREMENTS. FIRE STOP SYSTEM USED SHALL BE UL LISTED AND SHALL BE SUITABLE FOR THE PENETRATING AND PENETRATED MATERIALS. THE WORK SHALL BE INSPECTED AND CERTIFIED BY THE MANUFACTURER'S AUTHORIZED REPRESENTATIVE. PENETRATIONS THROUGH WALLS AND FLOORS BELOW GRADE AND OUTSIDE WALLS SHALL BE SEALED AND CAULKED WATER, MOISTURE AND AIR TIGHT TO ARCHITECT APPROVAL.
36. THE PRV PROVIDED SHALL BE SUITABLE FOR THE APPLICATION. THE PLUMBER SHALL CHECK THE PREVAILING MAINS WATER PRESSURE AND SHALL CONSULT THE MANUFACTURER'S ENGINEERING DEPARTMENT TO VERIFY THE CORRECT SELECTION OF THE PRV PROVIDED IRRESPECTIVE OF ANY MODEL SPECIFIED ON THE DRAWINGS.
37. BACK FLOW PREVENTORS SHALL BE PROVIDED ON ALL BEVERAGE MACHINES AND ICE MAKERS WHETHER SHOWN ON THE DRAWINGS OR NOT.
38. BACK FLOW PREVENTER AT THE BUILDING SERVICE ENTRY SHALL BE LOCAL AUTHORITY APPROVED TYPE IRRESPECTIVE OF WHAT IS SHOWN ON THE DRAWINGS. THE REQUIRED TYPE SHALL BE VERIFIED PRIOR TO BID. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH RECOMMENDED CLEARANCES FOR TESTING AND SERVICE. PROVIDE AN UPSTREAM STRAINER IF INSTALLED AHEAD OF THE PRV. PROVIDE COMPLETE WITH TEST PORTS AND FULL PORT QUARTER TURN BALL VALVES.

