PLUMBING SCOPE Ç٥ **SPECIFICATION**

GAS

WATER HEATER

SECTION SHALL INCLUDE, BUT NOT BE LIMITED TO:

A DOMESTIC HOT AND COLD WATER DISTRIBUTION SYSTEM TO SERVE ALL FIXTURES. AND EQUIPMENT.

SANITARY SOIL WASTE AND VENT AND GREASE WASTE AND VENT SYSTEMS TO SERVE ALL FIXTURES AND EQUIPMENT.

CONNECT TO EXISTING COLD WATER, SANITARY, AND GREASE WASTE MAINS.

A NATURAL GAS DISTRIBUTION SYSTEM TO SERVE ALL GAS-FUELED EQUIPMENT.

COORDINATE WITH THE LOCAL NATURAL GAS UTILITY PROVIDER TO ESTABLISH A NEW GAS SERVICE COMPLETE WITH METER AND REGULATOR SET.

ADHERE TO APPLICABLE LOCAL CODES AND REGULATIONS, WHICH INCLUDE BUT ARE NOT LIMITED TO CITY OF SUGAR LAND (2003 INTERNATIONAL PLUMBING CODE, WITH AMENDMENTS). GUARANTEE LABOR AND MATERIALS FOR ONE YEAR. DRAWINGS ARE DIAGRAMMATIC; CONFIRM DIMENSIONS AND LOCATIONS IN THE FIELD, ADVISE OF MAJOR DISCREPANCIES.

PRODUCE RECORD DRAWINGS

VALVES VALVES SHALL BE MANUFACTURED BY NIBCO, HAMMOND, POWELL, STOCKHAM, WATTS OR EQUIVALENT APPROVED BY THE ENGINEER.

CONTRACTOR SHALL OBTAIN REQUIRED PERMITS AND PAY ALL FEES

BALL VALVES SHALL HAVE CAST BRONZE BODY, BLOWOUT PROOF STEMS, FULL SIZE PORT, 316 STAINLESS STEEL TRIM, TEFLON SEAT AND SEAL AND THRUST WASHERS. VALVES 2" AND SMALLER SHALL BE NIBCO T-585-70-66 OR APPROVED EQUIVALENT. GATE VALVES SHALL CONFORM TO MSS-SP-80 FOR BRONZE AND MSS-SP-70 FOR IRON, VALVES 2" AND SMALLER SHALL BE NIBCO T-113 OR S-113 OR APPROVED EQUIVALENT.

UNIONS IN COPPER OR BRASS LINES SHALL BE BRASS, THREADED PATTERN UNIONS.

EXCAVATION

EXCAVATE 6" BELOW GRADE, FILL WITH BEDDING MATERIAL (SAND) AND TAMP WELL CUT THE BOTTOM OF THE TRENCH OR EXCAVATION TO UNIFORM GRADE. EXCAVATE TRENCHES FOR UNDERGROUND PIPING TO THE REQUIRED DEPTH.

LAY OUT ALIGNMENT OF PIPE TRENCHES TO AVOID OBSTRUCTIONS. PROVIDE ASSURANCE THAT PROPOSED ROUTE OF PIPE WILL NOT INTERFERE WITH BUILDING FOUNDATION BEFORE ANY CUTTING IS BEGUN. SHOULD INTERFERENCE BE FOUND, CONTACT THE ARCHITECT/ENGINEER BEFORE PROCEEDING.

PLUMBING PIPING HANGER SPACING PLACE BACKFILL MATERIAL IN UNIFORM LAYERS, 8" MAXIMUM LOOSE MEASURE. COMPACT TO NOT LESS THAN 95% OF MAXIMUM SOIL DENSITY AS DETERMINED BY ASTM D698 STANDARD PROCTOR. BACKFILL SHALL NOT BE PLACED UNTIL THE WORK HAS BEEN INSPECTED, TESTED AND APPROVED. USE SUITABLE FRIABLE SOILS AS BACKFILL MATERIAL. DO NOT USE PEAT, SILT, MUCK, DEBRIS OR OTHER ORGANIC MATERIALS. DEPOSIT BACKFILL IN UNIFORM LAYERS.

