

PLUMBING FIXTURE SCHEDULE												
DESIGNATION	FIXTURE	SIZE	TYPE	MANUFACTURER	MODEL NO.	COLOR	TRAP	CARRIER	MOUNTING HEIGHT	SUPPLY FITTING	BTOP VALVE	REMARKS
WC-1	HCP WATER CLOSET	ELONGATED	FLOOR MOUNTED	AMERICAN STANDARD	3043.001	WHITE	INTEGRAL	NONE	RM 17'-1/4" ABOVE FLOOR	SLOAN ROYAL 111-YO	---	REVIS NO. 1955-86C, OPEN FRONT, SELF SUSTAINING CHECK HINGE SEAT-HANDICAPPED ACCESSIBLE
LAV-1	LAVATORY	---	COUNTERTOP	ELKAY	RLLR12	---	MCQUIRE C892F	NONE	SEE ARCH. DRAWINGS	AMERICAN STANDARD 1340.825	H2167CCLK	MCQUIRE NO. 115A STRAINER WITH TAILPIECE. PROVIDE WATER-CONSERVING, PRESSURE COMPENSATING VANDAL RESISTANT AREATOR FOR FAUCET, INSULATE HOT WATER SUPPLY AND DRAIN PIPING, HANDICAPPED ACCESSIBLE FAUCET FURNISHED AND INSTALLED BY G.C. REFER TO A6.3 FOR EXACT FAUCET LOCATION
SK-1	SALON SINK	---	COUNTERTOP	ELKAY	LR1716	---	MCQUIRE C891Z	NONE	SEE ARCH. DRAWINGS	GROHE EUROSMART 32843.00A CHROME FINISH	H2167CCLK	MCQUIRE NO. 115A STRAINER WITH TAILPIECE. PROVIDE WATER-CONSERVING, PRESSURE COMPENSATING VANDAL RESISTANT AREATOR FOR FAUCET, INSULATE HOT WATER SUPPLY AND DRAIN PIPING, HANDICAPPED ACCESSIBLE FAUCET FURNISHED AND INSTALLED BY G.C. REFER TO A6.3 FOR EXACT FAUCET LOCATION
SK-2	SHAMPOO SINK	---	COUNTERTOP	FURNISHED BY ULTA	---	---	---	NONE	SEE ARCH. DRAWINGS	---	H2167CCLK	FURNISHED BY ULTA AND INSTALLED BY G.C. THERMOSTATIC MIXING VALVE BY SHAMPOO SUPPLIER
SK-4	COFFEE BAR SINK	---	COUNTERTOP	ELKAY	RLLR12	---	MCQUIRE C891Z	NONE	SEE ARCH. DRAWINGS	GROHE CONECTO 32855.001 CHROME FINISH	H2167CCLK	FURNISHED AND INSTALLED BY G.C. MAINTAIN 1/2" CLEAR BETWEEN SINK FLANGE AND FACE OF SPOUT.
SK-6	SHIN BAR	---	COUNTERTOP	SIGNATURE HARDWARE	018626	---	MCQUIRE C891Z	NONE	SEE ARCH. DRAWINGS	GROHE EUROSMART 32843.00A CHROME FINISH	H2167CCLK	2.2 GPM MAX AT 60 PSI. 9" INFINITE NARROW, TOP MOUNT BOWL, FAUCET, STOP AND DRAIN FURNISHED AND INSTALLED BY G.C. SUPPLY FITTING LAVATORY CENTERSET LESS DRAIN. PURCHASE ELKAY 80R15 BOWL, #918626 IS NOT AVAILABLE
MB-1	MOP BASIN	24"x24"	FLOOR MOUNTED	FIAT	MSB-2424	WHITE	3" CAST IRON	NONE	SEE REMARKS	CHICAGO FAUCET NO. 897-CR07	INTEGRAL	MOUNT SUPPLY FITTING 30" ABOVE FLOOR, ROUGH CHROME FINISH WITH INTEGRAL VACUUM BREAKER
EWC-1	ELECTRIC WATER COOLER	---	WALL MOUNTED	ELKAY	EZ3TL8LC	STANDARD FINISH	MCQUIRE C892F	SMITH 834	CENTERLINE OF BUSSLER ORIFICE 30" & 41" ABOVE FLOOR	INTEGRAL	H2167CCLK	HANDICAP ACCESSIBLE, 120 VOLT - 1 PHASE. PROVIDE OPTIONAL LKAPREZ APRON
WWB-1	WASHER WALL BOX	---	WALL RECESSED	GLY GREY CO. PRODUCTS	B-200	GREY	2" CAST IRON "P" TRAP	---	RM 42" ABOVE FLOOR	INTEGRAL	1/2" BALL VALVE (ABOVE CEILING)	FINAL CONNECT CLOTHES WASHER SUPPLIES AND LINES.
TP-1	TRAP PRIMER	---	MOUNTED IN WALL	PRECISION PLUMBING PRODUCTS	P1-500	NA	NA	---	18" ABOVE FINISHED FLOOR	NA	1/2" BALL VALVE	PROVIDE CHROME PLATED ACCESS PANEL AND AG-900 AIR GAP CONNECTION

