## PLUN **IBING MATERIALS AND NOTES**

DOMESTIC WATER PIPING / TUBING (ASTM B 88) WITH FITTINGS (AWWA C151, AW LARGER.

DOMESTIC WATER PIPING A
TUBING (ASTM B 88) AND
BE LEAD FREE 95-5 TIN/
SILVER/PHOSPHORUS/COPI
SPECIFIED ABOVE EXCEPT
MECHANICAL COUPLINGS M AND JOINTS <u>ABOVE GRADE</u>: PROVIDE TYPE 'L' HARD DRAWN SEAMLESS COPPER UD CAST COPPER ALLOY FITTINGS (ASME B16.18). JOINTS 1" AND SMALLER SHALL V/SILVER SOLDER JOINTS (ASTM B 32), JOINTS 1½" AND LARGER SHALL BE BCUP DPPER BRAZED JOINTS (AWS A5.8) OR PROVIDE COPPER PIPE AND FITTINGS AS T WITH GROOVED ENDS (ASTM B 88, ASME B16.18) AND JOINTS UTILIZING GROOVED MEETING (ASTM F1476).

STERILIZE THE DOMESTIC WATER SYSTEM IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION'S SPECIFICATIONS AND LOCAL HEALTH DEPARTMENT REGULATIONS.

INSULATE DOMESTIC WATER PIPING ABOVE GRADE (EXCEPT EXPOSED CONNECTIONS TO PLUMBING FIXTURES)

WITH GLASS FIBER INSULATION HAVING A VAPOR BARRIER AND JACKET. PIPE INSULATION SHALL HAVE A

CONDUCTIVITY NOT EXCEEDING 0.27 BTUH × SQ. FT. FOLLOW SCHEDULE BELOW:

SERVICE TYPE

DOMESTIC HOT WATER & CIRCULATION

1/2" - 1/4"

DOMESTIC HOT WATER & CIRCULATION

1/2" - 4"

DOMESTIC COLD WATER

1/2" - 4"

1/2"

DOMESTIC COLD WATER

1/2" - 4"

1/2"

1/2" - 4"

1/2"

1/3"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

1/4"

DOMESTIC WATER PIPING INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS AND ADHESIVES ARE REQUIRED TO MEET A FLAME—SPREAD RATING OF 25 OR LESS AND A SMOKE—DEVELOPED RATING OF 50 OR LESS, AS TESTED BY ASTM E84 (NFPA 255) METHOD AND SHALL BE PLENUM RATED.

PROVIDE FULL PORT, BALL TYPE SHUT—OFF VALVES AND INSTALL IN A LOCATION THAT PERMITS ACCESS FOR SERVICE WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS.

PROTECT COPPER PIPING AGAINST CONTACT WITH DISSIMILAR METALS. ALL HANGERS, SUPPORTS, ANCHORS AND CLIPS SHALL BE COPPER OR COPPER PLATED. WHERE COPPER PIPING IS CARRIED ON TRAPEZE HANGERS WITH OTHER PIPING, PROVIDE A PERMANENT ELECTROLYTIC ISOLATION MATERIAL TO PREVENT CONTACT WITH DISSIMILAR OTHER METALS.

PROTECT COPPER PIPING AGAINST CONTACT WITH ALL MASONRY. WHERE COPPER IS SLEEVED THROUGH MASONRY, PROVIDE COPPER OR RED BRASS SLEEVES. WHERE COPPER MUST BE CONCEALED IN OR AGAINST MASONRY PARTITIONS, PROVIDE A HEAVY COATING OF ASPHALTIC ENAMEL ON THE COPPER PIPIN AND 15# ASPHALT SATURATED FELT BETWEEN THE PIPING AND THE MASONRY PARTITION.