MAXIMUM SPACING SHALL BE 10 FOOT.

CLEANING, TESTING AND ADJUSTING

PIPING INSULATION THIS CONTRACTOR SHALL FURNISH ALL LABOR, TOOLS, INSTRUCTIONS, AND SUPERVISION REQUIRED FOR THE PERFORMANCE OF ALL TESTS, CLEANING, AND MAKING NECESSARY ADJUSTMENTS TO OPERATION OF ALL FIXTURES AND EQUIPMENT.

IMCOLOCK PIPE INSULATION MAY BE SLIPPED ONTO THE PIPE PRIOR TO CONNECTION OR APPLIED AFTER THE PIPE IS INSTALLED, AT THE CONTRACTOR'S OPTION. ALL BUTT JOINTS AND MITER JOINTS SHALL BE CLOSED USING IMCOA'S FUSE SEAL JOINING SYSTEM OR FACTORY APPROVED CONTACT ADHESIVE. IMCOLOCK PIPE INSULATION SHALL BE INSTALLED ACCORDING TO THE PROCEDURES OUTLINED BY THE MANUFACTURER. ALL COLD WATER PIPING, FITTINGS AND VALVES SHALL BE INSULATED WITH NOMINAL 1/2" WALL THICKNESS IMCOLOCK PIPE INSULATION, OR AN APPROVED EQUAL HAVING FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DENSITY OF 50 OR LESS WHEN TESTED BY ASTM E-84 METHOD.

MANUFACTURER'S RECOMMENDED PROCEDURES. SWEAT FITTINGS SHALL BE INSULATED WITH MITER CUT PIECES OF IMCOLOCK PIPE INSULATION THE SAME SIZE AS ON ADJACENT PIPING. THREADED FITTINGS SHALL BE INSULATED WITH SLEEVED FITTING COVERS FABRICATED FROM MITER CUT PIECES OF IMCOLOCK PIPE INSULATION ACCORDING TO THE MANUFACTURER'S SLEEVING SIZE RECOMMENDATIONS AND SHALL BE OVERLAPPED 2" AND SEALED TO THE ADJACENT PIPE INSULATION. ALL VALVES SHALL BE INSULATED WITH CUT PIECES OF IMCOLOCK PIPE INSULATIONS. ALL JOINTS AND MITER CUT PIECES ARE TO BE SEALED USING IMCOA'S FUSE SEAL JOINING SYSTEM OR FACTORY APPROVED CONTACT

SUPPORTING HANGERS SHALL BE DESIGNED TO RESIST COMPRESSION; SUPPORTING DEVICES SUCH AS SHORT WOOD DOWELS OR WOOD BLOCKS SHALL BE USED IN COMBINATION WITH GALVANIZED SHEET METAL HANGER SHIELDS. THE WOOD SUPPORTING DEVICES SHALL BE THE SAME THICKNESS AS THE INSULATION AND SEALED TO THE INSULATION WITH FACTORY APPROVED CONTACT ADHESIVE.

INSTALL THERMAL INSULATION ON CLEAN, DRY SURFACES AFTER ALL TESTING AND INSPECTION IS COMPLETED. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THESE SPECIFICATIONS AND WITH MANUFACTURER'S INSTRUCTIONS.