* PROVIDE TRAP PRIMER PROTECTION ON ALL FLOOR DRAINS.

VALVE SCHEDULE			
TYPE	MANUFACTURER	LEAD FREE MODEL	MEETING NSF 61, ANNEK G AND NSF 372
GATE	NIBCO	S-113-LF	
	HAMMOND	UP-968	
BALL	MILWAUKEE	UP-968	
	APOLLO	70-LF-200	
CHECK	HAMMOND	UP-9501	
	MILWAUKEE	UPBA-150	
AUTOMATIC BALANCING	NIBCO	S-413-Y-LF	
	MILWAUKEE	LP-150R	
	APOLLO	163S-LF	
	BELL AND GOSSETT	RF-128 "CIRCUIT SETTER"	

THERMOSTATIC MIXING VALVE SCHEDULE			
DESIGNATION	MANUFACTURER	MODEL	NOTES
TMV-1	LEONARD	170LF	MOUNT UNDER FIXTURE, ASSE 1010 CERTIFIED.

FIXTURE CONNECTION SCHEDULE				
FIXTURE	CW	HW	WASTE	VENT
LAV	1/2"	1/2"	2"	1-1/2"
EWC	1/2"	---	2"	1-1/2"
WC	1-1/4"	---	4"	---
FD	---	---	4"	2"
SK	1/2"	1/2"	2"	1-1/2"
MB	3/4"	3/4"	2"	---
WWB	3/4"	3/4"	2"	1-1/2"

GAS PRESSURE REGULATOR SCHEDULE FOR 5 PSI SYSTEMS							
MARK	MANUFACTURER	VALVE TYPE	MAX. BODY SIZE (IN)	MAX. FLOW RATE (GPH)	INLET PRESSURE (PSI)	OUTLET PRESSURE (INCHES WATER COLUMN)	NOTES
GR1	GR1	GR1	3/4"	948	1.5	7"	A, B, D, E, F, G, H, & I

NOTES:

- C-1: 1/2" NPT DIRECT CONNECTION WITH INTERNAL VENT LIMITER
- D-1: 1/2" NPT WATER COLUMN MOUNT
- E-1: 1/2" NPT BODY, SCREWED CONNECTIONS AND OVERPRESSURE PROTECTION TO 25#
- F-1: MAXIMUM FLOW RATE SCHEDULED, MATCH BODY SIZE AND MAXIMUM FLOW RATE TO EQUIPMENT FLOW RATE. REFER TO EQUIPMENT SHOP DRAWINGS FOR EXACT LISTED TO TAG.
- G-1: LISTED TO TAG WITH CSA/UL LISTING STAMP ON REGULATOR BODY.
- H-1: GAS PRESSURE REGULATOR INLET PRESSURE + OPERATING PRESSURE - DESIGN FRICTION LOSS
- I-1: 8 PSI MAXIMUM INLET PRESSURE & 1.5 PSI MINIMUM INLET PRESSURE
- J-1: PROVIDE WITH SEPARATE OVERPRESSURE PROTECTION DEVICE (OPD)
- K-1: PROVIDE EXTERNAL VENT LINE (WHERE APPROVED BY LOCAL AUTHORITIES) FOR INDOOR INSTALLATION AND INST. PER SPECIFICATIONS.
- L-1: INSTALL OUTDOORS PER SPECIFICATIONS.