DOMESTIC WATER PIPING SHALL BE SLOPED FOR DRAINAGE WITH DRAIN VALVES INSTALLED AT LOW POINT PIPING

<u></u>0. BALANCE THE DOMESTIC HOT WATER CIRCULATION SYSTEM TO THE PERFORMANCE SPECIFICATIONS INDICATED ON THE PLANS AND PROVIDE THE ENGINEER WITH THREE COPIES OF A COMPLETE TEST AND BALANCE REPORT IS TO BE ISSUED A MINIMUM OF TWO WEEKS PRIOR TO PROJECT COMPLETION. THE TEST AND BALANCE REPORT WILL BE SUBJECT TO REVIEW AND APPROVAL BY THE ENGINEER. ANY ADDITIONAL TESTING, ADJUSTING AND BALANCING REQUIRED (AT ENGINEER'S REQUEST) AFTER REVIEW OF THE INITIAL REPORT SHALL BE PROVIDED AT NO ADDITIONAL COST. TEST AND BALANCE REPORT TO BE COMPLETED BY AN INDEPENDENT, CERTIFIED TEST AND BALANCE CONTRACTOR. SHALL BE SLOPED FOR DRAINAGE WITH DRAIN VALVES INSTALLED AT LOW POINTS.

SANITARY WASTE AND STOP SPIGOT PIPE (ASTM A 74) OR NO-HUB PIPE AND FIT (CISPI 310) OR PROVIDE S WELD JOINTS (ASTM D2855 SPECIFIED ABOVE FOR ALL THESE AREAS. DRM DRAIN PIPING <u>BELOW</u> GRADE: PROVIDE SERVICE WEIGHT CAST IRON HUB AND WITH COMPRESSION JOINTS (CISPI HSN) AND NEOPRENE GASKETS (ASTM C 564) TITINGS (CISPI 301) WITH NEOPRENE GASKET/STAINLESS STEEL CLAMP JOINTS SCHEDULE 40 PVC PIPE AND SOCKET FITTINGS (ASTM D 2665) WITH SOLVENT 55). FOAM CORE PVC PIPE IS <u>NOT</u> APPROVED. PROVIDE CAST IRON PIPING LA KITCHEN AND MECHANICAL ROOM WASTE PIPING, PVC IS <u>NOT</u> ACCEPTABLE IN

SANITARY WASTE/VENT AND STORM DRAIN PIPING <u>ABOVE</u> GRADE: PROVIDE SERVICE WEIGHT CAST IRON NO—HUB PIPE AND FITTINGS (CISPI 301) WITH NEOPRENE GASKET AND STAINLESS STEEL CLAMP JOINTS (CISPI 310) OR PROVIDE SCHEDULE 40 PVC PIPE AND SOCKET FITTINGS (ASTM D 2665) WITH SOLVENT WELD JOINTS (ASTM D2855). FOAM CORE PIPE IS <u>NOT</u> APPROVED. DO <u>NOT</u> INSTALL PVC PIPING IN RETURN AIR PLENUMS.

SLOPE SANITARY WASTE , SMALLER AND 1/8" PER F KITCHEN WASTE PIPING A

SLOPE SANITARY WASTE AND STORM DRAIN PIPING AT 1/4" PER FOOT MINIMUM FOR PIPING 21/2" AND MALLER AND 1/8" PER FOOT MINIMUM FOR PIPING 3" AND LARGER UNLESS NOTED OTHERWISE. SLOPE ALL CITCHEN WASTE PIPING AT 1/4" PER FOOT MINIMUM.

PROVIDE CLEAN—OUTS AT THE BASE OF SANITARY WASTE STACKS AND STORM DRAIN RISERS AND AT EVERY URN IN PIPING IN EXCESS OF 45" AND NO FURTHER THAN 100"—0" APART IN A LOCATION THAT PERMITS ACCESS FOR SERVICE WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS.

PROVIDE FLOOR CLEANOUTS WITH TOPS DESIGNED TO MATCH SPECIFIC FLOOR FINISHES SUCH AS CARPET, TILE, ETC. YARD CLEANOUTS SHALL BE PROVIDED IN AN 18"x18"x6" CONCRETE PAD.