NOTES: NO. GWH GWH 1-2 380 TOTAL MBH CAPACITY (GALLONS) REQUIRED 120/1 WATER TEMP.(*F) 120° 120° MANUFACTURER MODEL NO. TAKAGI #T-M50

THERMOSTA	
ATIC	
MIXING	
VALVE	

ITEM NO.	INLET HOT WATER TEMP (*F)	INLET HOT WATER MIXED WATER FLOW (F) TEMP (F) (GPM)	MINIMUM FLOW (GPM)	DESIGN PRESS FLOW @ DES (GPM) (PSI)	MINIMUM DESIGN PRESSURE DROP VALVE (GPM) (GPM) (PSI)	VALVE	MANUFACTURER / MODEL NO.
TMV-1	140°	110°	0.5	7	4.0	ROUGH BRONZE	SYMMONS TEMPCONTROL 5-500W-ASB
·Salun							

MAKE WATER CONNECTIONS TO THERMOSTATIC MIXING VALVE(S) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. INCREASERS AND/OR VALVES AS REQUIRED.

P-TRAP:

STRAINER:

SUPPLIES:

ROUGH-IN:

REFER TO DETAIL FOR ADDDITIONAL INFORMATION. ROVIDE UNION CONNECTIONS AND OUTLET THERMOMETER UNLESS

	SHOCK	SHOCK ARRESTORS	
.D.I. SYMBOL	FIXTURE UNITS	CHAMBER LENGTH	SWEAT CONNECTION
A	1-11	9-5/8"	1/2"
В	12-32	11-3/4"	3/4"
C	33-60	14-11/18"	1"
D	61-113	12-3/8"	1"
E	114-154	15-3/8"	1"
F	155-330	17-3/8"	1"

TYPE: DESCRIPTION:

ROUGH-IN:

ABOVE SLAB INSIDE BUILDING SHALL BE NO-HUB CAST IRON SYSTEM CONFORMING TO CISPI STANDARD NO. 301-75. NEOPRENE GASKETS SHALL CONFORM TO ASTM STANDARD C564-75.

BELOW SLAB SHALL BE SCHEDULE 40 DWV POLYVINYL CHLORIDE PIPE AND FITTINGS CONFORMING TO ASTM D-1784-82 WITH SOLVENT WELDED JOINTS.

ROUGH-IN:

SK-4 - THREE COMPARTMENT SINK
FREESTANDING THREE COMPARTMENT SINK FURNISHED BY
K. E. C. AND INSTALLED BY ARCHITECTURAL DIVISION. FAUCET(S)
ALSO FURNISHED BY OWNER. ROUGH-INS, FAUCET INSTALLATION,
AND FINAL CONNECTIONS BY PLUMBING CONTRACTOR. PLUMBING
CONTRACTOR TO PROVIDE STRAINER, INDIRECT WASTE PIPING,
ESCUTCHEONS AT WALL, SUPPLIES AND STOPS, ETC. AS REQUIRED
IN ORDER TO PROPERLY INSTALL FIXTURE.
3/4" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS
FOR HEIGHT REQUIREMENTS. CONFIRM ALL DIMENSIONAL
REQUIREMENTS IN ADVANCE WITH ARCHITECT/K. E. C.

TYPE: FAUCET:

TYPE:

ABOVE GRADE SHALL BE SCHEDULE 40 BLACK STEEL, SEAMLESS, OR ELECTRIC RESISTANCE WELDED, ASTM A-53 WITH WELDED JOINTS AND STEEL FITTINGS OF THE SAME THICKNESS AS PIPE. PIPING 2 INCHES AND SMALLER MAY BE SCHEDULE 40 BLACK STEEL PIPE WITH MALLEABLE IRON 150 PSI CLASS FITTINGS ANSI B16.3, BANDED AIR TESTED, AND SCREWED JOINTS. ALL GAS PIPING AND FITTINGS OUTDOORS SHALL BE PAINTED WITH TWO COATS OF BRUSHED ON RUST PREVENTATIVE SILVER PAINT. ONE COAT OF RUST PREVENTATIVE PRIMER SHALL BE APPLIED TO THE PIPE IMMEDIATELY AFTER INSTALLATION.