PUMP SCHEDULE										
DESIGNATION	SERVICE	LOCATION	MANUFACTURER	MODEL	TYPE	GPM	HEAD (FT)	ELECTRICAL	PH	RPM
P-1	HW RECIRC.	STAGING	BELL & GOSSETT	NBF-12FLW	INLINE	2	10	1/20	115	1 80

WATER HEATER SCHEDULE									
DESIGNATION	TYPE	LOCATION	MANUFACTURER	MODEL	STORAGE CAPACITY	GAS INPUT (MBH)	RECOVERY @ 100 DEG F RISE	NOTES	A, B, C, D
HW-1	STORAGE TANK	STAGING	A.O. SMITH	BTR-197	100 GALLON	195	150	PH	A, B, C, D

NOTES:

- SET THERMOSTAT TO AN OUTPUT TEMPERATURE OF 140 DEGS F.
- ALTERNATE MANUFACTURERS BRADFORD-WHITE, LOGAN, STARBUCK, OR WHOLESALE AVAILABLE TO BE OF GREATER OR EQUAL QUALITY. PROVIDE SUBMITTALS TO ULTA AND APPROVED.
- SEE DETAIL.
- PROVIDE LOW NOX WHERE REQUIRED BY LOCAL AUTHORITIES.

EXPANSION TANK SCHEDULE							
DESIGNATION	LOCATION	SERVICE	CAPACITY (GALLONS)	WORKING PRESSURE (PSI)	SIZE (APPROX)	MANUFACTURER	MODEL
ET-1	STAGING	HW	4.4	150	1 1/2" DIA x 15"	AMTROL	S7-12

DRAIN SCHEDULE						
DESIGNATION	TYPE	SIZE	MFR	MODEL NO.	TOP FINISH	REMARKS
FD-1	FLOOR DRAIN	4"	SMITH	2010-A	NICKEL BRONZE	VANDAL-PROOF SCREWS GALVANIZED BODY. 4" DEEP SEAL "P" TRAP WITH TRAP PRIMER
FD-2	FLOOR DRAIN	4"	SMITH	2380-P050	GALVANIZED CAST IRON	GALVANIZED BODY. 4" DEEP SEAL "P" TRAP WITH TRAP PRIMER
FCO-1	FLOOR CLEANOUT	SEE PLANS	SMITH	4200	NICKEL BRONZE	VANDAL-PROOF SCREWS GALVANIZED BODY

PLUMBING ABBREVIATIONS:	
AFB	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BTB	BELOW FINISHED GRADE
BFB	BELOW FINISHED GRADE
DN	DOWN
ETR	EXISTING TO REMAIN
FTA	FROM FLOOR ABOVE
FFB	FROM FLOOR BELOW
IE	INVERT ELEVATION
IP	TRAP PRIMER LINE
IFA	TO FLOOR ABOVE
IFB	TO FLOOR BELOW
THR	THRU ROOF
VTR	VENT THRU ROOF
WC	WATER COLUMN

