



Order Plans @

UNDER SLAB ROUGH-IN PLAN

NOTES:
 1. SEE SHEET K-1.0 FOR EQUIPMENT SCHEDULE.
 2. ALL DIMENSIONS SHOWN ARE FROM FACE OF EXTERIOR FINISH WALL TO CENTER OF FIXTURE, UNLESS NOTED OTHERWISE.
 3. DIMENSIONS ARE SHOWN FOR REFERENCE ONLY AND MUST BE FIELD VERIFIED w/ WALL DIMENSIONS SHOWN ON FLOOR PLAN.

- PLUMBING SHEET NOTES**
- ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.
 - THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.
 - THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.
 - THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.
 - THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITH THESE DRAWINGS UNLESS OTHERWISE NOTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND/OR INSTALLATION.
 - ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTORS EXPENSE. COORDINATE WITH OWNERS ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES.
 - THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER.
 - ALL WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PROPER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITH NO ADDITIONAL COST TO THE OWNER.
 - ALL KITCHEN, PREP AREA AND SALES AREA EQUIPMENT WILL BE FURNISHED AND INSTALLED. EQUIPMENT WILL BE FURNISHED WITH TRIM, FAUCETS, ESCUTCHEONS, ETC. PLUMBING CONTRACTOR SHALL PROVIDE ALL ROUGH-IN TRAPS AND MAKE ALL FINAL CONNECTIONS (SEE EQUIPMENT SCHEDULE).
 - ALL PIPING TO BE CONCEALED IN HUNG CEILINGS, CHASES AND FURRED SPACES.
 - REFER TO EQUIPMENT SCHEDULE AND EQUIPMENT SPECIFICATIONS FOR EXACT LOCATIONS OF PLUMBING CONNECTIONS.
 - THE CONTRACTOR SHALL VERIFY DEPTH, SIZE, LOCATION OF ALL EXISTING UTILITIES IN FIELD PRIOR TO STARTING WORK.
 - THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL PIPE HANGERS, AND SUPPORTS IN ACCORDANCE WITH THE LOCAL APPLICABLE CODES.
 - THE CONTRACTOR TO PROVIDE TRAP PRIMERS, DEEP SEAL TRAP OR TRAP SEAL ON ALL FLOOR DRAINS AS PER APPLICABLE CODE.
 - ALL PENETRATIONS REQUIRED FOR PLUMBING EQUIPMENT AND PIPING THROUGH ANY WALL SHALL BE PROPERLY SEALED OFF TO MAINTAIN THE INTEGRITY OF THE STRUCTURE.
 - ALL SHUT-OFF AND ISOLATION VALVES SHALL BE BALL TYPE. ALL VALVES SERVING TOILETS AND SINKS SHALL BE ANGLE STOP TYPE.
 - PROVIDE AN INDIVIDUAL BALL VALVE AND BACK CHECK VALVE TO EACH INDIVIDUAL FLOOR EQUIPMENT.
 - PROVIDE BACKFLOW PREVENTERS AT ALL COFFEE MAKERS, BAGEL OVEN DISPENSERS, ICE CREAMER AND ALL OTHER EQUIPMENT AS REQUIRED BY CODE.
 - PROVIDE AERATORS ON ALL HAND SINKS AND SINKS TO REDUCE WATER FACILITY AND TOILET SINK. MOUNT BOTTLE AND DISPENSER ABOVE SINK. DISPENSER SHALL BE MOUNTED TO THE SINK.
 - SANITARY SEWER AND VENT LINES, WASH LINES, VENTS, AND BUILDING DRAINS SHALL BE POLYETHYLENE GLYCOL (PE) WITH SCHEDULE 40 MINIMUM. ABS PLASTIC, CPVC AND DOW COPPER ARE ALSO ACCEPTABLE FITTINGS. VALVES ALLOWED OR SOLID BRASS ONLY. ALL PRODUCTS SHALL BEAR THE SEALING NATIONAL RECOGNIZED LOGO OR CERTIFYING AGENCY.
 - DOMESTIC WATER PIPING SHALL BE 1/2" OR 3/4" TYPE "L" COPPER, INSULATED WITH 1" ARMAFLEX OR EQUIVALENT.
 - DOMESTIC WATER PIPING IN FLOOR SHALL BE TYPE "L" COPPER.
 - WATER FIXTURES SHALL MEET THE FOLLOWING STANDARDS:
 24.1. TOILET CLOSET (TOILET) - 1.25 GPM PER FLUSH
 24.2. LAVATORY (SINK, FAUCET) - 1.5 GPM PER MINUTE
 25. FLOOR DRAINING EXPOSURE TO WEATHER MUST BE METALLIC.
 26. ALL FERRULES EXPOSED TO WEATHER MUST BE GALVANIZED.
 27. PLASTIC COORDINATE FITTINGS MUST BE DWV RATED, OR 90° TURNS ACCOMPLISHED WITH TWO 45° FITTINGS.
 28. ALL DRAINAGE PIPING TO HAVE A MINIMUM SLOPE OF 1/8" PER FOOT.
 29. DRAINAGE FIXTURES BELOW THE NEXT UPSTREAM MANHOLE COVER, OR BELOW THE MAIN SEWER SHALL COMPLY WITH GOVERNING CODES.