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SANITARY SOIL WASTE AND VENT AND GREASE WASTE PIPING SHALL BE

SPRINKLER

STUDY THE GENERAL, STRUCTURAL, ELECTRICAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS, IN ORDER TO BECOME FAMILIAR WITH THE BUILDING AND DETAILS AS THEY APPLY TO THE WORK OF THIS SECTION. COOPERATE WITH OTHERS SO THAT THERE WILL BE NO CONFLICT OF SPACE REQUIRED. DUCTWORK AND ELECTRICAL WORK SHALL TAKE PRECEDENCE OVER OTHER WORK, EXCEPT WHERE IT IS ABSOLUTELY NECESSARY TO MAINTAIN COVERAGE PROTECTION.

SCHEDULE 40 BLACK STEEL PIPE IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA FOR APPLICABLE FIRE PROTECTION SYSTEMS. CONFORM TO ASTM A53 AND A120. PROVIDE PIPING WITH MALLEABLE IRON, CAST IRON, STEEL WELDED OR SCREWED FITTINGS. VICTAULIC GROOVED FITTINGS MAY BE USED ABOVE GRADE IN ACCESSIBLE LOCATIONS ONLY.

DESIGN DRAWINGS MUST BE SUBMITTED TO THE LOCAL FIRE DEPARTMENT JURISDICTION FOR REVIEW AND APPROVAL SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE PRIOR TO SYSTEM INSTALLATION.

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ABOVE SLAB INSIDE THE BUIL TUBE WITH WROUGHT COPPER LEAD FREE, ASTM B 32. THE	DOMESTIC WATER PIPING
ABOVE SLAB INSIDE THE BUILDING SHALL BE SEAMLESS ASTM B 88 TYPE L COPPER WAT TUBE WITH WROUGHT COPPER FITTINGS, ANSI B16.22. SOLDER MATERIAL SHALL BE 95.5 LEAD FREE, ASTM B 32. THE USE OF DRILLED-T CONNECTIONS IS NOT PERMITTED.	

TYPE M COPPER TUBING UP TO 1" ID, TYPE DWV TUBING AND COPPER FITTINGS 1-1/4" AND LARGER SIZES, AND 95-5 SOLDER JOINTS.

NATURAL GAS PIPING SHALL BE

DESIGN AND FURNISH LABOR AND MATERIALS FOR THE COMPLETE INSTALLATION OF AN AUTOMATIC WET PIPE FIRE EXTINGUISHING SPRINKLER SYSTEM WITH THE ATTENDANT ACCESSORIES FOR THE ENTIRE AREA.

THE INSTALLATION OF THE ENTIRE SPRINKLER SYSTEM SHALL COMPLY WITH ALL RULES AND REGULATIONS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, THE GOVERNING BUILDING CODE, REQUIREMENTS OF NFPA PAMPHLET 13, AND OTHER LOCAL AUTHORITIES EXERCISING JURISDICTION.

IT SHALL BE THE FIRE PROTECTION INSTALLER'S RESPONSIBILITY, PRIOR TO BID, TO VERIFY PRESSURE AT THE PROJECT SITE BY PERFORMING A FLOW TEST. DETERMINE IF THE AVAILABLE STATIC AND RESIDUAL PRESSURE WILL ADEQUATELY PROVIDE THE FIRE EXTINGUISHING SYSTEM WITH THE NECESSARY PRESSURE OR IF A FIRE PUMP, BREAK TANK AND NECESSARY APPURTENANCES ARE REQUIRED.