- ### FIRE PROTECTION GENERAL NOTES:
- PROVIDE ALTERNATIONS AND MODIFICATIONS AS NECESSARY TO FURNISH AND INSTALL COMPLETE FIRE PROTECTION SYSTEM PER NFPA #13. THE SYSTEM SHALL COMPLY WITH ALL REQUIREMENTS OF LOCAL, STATE AND FEDERAL AUTHORITIES AND LANDLORD'S INSURING AGENCY.
 - ALL WORK SHALL BE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE LOCAL FIRE PROTECTION DISTRICT AND WATER DEPARTMENT.
 - ALL AUTHORITIES HAVING JURISDICTION SHALL BE NOTIFIED AT LEAST THREE (3) WORKING DAYS PRIOR TO COMMENCEMENT OF WORK.
 - PROVIDE AN AUTOMATIC WET PIPE SPRINKLER SYSTEM INCLUDING PIPING, HANGERS, VALVES, ALARMS, SUPPORTS AND SPRINKLER HEADS, NECESSARY AND AS REQUIRED FOR PROTECTION OF LOCAL, STATE AND FEDERAL AUTHORITIES AND LANDLORD'S INSURING AGENCY.
 - WORK SHALL BE PERFORMED BY AN APPROVED AUTOMATIC FIRE PROTECTION SPRINKLER CONTRACTOR. SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED BY A REGISTERED PROFESSIONAL ENGINEER. APPROVED CONTRACTOR AND THE CONTRACTOR'S REGISTERED ENGINEER SHALL BE LICENSED WITH THE PROPER AUTHORITIES FOR THE LOCATION OF THIS PROJECT.
 - PROVIDE A COMPLETE WET PIPE SPRINKLER SYSTEM FOR ALL AREAS, UNLESS OTHERWISE INDICATED OR REQUIRED FOR FREEZE PROTECTION.
 - SPECIAL CONSIDERATION SHALL BE GIVEN TO AREAS THROUGHOUT THE BUILDING SUCH AS DROPPED SOFFITS, LIGHTING SOFFITS AND RECESSED STORAGE RACKS THAT NECESSITATE ADDITIONAL SPRINKLER HEADS.
 - RUN PIPING HORIZONTALLY AND AT RIGHT ANGLES TO WALLS AND CEILINGS. CENTER SPRINKLER HEADS IN BOTH HORIZONTAL DIRECTION WITH RESPECT TO CEILING COMPONENTS, SUCH AS CEILING GRID, LIGHT FIXTURES, HVAC DIFFUSERS AND SPEAKERS OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
 - FIRE PROTECTION SYSTEM SHOP DRAWINGS SHALL INCLUDE SEPARATE AND COMPLETE REFLECTED CEILING PLANS INDICATING LOCATION OF EACH SPRINKLER HEAD AS WELL AS PIPING LAYOUTS.
 - PROVIDE MAIN DRAINS AND AUXILIARY DRAINS WHERE NECESSARY.
 - PROVIDE TEST CONNECTIONS AT MOST REMOTE POINT OF MAIN PORTION OF EACH SPRINKLER SYSTEM.
 - LAYOUT THE SPRINKLER PIPING SO THAT THERE IS A MINIMUM SEPARATION OF 12" BETWEEN THE CEILING HEIGHT AND THE BOTTOM OF THE SPRINKLER PIPE OR ROUTE PIPING AROUND LIGHT FIXTURES TO AVOID CONTACTS.
 - FIRE PROTECTION CONTRACTOR SHALL FIELD VERIFY EXACT REQUIREMENTS FOR BUILDING REGARDING PIPE SIZES, ACQUATE PRESSURES, SERVICE LOCATIONS, ZONING AND SUPPLY TO SHOP DRAWINGS TO THE AUTHORITIES FOR APPROVAL PRIOR TO FABRICATION OR INSTALLATION OF FIRE PROTECTION WATER SERVICE AND SYSTEMS.