## PLUMBING FIXTURE SPECIFICATIONS AND CONNECTION SCHEDULE

| MARK | FIXTURE | TYPE | MANUFACTURER | MODEL NO. | MATERIAL | STYLE | FAUCET/VALVE | | | | DRAIN | | SUPPLIES AND STOPS | PIPE SIZES | | | | MOUNTING | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | MANUFACT. MODEL NO. | SPOUT | HANDLES | CENTERS | TYPE | SIZE | | WASTE | VENT | CW | HW | | |
| WC | WATER CLOSET | FLUSH VALVE | AMERICAN STANDARD | 2234.015 | VITREOUS CHINA | STANDARD ELONGATED | SLOAN ROYAL III | – | – | – | – | – | – | 3" | – | – | – | FLOOR | PROVIDE WITH OPEN FRONT SEAT WITH NO LID |
| HWC | WATER CLOSET | FLUSH VALVE | AMERICAN STANDARD | 2305.100 | VITREOUS CHINA | ADA ELONGATED | SLOAN ROYAL III | – | – | – | – | – | – | 3" | 2" | 1 1/4" | – | FLOOR | PROVIDE WITH OPEN FRONT SEAT WITH NO LID |
| UR | URINAL | FLUSH VALVE | AMERICAN STANDARD | 6501.010 | VITREOUS CHINA | ADA ELONGATED | SLOAN ROYAL 186-1-ADA | – | – | – | – | – | – | 3" | 1 1/2" | 3/4" | – | WALL | MOUNT AT REQUIRED ADA HEIGHT |
| LAV | LAVATORY | WALL HUNG | AMERICAN STANDARD | 0356.421 | VITREOUS CHINA | ADA COMPLIANT | DELTA 87T-111 METERED | CENTERSET | SINGLE LEVER | – | GRID | 1 1/2" | MCGUIRE PW2125 | 2" | 1 1/2" | 1/2" | 1/2" | WALL HUNG | MOUNT AT ADA HEIGHT |
| MS | SERVICE SINK | CAN WASH | BUILT-IN BASIN BY GC | – | – | CUSTOM | CHICAGO 897-CP | WITH PAIL HOOK | LEVER HANDLES | 8" | STRAINER | 3" | – | 3" | 2" | 1/2" | 1/2" | WALL | PROVIDE CAST IRON P-TRAP WITH CLEANOUT & STRAINER |
| FD | FLOOR DRAIN | ROUND TOP | PLASTIC ODDITIES | PAB722R & PGA722R W/ STRAINER | PVC | NICKEL TOP | – | – | – | – | – | – | – | – | – | | | FLOOR | STRAINER, SP-4 PROVIDE TRAP PRIMER PPP P-1 AND 1/2" COPPER SUPPLY TO TRAP |
| FS | FLOOR SINK | ROUND TOP | PLASTIC ODDITIES | PFS400H | PVC | PVC | – | – | – | – | PVC | – | – | – | – | – | – | FLOOR | 1/2" GRATE W/ SECONDARY STRAINER |
| RD | ROOF DRAIN | LARGE SUMP | JOSAM | 21500-AE | POLYPR. DOME | – | – | – | – | – | – | – | – | – | – | – | – | ROOF | G.C. TO INSTALL PC TO PROVIDE AND MAKE FINAL CONNECTION. INSULATE PER CODE. |
| HB | HOSE BIBB | STANDARD | WOODFORD | 24P | CAST BRASS | WALL FAUCET | – | – | LOOSE KEY | – | – | – | – | – | – | 1/2" | – | WALL | |
| NFHB | HOSE BIBB | FREEZE PROOF | WOODFORD | B65 | CAST BRASS | WALL | – | – | – | – | – | – | – | – | – | 1/2" | – | WALL | |
| NFYH | | | | Y34 | | YARD | | | | | | | | | | 3/4" | – | GRADE | |
| NFRH | | | | Y34 | | ROOF | | | | | | | | | | 3/4" | | ROOF | |
| MV1 MV2 | MIXING VALVE | – | SYMMONS | 5-200 | ROUGH BRASS | – | – | – | – | – | – | – | – | – | – | 3/4" | 3/4" | WALL | SET TO DELIVER 110°F TEMPERED WATER |
| WCO | WALL CLEAN-OUT | ROUND COVER | J.R. SMITH | 4472 | CAST IRON | S.S. COVER | – | – | – | – | – | – | – | – | – | – | – | WALL | GAS/WATER TIGHT ABS PLUG |
| FCO | FLOOR CLEAN-OUT | SQUARE TOP | J.R. SMITH | 4040 | CAST IRON | NICKEL BRONZE TOP | – | – | – | – | – | – | – | – | – | – | – | FLOOR | |
| GCO | GRADE CLEAN-OUT | ROUND TOP | J.R. SMITH | 4240 | CAST IRON | CAST IRON TOP | – | – | – | – | – | – | – | – | – | – | – | GRADE | PROVIDE WITH 18"X18"X6" THK CONCRETE PAD AT GRADE. NO HUB, GAS/WATER TIGHT ABS PLUG |
| WH-1 | WATER HEATER | NATURAL GAS | PHOENIX | PH199-805 | GLASS LINED | POWER DIRECT VENT | – | – | – | – | – | – | – | – | – | SEE PLAN | SEE PLAN | SEE DETAIL | 80 GALLON, 199MBH, 120V, 229GPH @ 100° RISE |
| WH-2 | WATER HEATER | ELECTRIC | A.O.SMITH | DEL-36 | GLASS LINED | | – | – | – | – | – | – | – | – | – | SEE PLAN | SEE PLAN | ABOVE CEILING SEE DETAIL | 30 GALLON, 6,000 WATTS, 208V, 1ø 25 GPH @ 100° RISE |

| SYMBOL | PLUMBING LEGEND |
|---|---|
| —— | DOMESTIC (COLD) WATER PIPING |
| —— | HOT WATER PIPING |
| —180°F— | 180°F HOT WATER PIPING |
| —— | EXISTING SANITARY PIPING |
| —— | NEW SANITARY PIPING |
| —GW— | NEW GREASE WASTE PIPING |
| —— | FILTERED WATER PIPING |
| —— | GAS PIPING |
| —— | VENT PIPING |
| —— | TRAP PRIMER LINE |
| —C— | CONDENSATE PIPING |
| —G— | PIPING TURNING DOWN |
| —— | P-TRAP |
| | VENT THROUGH ROOF |
| | SHUT-OFF VALVE |
| | FLOOR/GRADE CLEAN OUT |
| | FLOOR DRAIN |
| | FLOOR SINK |
| | BACK FLOW PREVENTER |
| | GAS SHUT-OFF VALVE |