SYSTEM

TYPE: DESCRIPTION: TYPE: DESCRIPTION: ROUGH-IN: IMC-1 ICE MACHINE CONNECTION, WATER SUPPLY VALVED AT WALL. PROVIDE DOUBLE CHECK VALVE TYPE BACKFLOW PREVENTER AND WATER FILTER. WATTS 1/2" 007-S BACKFLOW PREVENTER AND AQUA-PURE AP510 FILTER. ROUTE BACKFLOW PREVENTER DISCHARGE TO FLOOR SINK SERVING ICE MACHINE. 3/4" COLD WATER. COORDINATE ROUGH-IN LOCATION/HEIGHT AND FINAL CONNECTION WITH EQUIPMENT BEING INSTALLED AND WITH ARCHITECTURAL DRAWINGS. SK-5 - BAR SINK PRE-FABRICATED BAR AREA SINK FURNISHED BY K. E. C. AND INSTALLED BY ARCHITECTURAL DIVISION. FAUCET(S) ALSO FURNISHED BY OWNER. ROUGH-INS, FAUCET INSTALLATION, AND FINAL CONNECTIONS BY PLUMBING CONTRACTOR. PLUMBING CONTRACTOR TO PROVIDE STRAINER, INDIRECT WASTE PIPING, ESCUTCHEONS AT WALL, SUPPLIES AND STOPS, ETC. AS REQUIRED IN ORDER TO PROPERLY INSTALL FIXTURE. 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS. CONFIRM ALL DIMENSIONAL REQUIREMENTS IN ADVANCE WITH ARCHITECT/K. E. C. CARRIER: SUPPLIES: ROUGH-IN: TYPE: GENERAL NOTES:

SPECIFICATION TOILET ROOMS TOILET ROOMS FLOOR DRAIN, BOTTOM OUTLET CAST IRON BODY, ADJUSTABLE 6" FLOOR DRAIN, BOTTOM OUTLET CAST IRON BODY, ADJUSTABLE 6" DIAMETER NICKEL BRONZE STRAINER WITH VANDAL PROOF SCREWS. PROVIDE CLAMPING DEVICE FOR DRAINS IN MEMBRANE FLOOR AREAS. MI-FAB F1100-1-6. PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR DRAIN BY SIZE, MODEL, AND MANUFACTURER. REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTURAL DRAWINGS / FLOOR CONSTRUCTION.

PLUMBING FIXTURE

ROUGH-IN:	SIJPPI IFS:	SEAT:		DESCRIPTION:	TVDE.
4" WASTE, 2" VENT, 1" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.	SUSTAINING CHECK HINGES. CHURCH 9500SSC.	AMERICAN STANDARD MADERA ELONGATED TOILET 2234.015.	ELONGATED CLOSET BOWL WITH BOLT COVERS. FLUSH VALVE WITH SENSOR	WATER CLOSET, FLOOR MOUNTED 10" ROUGH-IN, WHITE VITREOUS CHINA. 1.6 GALLON PER FLUSH SIPHON JET ACTION. ONE-PIECE	
ROUGH-IN:		TRAP SEAL:		SERVICE: DESCRIPTION	TYPE:

TYPE:
DESCRIPTION:

WATER CLOSET, FLOOR MOUNTED 10" ROUGH-IN, WHITE VITREOUS CHINA, 1.6 GALLON PER FLUSH SIPHON JET ACTION, ONE-PIECE 16-1/2" H ELONGATED CLOSET BOWL WITH BOLT COVERS. FLUSH VALVE WITH SENSOR LOCATED ON LEFT OR ON RIGHT SIDE IN ORDER TO MEET T.A.S. REQUIREMENT THAT FLUSH CONTROLS BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREA. AMERICAN STANDARD MADERA ELONGATED TOILET 2305.100. ELONGATED OPEN FRONT WHITE PLASTIC SEAT WITH SELFSUSTAINING CHECK HINGES. CHURCH 9500SSC.

ZURN ZR6000AX-WS1 BATTERY POWERED 1.6 GPF FLUSH VALVE. 4" WASTE, 2" VENT, 1" COLD WATER. REFER TO ARCHITECTURAL DRAWNINGS FOR HEIGHT REQUIREMENTS.

TYPE: SERVICE: DESCRIPTION:

VALVE DISCHARGE / WALK-IN COOLER CONDENSATE
OR DRAIN, BOTTOM OUTLET CAST IRON BODY, ADJUSTABLE 5"
METER NICKEL BRONZE STRAINER WITH 4" ROUND FUNNEL
EMBLY AND VANDAL PROOF SCREWS. PROVIDE CLAMPING
ICE FOR DRAINS IN MEMBRANE FLOOR AREAS. MIFAB F1100-EF-

11-30-10

/2010

ROUGH-IN:

PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR DRAIN BY SIZE, MODEL, AND MANUFACTURER.