WHERE WASTE PIPING IS EXPOSED IN REST ROOM AREAS, PROVIDE CHROME PLATED BRASS PIPING, REMOVABLE P-TRAPS, MATCHING STOPS AND ESCUTCHEONS FOR ALL LAVATORIES. INSULATE MECHANICAL ROOM FLOOR DRAIN BODIES, P'TRAP AND HORIZONTAL DRAIN PIPING ABOVE GRADE WITH 1" THICK GLASS FIBER INSULATION WITH VAPOR BARRIER AND JACKET.

INSULATE ROOF DRAIN BODIES AND HORIZONTAL PRIMARY AND SECONDARY STORM DRAIN PIPING ABOVE GRADE WITH 1" THICK GLASS FIBER INSULATION WITH VAPOR BARRIER AND JACKET.
PIPING INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS AND ADHESIVES ARE REQUIRED TO MEET A FLAME—SPREAD RATING OF 25 OR LESS AND A SMOKE—DEVELOPED RATING OF 50 OR LESS, AS TESTED BY ASTM E84 (NFPA 255) METHOD.

10. SUMP PUMP DISCHARGE F GALVANIZED 150 POUND N DISCHARGE LINE AT 1% SI

PIPING: PROVIDE SCHEDULE 40 GALVANIZED STEEL PIPE (ASTM A53) AND MALLEABLE IRON FITTINGS (ASME B16.3) WITH THREADED JOINTS. SLOPE SUMP SLOPE TOWARDS SUMP PUMP.

## NATURAL GAS PIPING:

NATURAL GAS PIPING AND FITTINGS <u>ABOVE</u> GRADE: SCHEDULE 40 BLACK STEEL PIPING, TYPE S, SEAMLESS, GRADE B (ASTM A 53) AND 150 PSI MALLEABLE BLACK IRON FITTINGS, GRADE 32510, (ASTM B 16.3) OR FORGED STEEL WELDING TYPE FITTINGS (ASTM A234). PROVIDE THREADED JOINTS FOR PIPE 2" AND SMALLER. PROVIDE WELDED JOINTS (ASME B31.9) FOR PIPE 2½" AND LARGER.

NATURAL GAS PIPING AND FITTINGS OUTSIDE <u>BELOW</u> GRADE: SCHEDULE 40 BLACK STEEL, TYPE S, SEAMLESS, GRADE B (ASTM A 53) AND FORGED STEEL WELDING TYPE FITTINGS (ASTM A234) WITH (AWWA C105) POLYETHYLENE JACKET OR DOUBLE LAYER, HALF LAPPED 10 MIL POLYETHYLENE TAPE. PROVIDE WELDED JOINTS (ASME B31.9) FOR ALL UNDERGROUND PIPE.

GAS PIPING SHALL BE INSTALLED TO THE REQUIREMENTS OF THE STATE BUILDING CODE AND NFPA STANDARD NO. 54. SPACE GAS PIPING HANGER RODS 8'-0" ON CENTER MAXIMUM AND SPACE TRANSVERSE BRACING 20'-0" ON CENTER MAXIMUM. TRANSVERSE BRACING FOR ONE SECTION MAY ACT AS LONGITUDINAL BRACING FOR THE PIPE SECTION CONNECTED TO IT IF THE BRACING IS INSTALLED WITHIN 24" OF THE ELBOW OR TEE. PIPING SHALL BE SUPPORTED BY ROD HANGERS IN THE PIPE RUN 12" OR LESS IN LENGTH FROM THE TOP OF THE PIPE TO THE SUPPORTING STRUCTURE PER THE STATE BUILDING CODE AND ASCE 7. COORDINATE HANGER LOCATIONS WITH STRUCTURAL DRAWING DETAILS.

PROVIDE A.G.A. CERTIFIED BRONZE BODY AND BRONZ MANUFACTURER) FOR ALL ) SHUT-OFF VALVES MINIMUM, 125 PSI RATED, NON- LUBRICATED PLUG TYPE WITH NZE PLUG, STRAINERS AND REGULATORS (AS RECOMMENDED BY THE EQUIPMENT LEQUIPMENT CONNECTED TO THE NATURAL GAS SYSTEM.