 - AUTOMATIC SPRINKLERS SHALL BE OF THE OPERATING TEMPERATURE AS SPECIFIED BY LOCATION WITH SPECIAL REGARD FOR HEATING UNITS. SPRINKLERS SHALL BE POLYAROUND, PROVIDE PROPER CLEARANCES, AND AVOID CONTACT WITH BUILDING MEMBERS AND SYSTEMS.
 - ALL PIPING SHALL BE ROUTED IN THE SUSPENDED CEILING UNLESS OTHERWISE INDICATED AND BEING FIXED FURNISHING UNITS. SPRINKLERS SHALL BE POLYAROUND, PROVIDE PROPER CLEARANCES, AND AVOID CONTACT WITH BUILDING MEMBERS AND SYSTEMS.
 - REFER TO ARCHITECTURAL DRAWINGS OR CONSULT ARCHITECT FOR EXACT LOCATION OF FIXTURES, EQUIPMENT, ETC. FINAL FIELD ELEVATIONS PRIOR TO ANY INSTALLATION WORK.
 - EXISTING CONDITIONS THAT REQUIRE RELOCATION SHALL BE SERVED EXISTING FIXTURES OR EQUIPMENT OR RELOCATION MUST BE MAIN ACTIVELY INDICATED. PIPING EXPOSED TO VIEW SHALL BE PROTECTED WITH A TEST PLUG THAT IS SECURELY LOCKED IN PLACE UNTIL FINAL FINISHED CONNECTIONS ARE INSTALLED.
 - CONTRACTOR SHALL VERIFY THE SITE AND DOCUMENT EXISTING CONDITIONS WITHIN THE LIMITED DEMOLITION PERIOD TO START OF ANY WORK. FORWARD TO ARCHITECT/ENGINEER FOR REVIEW. ONE (1) COPY OF EQUIPMENT AND SYSTEMS BEING REMOVED, DEMOLITION WORK AND NEW INSTALLATION WORK. LIMITS OF DEMOLITION AREA SHALL BE INDICATED ON DRAWINGS PREPARED BY THE ARCHITECTURAL CONSULTANT.
 - CAREFULLY REVIEW THE INTERIOR DESIGN, ARCHITECTURAL, STRUCTURAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL ITEMS TO BE REMOVED, RELOCATED, OR ACCOMMODATED IN ORDER TO PROCEED WITH THIS WORK.
 - EXISTING OR EXISTING EQUIPMENT SHALL NOT BE LOCATED ABOVE INACCESSIBLE CEILINGS. PROVIDE LOCATION OR RELOCATION OF EQUIPMENT TO AREAS ABOVE ACCESSIBLE CEILINGS AND RECONNECT EQUIPMENT TO SYSTEMS.
 - DRAINING AND REFILLING OF SYSTEMS AS REQUIRED FOR DEMOLITION AND/OR NEW INSTALLATIONS WORK SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
 - REROUTE FIRE SPRINKLER PIPING IF REQUIRED FOR THE NEW SUPPLY AND RETURN AIR DUCTWORK LAYOUT.
 - ALL SPRINKLERS IN CEILINGS SHALL BE CONCEALED TYPE WITH WHITE COVER PLATE TO MATCH COLOR OF CEILING FINISH. OPEN CEILING AREA SHALL BE COVERED WITH UPRIGHT TYPE. EXACT LOCATIONS OF EACH AND EVERY SPRINKLER WILL BE APPROVED BY ARCHITECT AND OWNER. SUBMIT PRODUCTS AND SPRINKLER LOCATIONS TO ARCHITECT AND OWNER FOR APPROVAL. PRIOR TO SHOP DRAWING PROCESS.
 - CONTRACTOR TO PROVIDE BID ALTERNATE FOR ANY MODIFICATIONS NEEDED, DUE TO LOW SPRINKLER BRANCH LINES/STRUCTURE HEIGHTS. MODIFICATIONS TO SPRINKLER BRANCH LINES NEED TO BE TIGHT TO STRUCTURE AS POSSIBLE.
 - PROVIDED MEANS FURNISH AND INSTALL.