MANUFACTURER.

REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTURAL DRAWINGS, EQUIPMENT PLACEMENT, AND DOOR SWING CLEARANCES.

TRAP SEAL:

L-1 - TOILET ROOMS (T.A.S. COMPLIANT FOR ADULTS)
PRE-FABRICATED COUNTERTOP LAVATORY TO BE FURNISHED AND
INSTALLED BY GENERAL CONTRACTOR.
LAVATORY SET TO BE PROVIDED WITH THREE (3) SETS OF FAUCETS.
CHROME PLATED BRASS DECK MOUNTED BATTERY POWERED
LAVATORY FITTING WITH 6-7/16" SPOUT, CP-4 COVER PLATE,
TEMPERATURE MIXING VALVE, AND VANDAL RESISTANT 2.2 GPM
AERATOR. ZURN Z6912-C-CP4-MV.
CHROME PLATED BRASS GRID STRAINER WITH 1-1/4" 17 GAUGE
TAILPIECE WITH LOCK NUT. MCGUIRE 155A.
1-1/4" 17 GAUGE CHROME PLATED HEAVY CAST BRASS TRAP WITH
CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE.
MCGUIRE 8872.
1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVES
WITH ESCUTCHEONS AND 3/8" COMPRESSION CHROME PLATED
FLEXIBLE RISERS. MCGUIRE 2165LK.
2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO
ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

ROUGH-IN:

TRAP SEAL:

KITCHEN AREA CLEANUP
KITCHEN AREA CLEANUP
FLOOR DRAIN, BOTTOM OUTLET CAST IRON BODY, 8" DIAMETER
FLOOR DRAIN, BOTTOM OUTLET CAST IRON BODY, 8" DIAMETER
NICKEL BRONZE STRAINER AND RIM, ANCHOR FLANGE, 6" DEEP
SUMP WITH A.R.E. INTERIOR, SEDIMENT BUCKET. PROVIDE
CLAMPING DEVICE FOR DRAINS IN MEMBRANE FLOOR AREAS.
MIFAB FS1750-FL-1-5.
PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO
MATCH EACH FLOOR DRAIN BY SIZE, MODEL, AND
MANUFACTURER.
REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION
AND INSTALLATION WITH ARCHITECTURAL DRAWINGS AND

TYPE:
SERVICE:
DESCRIPTION:

TYPE:
DESCRIPTION:

FAUCET:

SK-1 - KITCHEN HAND WASH
WALL HUNG LAVATORY AND FAUCET FURNISHED BY OWNER.
ROUGH-INS, FIXTURE INSTALLATION, AND FINAL CONNECTIONS BY
PLUMBING CONTRACTOR. PLUMBING CONTRACTOR TO PROVIDE
STRAINER, P-TRAP, TRAP ARM, ESCUTCHEONS AT WALL, SUPPLIES
AND STOPS, FIXTURE SUPPORTS, ETC. AS REQUIRED IN ORDER TO
PROPERLY INSTALL FIXTURE.
2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO
ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS. TYPE: SERVICE: DESCRIPTION: ROUGH-IN: TRAP SEAL:

KITCHEN INDIRECT WASTE

KITCHEN INDIRECT WASTE

FLOOR SINK, BOTTOM OUTLET CAST IRON BODY, 12" SQUARE
FLOOR SINK, BOTTOM OUTLET CAST IRON BODY, 12" SQUARE
FLOOR SINK, BOTTOM OUTLET CAST IRON BODY, 12" SQUARE
NICKEL BRONZE FULL GRATE AND RIM, ANCHOR FLANGE, 8" DEEP
SUMP WITH A.R.E. INTERIOR, ALUMINUM DOME BOTTOM STRAINER.
PROVIDE CLAMPING DEVICE FOR DRAINS IN MEMBRANE FLOOR
AREAS. MIFAB FS1730-FL-1.
PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO
MATCH EACH FLOOR SINK BY SIZE, MODEL, AND MANUFACTURER.
REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION
WITH ARCHITECTURAL DRAWINGS AND EQUIPMENT PLACEMENT.
FIELD CUT GRATES PER OWNER'S INSTRUCTIONS IN ORDER TO
PROPERLY SERVE EQUIPMENT.