# FIRE PROTECTION NOTES:

1. THE CONTRACTOR SHALL DESIGN & INSTALL AN AUTOMATIC FIRE SPRINKLER SYSTEM(S) IN FULL COMPLIANCE WITH NFPA 13, NFPA 24 AND NFPA 20 AS APPLICABLE. REFER TO ARCHITECTURAL DRAWINGS FOR NAMES OF ALL AREAS, FIRE RATINGS, ETC.
2. DESIGN CRITERIA: THE CONTRACTOR SHALL DETERMINE THE SPECIFIC REQUIREMENTS OF THE OWNER'S INSURERS AND THE AUTHORITY HAVING JURISDICTION, INCLUDING DESIGN DENSITIES, AREA OF OPERATION AND REQUIRED HAZARD CLASSIFICATION AND OTHER ADDITIONAL SPECIAL REQUIREMENTS AND PROVIDE A SYSTEM TO SUIT. THE CONTRACTOR SHALL PROVIDE THE ARCHITECT WITH DOCUMENTED VERIFICATION OF ALL REQUIREMENTS.
3. THE INSTALLATION SHALL BE DESIGNED IN ACCORDANCE WITH APPLICABLE NFPA STANDARDS UNLESS MODIFIED BY THE OWNER'S FIRE INSURANCE CARRIERS INTERPRETATION GUIDE. ALL PLANS AND FINAL INSTALLATIONS ARE SUBJECT TO ACCEPTANCE BY THE FIRE INSURANCE CARRIER AND THE AUTHORITY HAVING JURISDICTION.
4. THE CONTRACTOR SHALL PREPARE AND SUBMIT DRAWINGS AND CALCULATIONS THAT COMPLY WITH AND PROVIDE ALL THE INFORMATION ITEMIZED UNDER NFPA 13, "WORKING PLANS", "HYDRAULIC CALCULATION FORMS", "WATER SUPPLIES". DRAWINGS SHALL BE PREPARED BY A REGISTERED FIRE PROTECTION PROFESSIONAL ENGINEER OR BY A FIRE PROTECTION CONTRACTOR CERTIFIED IN THE STATE AND COUNTY TO DO SUCH WORK AND SHALL BE SUBMITTED FOR PERMITTING APPROVAL BY THE OWNER'S INSURANCE UNDERWRITERS AND THE AUTHORITY HAVING JURISDICTION.
5. THE PIPING LAYOUT SHALL BE COORDINATED WITH THE BUILDING AND OTHER SERVICES. HVAC DUCTS, RAIN AND SANITARY LINES SHALL HAVE PRIORITY OVER SPRINKLER LINE ROUTING. SPRINKLER LINES SHALL NOT RESTRICT ACCESS TO ANY EQUIPMENT.
6. IT SHALL BE THE RESPONSIBILITY OF THE FIRE PROTECTION DESIGNER AND INSTALLING CONTRACTOR TO VERIFY THAT ADEQUATE WATER SUPPLY IS AVAILABLE TO ENSURE PROPER OPERATION OF THE SYSTEM. THE DESIGN SHALL BE BASED ON WATER SUPPLY (PRESSURE/FLOW) INFORMATION THAT IS NO MORE THAN 6 MONTHS OLD OR AS OTHERWISE REQUIRED BY THE AUTHORITY HAVING JURISDICTION. THE FLOW TEST DATA AND A 24 HOUR GRAPH SHALL BE INCLUDED IN THE SHOP DRAWING SUBMITTAL. THE DESIGN FACTOR OF SAFETY SHALL NOT BE LESS THAN 5 % ABOVE THE LOWEST AVAILABLE WATER SUPPLY (PRESSURE/FLOW) OVER 24 HOURS OR AS OTHERWISE REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