- ### PLUMBING LEGEND:
- | | | | |
|---------|--|---------|------------------------------------|
| ---○--- | DOMESTIC COLD WATER (CW) | ---○--- | GAS PRESSURE REGULATOR |
| ---○--- | DOMESTIC HOT WATER (HW) | ---○--- | GAS COCK |
| ---○--- | HOT WATER RECIRC (HWR) | ---○--- | UNION |
| ---○--- | PLUMBING WET ABOVE FLR | ---○--- | TRAP PRIMER WITH DISTRIBUTION UNIT |
| ---○--- | PLUMBING WET BELOW FLR | ---○--- | WALL HYDRANT (WH) |
| ---○--- | SANITARY ABOVE FLR | ---○--- | SOFT BIBB (HB) |
| ---○--- | SANITARY BELOW FLR | ---○--- | CAP |
| ---○--- | WASTE ABOVE FLR | ---○--- | CLEANOUT (CO) |
| ---○--- | WASTE BELOW FLR | ---○--- | WALL CLEANOUT (WCO) |
| ---○--- | CONDENSATE WASTE & VENT | ---○--- | P-TRAP |
| ---○--- | COMBINATION DRAIN | ---○--- | FLOOR CLEANOUT (FCO) |
| ---○--- | INDIRECT DRAIN | ---○--- | EXTERIOR CLEANOUT (ECO) |
| ---○--- | NATURAL GAS | ---○--- | FLOOR DRAIN (FD) SIZE & TYPE |
| ---○--- | FIRE PROTECTION | ---○--- | ISOMETRIC FLOOR PENETRATION |
| ---○--- | FLOW UP & DN IN PIPING | ---○--- | CONNECT TO EXISTING |
| ---○--- | TEE UP & DN IN PIPING | ---○--- | PLUMBING PLAN NOTE CALLOUT |
| ---○--- | BALL VALVE | ---○--- | PLUMBING EQUIPMENT DESIGNATION |
| ---○--- | SHUTOFF VALVE | ---○--- | 1 |
| ---○--- | BALANCING VALVE | ---○--- | MT |
| ---○--- | CHECK VALVE | ---○--- | DETAIL REFERENCE |
| ---○--- | PRESSURE REDUCING VALVE | ---○--- | MECHANICAL EQUIPMENT DESIGNATION |
| ---○--- | STRAINER | ---○--- | 1 |
| ---○--- | RECIRCULATION PUMP | ---○--- | 1 |
| ---○--- | WATER HAMMER ARRESTER WITH PSI SIZES: A, B, C, D, AND E (SEE "A" UNLESS NOTED OTHERWISE) | | |