SK-2 - KITCHEN SINK
SINGLE COMPARTMENT SINK, INTEGRAL TO PRE-FABRICATED
STAINLESS STEEL TABLE TOP, FURNISHED BY K. E. C.
AND INSTALLED BY ARCHITECTURAL DIVISION. FAUCET
ALSO FURNISHED BY OWNER. ROUGH-INS, FAUCET INSTALLATION,
AND FINAL CONNECTIONS BY PLUMBING CONTRACTOR. PLUMBING
CONTRACTOR TO PROVIDE STRAINER, INDIRECT WASTE PIPING,
ESCUTCHEONS AT WALL, SUPPLIES AND STOPS, ETC. AS REQUIRED
IN ORDER TO PROPERLY INSTALL FIXTURE.

1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS
FOR HEIGHT REQUIREMENTS. CONFIRM ALL DIMENSIONAL
REQUIREMENTS IN ADVANCE WITH ARCHITECT/K. E. C..

ROUGH-IN:

TYPE: DESCRIPTION:

SK-3 - PRE-RINSE SINK
SINGLE COMPARTMENT SINK, INTEGRAL TO PRE-FABRICATED
STAINLESS STEEL DISHWASH TABLE TOP, FURNISHED BY K. E. C.
AND INSTALLED BY ARCHITECTURAL DIVISION. PRE-RINSE FAUCET
ALSO FURNISHED BY OWNER. ROUGH-INS, FAUCET INSTALLATION,
AND FINAL CONNECTIONS BY PLUMBING CONTRACTOR. PLUMBING
CONTRACTOR TO PROVIDE STRAINER, INDIRECT WASTE PIPING,
ESCUTCHEONS AT WALL, SUPPLIES AND STOPS, ETC. AS REQUIRED
IN ORDER TO PROPERLY INSTALL FIXTURE.
3/4" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS
FOR HEIGHT REQUIREMENTS. CONFIRM ALL DIMENSIONAL
REQUIREMENTS IN ADVANCE WITH ARCHITECT/K. E. C. FCO
FLOOR CLEANOUT, CAST IRON BODY WITH SECONDARY O-RING
FLOOR CLEANOUT, CAST IRON BODY WITH SECONDARY O-RING
TEST SEAL AND ADJUSTABLE COMBINED ACCESS COVER/PLUG TOP
ASSEMBLY WITH PRIMARY GASKET SEAL, AND ROUND SCORIATED
NICKEL BRONZE COVER. MIFAB C1100-R-1. FOR CARPETED FLOORS
PROVIDE MIFAB C1100-RC-1. WCO
WALL CLEANOUT. CAST IRON CLEANOUT FERRULE WITH BRONZE
RAISED HEAD PLUG AND ROUND STAINLESS STEEL COVER PLATE
WITH CENTER SECURING SCREW. MIFAB C1440-RD6. PROVIDE MIFAB
C1460 CAST IRON CLEANOUT TEE IN LIEU OF FERRULE AS REQUIRED
FOR WALL CONSTRUCTION.

ROUGH-IN:

DESCRIPTION: ECO
EXTERIOR CLEANOUT: CAST IRON BODY WITH GASKET
SEAL, ABS PLUG AND HEAVY DUTY CAST IRON SERRATED COVER WITH
SQUARE OR DIAMOND PATTERN. IF LOCATED IN ASPHALT OR DIRT
PROVIDE 18" X 18" X 18" CONCRETE SLAB.
FIXTURE: SMITH 4220-U TMV
THERMOSTATIC MIXING VALVE. SCHEDULED ON DRAWINGS.