PAINT ALL GAS PIPING WITH 2 COATS OF YELLOW ENAMEL PAINT APPLIED WITH A BRUSH (2 MIL THICKNESS MINIMUM). STENCIL "GAS" ON PIPE AT 12'-0" CENTERS FOR ALL LOW PRESSURE PIPING (0.5 PSI). STENCIL "2-PSI GAS" ON PIPE AT 6'-0" CENTERS FOR 2 PSI GAS PIPING.

PLUMBING GENERAL NOTES

EXISTING PIPING

NEW PIPING

ABBR.

DESCRIPTION

COLD WATER PIPING

PLUMBING LEGEND

 $\widehat{\mathbb{H}}$ 

Ē

ESD

EMERGENCY STORM DRAIN PIPING

6800 S Creek Rd, Charlotte, NC 28277 Ph:(704) 625-6554 Fax:(704) 919-5822 EMAIL:ashish@mishraarch.com WEB: www.mishraarch.com

CSD

STORM DRAIN PIPING -

BEL. GRADE ABV. CEILING

SANITARY VENT PIPING SANITARY WASTE PIPING

 $\leq$ 

工

PLLC A

ARCHITECTURE

HOT WATER PIPING HOT WATER RETURN PIPING

Ð

GENERAL REQUIREMENTS:

PLUMBING WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LOUISIANA STATE PLUMBING CODE INCLUDING TITLE 51 AND WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION. GENERAL AND SPECIAL CONDITIONS ARE HEREBY MADE AN INTEGRAL PART OF THE PLUMBING SPECIFICATIONS INSOFAR AS THE GENERAL AND SPECIAL CONDITIONS ARE APPLICABLE TO THE PLUMBING WORK, UNLESS OTHERWISE SPECIFIED.

SCOPE: PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL PLUMBING SYSTEMS IN ACCORDANCE WITH ALL APPLICABLE CODES.

PERMITS: APPLY AND PAY FOR ALL NECESSARY PERMITS, FEES AND INSPECTIONS REQUIRED BY ANY PUBLIC AUTHORITY HAVING JURISDICTION. ACREAGE CHARGES, FACILITIES CHARGES AND BOND PROPERTY ASSESSMENTS ARE NOT TO BE CONSTRUED TO BE A PART OF THIS CONTRACT.

WARRANTY: PROVIDE A ONE YEAR WARRANTY, FROM THE DATE OF ACCEPTANCE OF WORK BY THE OWNER, FOR ALL PLUMBING MATERIALS AND EQUIPMENT.

COORDINATE ALL PLUMBING PIPING LOCATIONS, ROUGH—IN LOCATIONS AND EQUIPMENT LOCATIONS WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES. FINAL PIPING AND EQUIPMENT LOCATIONS SHALL BE A CODE COMPLIANT INSTALLATION FOR ALL TRADES.

\*\*\* Œ

D

GREASE LADEN WASTE PIPING

EXISTING PIPING TO BE REMOVED

NATURAL GAS PIPING

ELBOW UP

FIELD VERIFY PROPER OPERATION OF EXISTING SYSTEMS BEFORE STARTING CONSTRUCTION. NOTIFY THE ARCHITECT / ENGINEER OF RECORD OF ANY PROBLEMS OR DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND EXISTING CONDITIONS AND/OR ANY POTENTIAL PROBLEMS OBSERVED BEFORE CONTINUING WORK IN THE EFFECTED AREAS.

PLUMBING PLANS SHALL NOT BE SCALED. REFERENCE THE ARCHITECTURAL PLANS FOR ALL LOCATIONS OF PLUMBING FIXTURES, WALLS, DOORS, WINDOWS, ETC. CUT WALLS, FLOORS AND CEILINGS AS REQUIRED FOR INSTALLATION OF PLUMBING WORK. ALL CUTTING SHALL BE HELD TO A MINIMUM. PATCH AND FINISH SURFACES TO MATCH ADJOINING SURFACES.