- ### PLUMBING GENERAL NOTES:
- ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS OF LOCAL AUTHORITIES.
 - ALL AUTHORITIES HAVING JURISDICTION SHALL BE NOTIFIED AT LEAST THREE WORKING DAYS PRIOR TO COMMENCEMENT OF WORK.
 - ALL PIPING SHALL BE ROUTED IN THE SUSPENDED CEILING SPACE UNLESS OTHERWISE INDICATED. ALL PIPING EXPOSED TO VIEW SHALL BE ROUTED AS HIGH AS POSSIBLE AND TIGHT TO THE UNDERSIDE OF THE STRUCTURAL STEEL.
 - EXPOSED PIPING IN FINISHED AREAS SHALL BE CHROME PLATED WITH CHROME PLATED FINISH ON PIPE ENTRY TO FINISHED AREA.
 - SLEEVE OR CORE-DRILL FLOOR SLABS, WALLS, ETC. AS REQUIRED FOR PIPING AND FIRE-STOP OPENING AROUND PIPE. VERIFY LOCATION OF STRUCTURAL BEAMS, JOISTS, ETC. BEFORE DRILLING.
 - ALL OPENINGS IN DRAMAGE AND/OR VENT SYSTEMS AS A RESULT OF INSTALLATION ROUTING SHALL BE PROTECTED WITH A TEST PLUG THAT IS SECURELY LOCKED IN PLACE UNTIL FINAL FINISHED CONNECTIONS ARE INSTALLED.
 - ALL PIPING SHALL BE CONCEALED IN WALLS AND BEHIND FIXED FURNISHINGS UNLESS OTHERWISE INDICATED.
 - WHEREVER FOUNDATION WALLS, OUTSIDE WALLS, ROOF, ETC. ARE PENETRATED FOR INSTALLATION OF SYSTEMS, THEY SHALL BE PATCHED TO MATCH EXISTING CONSTRUCTION AND SEALED WEATHER TIGHT. WORK SHALL BE PERFORMED BY CRAFTSMEN SKILLED IN THEIR RESPECTIVE TRADES.
 - ALL PIPING SHALL RUN PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. ALL PIPING SHALL BE CONCEALED EXCEPT IN UNFINISHED SPACES. FINISHES ARE REQUIRED TO MEET ALL CONSTRUCTION CONDITIONS AND TO ALLOW FOR INSTALLATION OF OTHER WORK INCLUDING DUCTS AND ELECTRICAL CONDUIT. ALL CONNECTIONS BETWEEN FIBROUS DRIP AND CONDENSATE PIPING SHALL BE MADE WITH COPPER TUBING.
 - PROVIDE ALL FITTINGS, ACCESSORIES, OR FLS AND SHALL BE NECESSARY TO FACILITATE THE PLUMBING SYSTEM'S FUNCTIONING AS INTENDED BY THE DESIGN AND THE EQUIPMENT INDICATED.
 - PROVIDE A COMPLETE SYSTEM WITH TRAP PRIMER (OR TRAP COCK IF ALLOWED BY CODE) VENT AND DRAIN PIPING BY MANUFACTURER. INSTALL STOP VALVE IN AN ACCESSIBLE LOCATION IN THE WATER SUPPLY TO EACH FIXTURE. CHECK EXISTING WATER PRESSURE AND PROVIDE HOT WATER PRESSURE EXCEEDS 80 PSI.
 - INSTALL ALL HOT AND COLD WATER PIPING BOTH VERTICALLY AND HORIZONTALLY, IN CEILING, BELOW ALL HANDICAPPED FIXTURES AND CONCEALED IN WALLS COMPLETELY. PROVIDE 1" PREFORMED FIBERGLASS ASJ-VB, FLAME SPREAD 25, SMOKE DEVELOPED 50, PIPING ROUTED IN EXTERIOR WALLS SHALL BE ROUTED ON WINTER WARM SIDE OF BUILDING WALL INSULATION.
 - ACCESS PANELS SHALL BE PROVIDED WHERE CONCEALED CONTROL DEVICES, VALVES, ETC. ARE LOCATED WITHIN WALLS. WHERE ACCESS FOR ADJUSTMENT AND MAINTENANCE IS POSSIBLE THROUGH LAY-IN SUSPENDED CEILINGS, ACCESS PANELS ARE NOT REQUIRED.
 - TEST WATER SYSTEM UNDER 150 PSIG HYDROSTATIC PRESSURE, FOR FOUR (4) HOURS MINIMUM. WHEN TESTING INDICATES MATERIALS OR WORKMANSHIP IS DEFICIENT, REPLACE OR REPAIR AS NECESSARY. TEST UNITS STANDARDS ARE ACHIEVED.
 - PROVIDE A COMPLETE NATURAL GAS PIPING SYSTEM AS NOTED ON THE DRAWINGS, SHUT-OFF BY CODE. PROVIDE ALL TESTS, METERS, INSPECTIONS, HANGERS AND EQUIPMENT CONNECTIONS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM. PAINT PIPING ON ROOF WITH TWO COATS OF RUST RESISTANT OUTDOOR PAINT.
 - THE DOMESTIC WATER SYSTEM, DRAINAGE SYSTEMS, AND GAS PIPING SYSTEM SHALL BE FLUSHED AND PRESSURE TESTED. THE DOMESTIC WATER SYSTEM SHALL BE PURIFIED.
 - DRAINAGE PIPING ABOVE AND BELOW FLOOR SHALL BE SCHEDULE 40 PVC UNLESS OTHERWISE SPECIFIED. PROVIDE CAST IRON OR OTHER APPROVED MATERIAL ONLY WHEN REQUIRED BY JURISDICTION. CONTRACTOR SHALL CLEARLY IDENTIFY ALL MATERIALS USED AT THE TIME OF BID SUBMITTALS.