CONSULTANTS

TARE

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HOLSTE & ASSOCIATES MEP Engineers

ROUGH-IN: MS-1
MOP SINK BASIN, 24" X 24" X 12" HIGH, PRECAST
TERRAZZO WITH 6" DROPPED FRONT, STAINLESS STEEL THRESHOLD
CAP, AND GRID STRAINER DRAIN. PROVIDE STAINLESS STEEL WALL
GUARDS IN QUANITITY AS REQUIRED TO PROTECT ADJACENT
WALLS. PROVIDE MOP HANGER AND 36" HOSE WITH WALL HANGER.
ACORN TNC-24 WITH KWGX-24", KMH, AND KH36.
CHROME PLATED BRASS WALL MOUNTED FITTING WITH
ADJUSTABLE SUPPLY ARMS, VACUUM BREAKER SPOUT WITH PAIL
HOOK AND WALL BRACE, 2-1/2" INDEXED LEVER HANDLES ON 8"
CENTERS. QUARTER TURN CARTRIDGES, 3/4" MALE HOSE THREAD
OULET. CHICAGO 897-CP.
3" WASTE, 2" VENT, 1/2" HOT AND COLD WATER.

DESCRIPTION: U-1 (T.A.S. COMPLIANT FOR ADULTS)
URINAL, WALL HUNG, WHITE VITREOUS CHINA 1.0 GALLON PER FLUSH.
AMERICAN STANDARD WASHBROOK 6501.010.
PROVIDE ZURN WALL CARRIER FOR FIXTURE SUPPORT.
ZURN ZR6003AV-WS1 BATTERY POWERED 1.0 GPF FLUSH VALVE.
2" WASTE, 2" VENT, 3/4" COLD WATER. REFER TO ARCHITECTURAL
DRAWINGS FOR HEIGHT REQUIREMENTS.

ALL LAVATORIES AND SINKS SHALL BE SUPPLIED WITH HOT AND COLD WATER TO FAUCETS AS INDICATED ON PLANS AND FIXTURE SCHEDULE. PROVIDE CHROME PLATED BRASS SUPPLY STOPS WITH LOOSE KEYS AND WALL ESCUTCHEONS. PROVIDE CHROME PLATED FLEXIBLE RISERS OF SIZE REQUIRED TO PROPERLY CONNECT FIXTURES. PROVIDE 17 GAUGE CHROME PLATED CAST BRASS PTRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON. REFER TO FIXTURE SCHEDULE FOR MINIMUM SIZES OF PLUMBING FIXTURE ROUGH-INS.

PROVIDE MOLDED CLOSED CELL ANTI-MICROBIAL VINYL INSULATION KITS (BY MCGUIRE OR TRUEBRO) AT ALL LAVATORIES AND SINKS REQUIRED TO BE T.A.S. ACCESSIBLE. ALL SUCH FIXTURES AND FINAL INSTALLATIONS SHALL COMPLY WITH THE STATE ACCESSIBILITY STANDARDS REQUIREMENTS. INSERT TRAP GUARDS AFTER FINAL RODDING OF DRAINS. INSTALL TRAP GUARD WITH CLEAR SILICONE CAULK FOR GAS-TIGHT SEAL. FOR DRAIN RODDING AFTER INSTALLATION, INSERT SEWER TAPE THROUGH LIGHTLY GREASED 1-1/2" PVC PIPE TO PROTECT TRAP GUARD.

GUADALUPAN

GUADALUPANA RESTAURANT

PROJECT NAME

20 WATERWAY THE WOODLANDS, TEXAS

PROJECT ADDRESS

SHEET NAME

PROJECT NUMBER

Holste & Associates, Inc. Consulting Engineers - Texas Reg. F-5443 6671 Southwest Frwy., Suite 850 Houston, Texas 77074 (713) 995-1351