10. PLUMBING PIPING SHALL BE LOCATED CONCEALED IN WALLS, PARTITIONS OR ABOVE CEILINGS UNLESS NOTED OTHERWISE. PLUMBING PIPING IN EXPOSED AREAS SHALL BE RUN TIGHT TO UNDERSIDE OF STRUCTURE. PLUMBING PIPING, VENTS, ETC. EXTENDING THROUGH EXTERIOR WALLS AND/OR THE ROOF SHALL BE FLASHED AND COUNTER FLASHED IN A WATERPROOF MANNER. COORDINATE FLASHING WITH THE GENERAL CONTRACTOR.

**=** 

12.

DO  $\underline{\text{NOT}}$  install plumbing piping in areas subject to freezing temperatures. Install plumbing piping shown in exterior walls on the conditioned side of the wall insulation.

RPZ

EDUCED PRESSURE ZONE BACKFLOW PREVENTER

DLENOID VALVE

RESSURE REDUCING/REGULATING VALVE

₽

BALANCING VALVE / CIRCUIT SETTER
GAS COCK

**ENGINEERING** 

SHULTZ

GROUP, PC
212 N. McDowell St
Suite 204
Charlotte, NC 28204
(P) 704.334.7363
(F) 704.347.0093
www.shultzeg.com
SEG - 13-039

8

CHECK VALVE

BALL VALVE

IPE CAP

CONTINUES

FCO

PIPE REDUCER
FLOOR CLEAN OUT

WALL CLEAN OUT

IN-LINE PUMP DIRECTION OF FLOW

3

ARD CLEAN OUT

G

PROVIDE NON-CONDUCTING DIELECTRIC UNIONS WHENEVER CONNECTING DISSIMILAR METALS. ATTACH HANGERS TO STRUCTURE, HANGERS SHALL NOT ATTACH TO THE DECK.

PROVIDE ACCESS DOORS FOR VALVES, WATER HAMMER ARRESTORS, TRAP PRIMERS, ETC. CONCEALED IN MASONRY WALLS, GYPBOARD WALLS AND/OR CEILINGS THAT WILL REQUIRE MAINTENANCE ACCESS.

16. PLUMBING SYSTEMS INCLUDE, BUT ARE NOT LIMITED TO: PLUMBING FIXTURES AND EQUIPMENT, FIRE STOPPING, SEISMIC BRACING, PIPE IDENTIFICATION, DOMESTIC WATER SYSTEM, SANITARY WASTE AND VENT SYSTEM, STORM DRAIN SYSTEM, NATURAL GAS SYSTEM

PLUMBING FIXTURES AND EQUIPMENT: PROVIDE COMPLETE PLUMBING FIXTURES AND EQUIPMENT. INCLUDE SUPPLIES, STOPS, VALVES, FAUCETS, DRAINS, TRAPS, TAIL PIECES, ESCUTCHEONS, ETC.
PLUMBING FIXTURES AND EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS.

THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH SUBSTITUTIONS TO SPECIFIED PLUMBING FIXTURES AND EQUIPMENT INCLUDING BUT NOT LIMITED TO; PROVIDING MAINTENANCE ACCESS CLEARANCE, PIPING, ELECTRICAL, REPLACEMENT OF OTHER SYSTEM COMPONENTS, BUILDING ALTERATIONS, ETC. AND ANY MODIFICATIONS TO ASSOCIATED MECHANICAL, ELECTRICAL OR PLUMBING SYSTEMS REQUIRED BY THE EQUIPMENTS INSTALLATION INSTRUCTIONS. ALL COSTS ASSOCIATED WITH SUBSTITUTIONS SHALL BE INCLUDED IN THE ORIGINAL BASE BID.

FIRE STOP ALL PENETRATIONS, BY PIPING OR CONDUITS, OF FIRE RATED WALLS, FLOORS AND PARTITIONS. PROVIDE A DEVICE(S) OR SYSTEM(S) WHICH HAS BEEN TESTED AND LISTED AS COMPLYING WITH ASTM E-814 AND INSTALL IN ACCORDANCE WITH THE CONDITIONS OF THEIR LISTING. PROVIDE A DEVICE(S) OR SYSTEM(S) WITH AN 'F' RATING EQUAL TO THE RATING OF THE ASSEMBLY BEING PENETRATED. REFER TO ARCHITECTURAL PLANS FOR WALL AND FLOOR TYPES.