FIXTURE FLOW RATE TABLE

FIXTURE TYPE	MAX. FLOW RATE AT 20% REDUCTION
LAVATORY FAUCETS	0.4 GPM @ 60 PSI
KITCHEN FAUCETS	1.8 GPM @ 60 PSI
METERING FAUCETS	0.2 GALLONS/CYCLE
GRAVITY TANK TYPE WATER CLOSETS	1.28 GALLONS/FLUSH

STANDARD FOR PLUMBING FIXTURES & FIXTURE FITTINGS

REQUIRED STANDARDS	
WATER CLOSETS (TOILETS) - TANK TYPE	U.S. EPA WATER SENSE TANK-TYPE HIGH EFFICIENCY TOILET SPECIFICATIONS
URINALS, MAXIMUM FLUSH VOLUME	ASME A 112.19.2CSA B46.1 - 0.5 GAL
LAVATORY FAUCETS: MAXIMUM FLOW RATE - 0.5 GPM	ASME A 112.18.1CSA B 125.1
METERING SELF-CLOSING FAUCETS: MAXIMUM WATER USAGE - 0.25 GAL PER METERING CYCLE	ASME A 112.18.1CSA B 125.1

MATERIAL SCHEDULE

SYSTEM	OUTSIDE BLDG				INSIDE BLDG				NOTES		
	BELOW GRADE		ABOVE GRADE		BELOW GRADE		ABOVE GRADE				
	MATERIAL	FITTINGS	MATERIAL	FITTINGS	MATERIAL	FITTINGS	MATERIAL	FITTINGS			
SOL. WASTE AND VENT PIPING	SCHED. 40 ABS	SOLVENT WELD	SCHED. 40 ABS	SOLVENT WELD	SCHED. 40 ABS	SOLVENT WELD	SCHED. 40 ABS	SOLVENT WELD	WHERE APPROVED BY CODE, ABS PLASTIC PIPING, WRAPPED PER CODE WHERE PENETRATING CONCRETE.		
WATER PIPING	SCHED. 40 PVC	SOLVENT WELD	SCHED. 40 PVC	TYPE "L" COPPER	LEAD FREE SOLDER	WROUGHT COPPER	-	TYPE "L" COPPER	LEAD FREE SOLDER	WROUGHT COPPER	OUTSIDE BLDG. BELOW GRADE - WHERE APPROVED BY LOCAL GOVERNING AGENCY, SCHEDULE 40 PVC PIPE AND FITTINGS MAY BE USED. INSIDE & OUTSIDE BLDG. ABOVE GRADE - TYPE "L" COPPER TUBE W/ PRECESSED SHOULDER FITTINGS. WHERE APPROVED BY GOVERNING AGENCY, TYPE "M" MAY BE USED.
CONDENSATE DRAIN PIPE AND INDIRECT DRAINAGE PIPE	SCHED. 40 PVC	SOLVENT WELD	SCHED. 40 PVC	TYPE "M" COPPER	855 SILVER SOLDER JOINT	TYPE "M" COPPER	TYPE "M" COPPER	855 SILVER SOLDER JOINT	TYPE "M" COPPER	855 SILVER SOLDER JOINT	INSULATE WITH 1/2" ARMAFLEX CLOSED CELL PIPE INSULATION WITH SELF SEALING ADHESIVE JOINTS, OR EQUIVALENT.