 - ALL FLOOR DRAINS SHALL BE CONNECTED TO THE SANITARY SEWER SYSTEM.
 - THE EXISTING CONDITIONS ARE BASED ON "AS-BUILT" DRAWINGS AND/OR LIMITED FIELD VERIFICATIONS. THE CONTRACTOR SHALL ADJUST TO ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO THE PROJECT. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ANY EXTRAS DUE TO THE CONTRACTOR'S FAILURE TO VISIT THE PROJECT SITE AND/OR PREDETERMINATION OF EXISTING CONDITIONS PRIOR TO SUBMITTING THE BID. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION.
 - THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE INCIDENTAL DEMOLITION WORK PRIOR TO BIDDING AND COMMENCEMENT OF WORK. THE CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF ALL EXISTING EQUIPMENT AS REQUIRED FOR INSTALLATION/CONSTRUCTION OF NEW WORK.
 - COORDINATE ALL SLAB PENETRATIONS WITH GENERAL CONTRACTOR PRIOR TO CONSTRUCTION. MAINTAIN A MINIMUM OF 2" CLEARANCE FROM THE EDGE OF THE SLAB OPENING TO ANY STRUCTURAL MEMBERS AND REINFORCING.
 - PIPE SIZES INDICATED ON THE PLANS ARE MINIMUM. THE CONTRACTOR SHALL PROVIDE PIPE SIZES EQUAL TO OR GREATER THAN THE SPECIFIED SIZES. THE CONTRACTOR MAY INCREASE PIPE SIZES AS REQUIRED AT NO ADDITIONAL EXPENSE TO THE PROJECT.
 - THE CONTRACTOR SHALL OBTAIN A COPY OF THE LANDLORD'S TENANT CRITERIA MANUAL PRIOR TO BIDDING. THE TENANT CRITERIA MANUAL REQUIREMENTS SHALL BE INCLUDED IN THE CONTRACTOR CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE LANDLORD REQUIREMENTS AT NO ADDITIONAL EXPENSE TO THE PROJECT.
 - PROVIDE TEMPORARY COVERS, CAPS, OR PLUGS ON SANITARY SEWER SYSTEM THROUGHOUT THE DURATION OF CONSTRUCTION. RAG WADS, DUCT TAPE, OR OTHER SIMILAR METHODS OF TEMPORARY COVERS SHALL NOT BE UTILIZED. UPON COMPLETION OF CONSTRUCTION, COMPLETELY REMOVE ANY AND ALL OBSTRUCTIONS INSIDE THE ENTIRE SYSTEM BY SNAKING, RODDING, OR JETTING THE SYSTEM IMMEDIATELY PRIOR TO PROJECT TURNOVER TO THE OWNER.
 - ALL BELOW GRADE SANITARY LINES SHALL BE A MINIMUM OF 2" OR IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.
 - ALL SANITARY TEE FITTINGS, STRAIGHT TEE FITTINGS SHALL NOT BE INSTALLED IN DRAIN, WASTE, AND VENT (DWV) SYSTEM.
 - INSTALL SANITARY PIPING 2" OR SMALLER AT A SLOPE OF 1/4" PER FOOT AND SANITARY PIPING LARGER THAN 2" AT A SLOPE OF 1/8" PER FOOT.
 - ALL PUBLIC USE LAVATORY FAUCETS SHALL HAVE AN AUTOMATIC SAFETY WATER MIXING DEVICE IN ACCORDANCE WITH ANSI/ASSE 1016 OR 1017.
 - ALL HANDICAPPED ACCESSIBLE WATER CLOSETS SHALL HAVE THE FLUSHING HANDLE ON THE WIDE SIDE OF THE HANDICAPPED ACCESSIBLE SHALL AS REQUIRED BY ADA REQUIREMENTS.
 - HARD 90 DEGREE ELBOW WILL NOT BE PERMITTED ON SANITARY LINES.
 - SUPPORT ALL PIPING AND DUCTWORK, EQUIPMENT, ETC. FROM TOP CHORD OF ROOF/FLOOR JOISTS, OR PROVIDE STRUCTURAL CALCULATIONS INDICATING BOTTOM CHORD ATTACHMENT IS ACCEPTABLE.
 - PLUMBING CONTRACTOR SHALL VERIFY EXISTING WATER PRESSURE AND PROVIDE PRESSURE REDUCING VALVE ON WATER SERVICE IF PRESSURE EXCEEDS 80 PSI.
 - PROVIDED MEANS FURNISH AND INSTALL.

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THE ABOVE DRAWINGS AND SPECIFICATIONS SHALL BE CONSIDERED TO BE THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES.

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PLUMBING SCHEDULES AND SPECIFICATIONS	
DESIGN BY	MAJ
CHECKED BY	RCB
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