SEISMIC BRACING:

PROPERLY SUPPORT AND BRACE VERTICALLY AND HORIZONTALLY ALL PIPING, APPARATUS, EQUIPMENT, ETC. IN ACCORDANCE WITH APPLICABLE CODES TO PREVENT EXCESSIVE MOVEMENT DURING SEISMIC CONDITIONS.

PIPE IDENTIFICATION: PIPE IDENTIFICATION SHALL MATCH THE FACILITY'S EXISTING STANDARD. IF NO STANDARD EXISTS, THEN THE PIPE IDENTIFICATION SHALL BE IN ACCORDANCE WITH ANSI A13.1.

PROVIDE PIPING LABELS FOR ALL PLUMBING PIPING. PIPING LABELS SHALL BE ACRYLIC FACED, WRAP-AROUND TYPE. EACH LABEL SHALL INDICATE THE PIPING CONTENTS, DIRECTION OF FLOW AND SHALL BEAR THE MANUFACTURER'S STANDARD COLOR FOR THE SERVICE INDICATED.

ADDITIONAL ABBREVIATIONS SA BB PS POINT OF DEMOLITION CONNECT TO EXISTING SHOCK ARRESTOR HOSE BIBB/WALL HYDRANT SUFFIX INDICATES PDI SIZE

₹	₹	푹	GPM	2	꿄	7	FIN	뀲	ᄝ	물	CONT	CLG	CFH F	HUTB	똮	쀽	BEL	BAS	AFF	ABV
INDIRECT WASTE	INVERT ELEVATION	HORSE POWER	GALLONS PER MINUTE	FIXTURE UNITS	FROM	FLOOR		FINISHED FLOOR ELEVATION	DOWN	DRAINAGE FIXTURE UNIT (WASTE)	CONTINUATION	CEILING	CUBIC FEET PER HOUR	BRITISH THERMAL UNIT / HOUR	BELOW FINISHED FLOOR	BARRIER FREE	BELOW	BUILDING AUTOMATION SYSTEM	ABOVE FINISHED FLOOR	ABOVE
PC	N C	င်	FSEC	EC	}	WC	≤R	<b>\</b>	€	€	Τ₩	W	T&P	ŞF	PSI	ヱ	ĭ	MBH	₹	WW
PLUMBING CONTRACTOR	MECHANICAL CONTRACTOR	GENERAL CONTRACTOR	FOOD SERVICE EQUIP. CONTRAC	ELECTRICAL CONTRACTOR		WATER COLUMN	VENT THRU ROOF	VALVE	VACUUM BREAKER	URINAL	TYPICAL	TEMPERED WATER	TEMPERATURE AND PRESSURE	SQUARE FEET	POUNDS PER SQUARE INCH	PHASE	MOUNTING HEIGHT	1,000 BTUH	LAVATORY	KILOWATT

## FLOW TEST INFORMATION

WATER MAIN SIZES: 8" & 12" STATIC PRESSURE: 60 PSIG RESIDUAL PRESSURE: 45 PSIG PITOT: 30 GPM: 920 FLOW TEST DATE: 4-22-2013 TEST CONDUCTED BY: ANTONIO DENNIS AND JERRY BELTON LOCATION: AT OR AROUND SAM'S CLUB, 5400 FRONTAGE RD

> Information contained on this drawing and in all digital files associated is authorized for use on the project named herein only and is the property of MISHRA ARCHITECTURE PLLC and may not be reproduced in any manner without express written or verbal permission from authorized individuals. Original drawing is 24"x36" and scales are as indicated.© 2011 MISHRA ARCHITECTURE PLLC WCAL ENGINEERING

KEY PLAN

Southern Hospitality Services

Hampton Inn and Suites

5400 I-20 & Frontage Rd. Monroe, LA 71201 Schedule and Notes - Plumbing

P001

Hampton Inn and Suites