NOTES:
 IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY WITH THE LOCAL GOVERNING AUTHORITY, THE ACCEPTABILITY OF PLASTIC PIPE AS SPECIFIED ABOVE.
 INSULATION
 ALL HOT WATER MAINS, EXCEPT RUN-OUTS TO FIXTURES, BUT INCLUDING HOT WATER SUPPLY AND TRAP AT HANDICAPPED LAVATOIRES, SHALL BE INSULATED WITH 3/4" THICK, SNAP ON FIBERGLASS INSULATION WITH CANVAS JACKET, 45 MINIMUM.

PLUMBING LEGEND

SYMBOL	ABBREV.	DESCRIPTION
---	SORW	SOL. OR WASTE (BELOW GRADE)
---	GW	GREASE WASTE
---	V	VENT
---	CD	CONDENSATE DRAIN
---	ST	STORM DRAIN
---	CW	COLD WATER
---	FW	FILTERED WATER
---	SW	SOFTENED WATER
---	FSW	FIRE SERVICE WATER
---	HW	HOT WATER
---	HWR	HOT WATER RETURN
---	RCL	ROOM HEAT RECLAIM
---	G	GAS, AIR, OR PROP.
---	UP	PIPE UP
---	DN	PIPE DOWN
---	CCO	FLOOR CLEANOUT
---	DCO	DOUBLE CLEANOUT
---	CO	CLEANOUT, WALL OR PIPE
---	SOV	SHUT-OFF VALVE
---	SOV	SHUT-OFF VALVE, NORMALLY OPEN
---	SOV	SHUT-OFF VALVE, NORMALLY CLOSED
---	CV	CHECK VALVE
---	B.V.	BALANCING VALVE
---	U	UNION
---	P.V.	MECHANICAL PLUG VALVE (GAS)
---	BOC	SHUT-OFF COCK (GAS)
---	BAV	EARTHQUAKE ACTIVATED AUTOMATIC VALVE (GAS)
---	B.V.	ELECTRIC SOLENOID VALVE (GAS)
---	P.R.	PRESSURE REGULATOR (GAS)
---	POC	POINT OF CONNECTION
---	TAP	TEMPERATURE & PRESSURE RELIEF VALVE
---	VTR	VENT TO ROOF
---	HD	HUB DRAIN
---	FD	FLOOR DRAIN (COORDINATE GRATE REQS)
---	FS	FLOOR SINK (COORDINATE GRATE REQS)
---	AW	AIR ADMITTANCE VALVE
---	KEC	KITCHEN EQUIPMENT CONTRACTOR
---	BTUH	BRITISH THERMAL UNITS PER HOUR
---	MBH	BTUH X 1000
---	CFH	CUBIC FEET PER HOUR (1 MBH = 1 CFH)
---	(E)	EXISTING
---	I.E.	INVERT ELEVATION
---	CONN	CONNECTION
---	FU	FIXTURE UNITS
---	GPM	GALLONS PER MINUTE
---	GPH	GALLONS PER HOUR
---	HP	HORSEPOWER
---	PSI	POUNDS PER SQUARE INCH
---	AP	ACCESS PANEL
---	W	WITH
---	FLR	FLOOR
---	CLG	CEILING
---	ABV	ABOVE
---	BEL	BELOW
---	UG	UNDERGROUND
---	DN	DOWN
---	CONT.	CONTINUE
---	TYP.	TYPICAL
---	FOR	FRONT OF HOUSE
---	BOH	BACK OF HOUSE
---	A.D.A.	AMERICAN DISABILITIES ACT
---	A.F.F.	ABOVE FINISH FLOOR
---	B.F.F.	BELOW FINISH FLOOR

J. CORBETT THOMSON, PE
 2120 Dilworth Road East
 Charlotte, NC 28203
 704.333.1020
 Corbett@CorbettEngineering.com

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9/13/19

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2400 North 7th Street
 West Monroe, LA 71291
 Store Number:

FRANCHISEE:
 Ankur Patel
 BP Scoops & Smiles LLC dba
 BaskinRobbins
 2408 Louisville Ave.
 Monroe LA 71201
 (850) 368-9477
 ankurpatel03@yahoo.com

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**UNDER SLAB ROUGH IN
 PLAN & NOTES**