7. THE CONTRACTOR SHALL PROVIDE ALL SWITCHES, ALL AUDIO VISUAL SIGNALING DEVICES, CONNECTION TO THE FIRE ALARM SYSTEM, OFF-SITE MONITORING, COMMUNICATION WITH THE FIRE DEPARTMENT, ETC., AS REQUIRED BY THE OWNER'S INSURANCE UNDERWRITERS AND THE AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL COORDINATE THE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL FIRE PROTECTION EQUIPMENT WITH THE ELECTRICAL CONTRACTOR AND SHALL PROVIDE, AND BE RESPONSIBLE, FOR THE COMPLETE WIRING OF THE SYSTEM.
8. THE CONTRACTOR SHALL DETERMINE THE NEED FOR, AND SHALL BE RESPONSIBLE FOR PROVIDING PERMANENT, FREEZE PROTECTION ON ALL SUSCEPTIBLE PARTS OF THE SYSTEM. PROVIDE A DRY PIPE SYSTEM FOR ANY EXTERIOR PROTECTION REQUIRED. SPRINKLER PIPING IN CEILING SPACES, ATTICS, ETC., SHALL, IN ADDITION TO ANY OTHER FREEZE PROTECTION REQUIRED, BE LOCATED ON THE HEATED SIDE OF THE BUILDING INSULATION ENVELOPE AND SHALL BE INSULATED WITH 1" THICK PREFORMED FIBER GLASS PIPE INSULATION WITH ASJ.
9. THE CONTRACTOR SHALL PAY ALL FEES REQUIRED. THE CONTRACTOR SHALL ARRANGE FOR ALL INSPECTIONS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION PRIOR TO ACCEPTANCE.
10. ALL EQUIPMENT AND PIPING USED SHALL BE UL LISTED AND FM APPROVED FOR USE IN FIRE SPRINKLER SYSTEMS. ALL MAJOR VALVES SHALL HAVE UL LISTED SUPERVISORY SWITCHES. THESE SHALL BE COMPATIBLE WITH ANY EXISTING CENTRAL ALARM SYSTEM.
11. GROOVED (VICTAULIC) COUPLINGS SHALL NOT BE INSTALLED ABOVE OR NEAR ELECTRICAL SWITCHGEAR, PANELS, TRANSFORMERS, ETC.
12. SPRINKLER SYSTEMS SHALL HAVE ALL APPURTENANCES REQUIRED BY NFPA 13 AND LOCAL AUTHORITIES HAVING JURISDICTION AND SHALL INCLUDE AN ALARM-CHECK VALVE, WATER MOTOR GONG, FLOW SWITCH, TEST VALVE ASSEMBLIES, ETC.
13. RECOMMENDATIONS IN THE NFPA STANDARDS ("SHOULD") SHALL BE DEEMED MANDATORY ("SHALL") FOR PURPOSES OF THIS WORK.

## ABBREVIATIONS:

| | | |
|---|---|---|
| AFF | = | ABOVE FINISHED FLOOR |
| BFP | = | BACK FLOW PREVENTER |
| CW | = | COLD WATER |
| °F | = | DEGREES FAHRENHEIT |
| DIA | = | DIAMETER |
| FD | = | FLOOR DRAIN |
| FS | = | FLOOR SINK |
| HD | = | HUB DRAIN |
| HP | = | HORSEPOWER |
| HW | = | HOT WATER |
| IM | = | ICE MAKER BOX |
| IPC | = | INTERNATIONAL PLUMBING CODE |
| LAV | = | LAVATORY |
| PRV | = | PRESSURE REDUCING VALVE |
| RD | = | ROOF DRAIN |
| SAN | = | SANITARY |
| TYP | = | TYPICAL |
| VTR | = | VENT THROUGH ROOF |

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RESTAURANT
J.E. BRISCOE WAY & MADISON BLVD. PROJECT: R-2002
MADISON, MADISON COUNTY ALABAMA DATE: 04/17/20
PLUMBING NOTES, LEGEND & SCHEDULES

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