

ABBREVIATION	DESCRIPTION
ADA	AMERICAN DISABILITIES ACT
A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
B.F.F.	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BNV	BUTTERFLY INDICATING VALVE
BLDG	BUILDING
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
C.E.	CIVIL ENGINEER
CONT	CONTINUED
COP	CLEANOUT PLUG
CPVC	CHLORINATED POLYVINYL CHLORIDE
CV	CHECK VALVE
CW	COLD WATER
D.F.U.	DRAINAGE FIXTURE UNITS
DA	DIAMETER
DN	DOWN
DWG	DRAWING
EA	EACH
E.C.	ELECTRICAL CONTRACTOR
EMH	ELECTRIC WATER HEATER
EX	EXISTING
FCD	FLOOR CLEANOUT
FD	FLOOR DRAIN
FDV	FLOOR DRAIN WITH FUNNEL
FDV-R	FLOOR DRAIN WITH ROUND FUNNEL
F.F.	FINISHED FLOOR
F.F.E.	FINISHED FLOOR ELEVATION
FLR	FLOOR
F.P.C.	FIRE PROTECTION CONTRACTOR
FS	FLOOR SINK
FSB	FLOOR SINK WITH SEDIMENT BUCKET
FSH	FLOOR SINK WITH HALF GRATE
FSQ	FLOOR SINK WITH THREE-QUARTER GRATE
FT	FEET
F.U.	FIXTURE UNITS
GAL	GALLONS
G.C.	GENERAL CONTRACTOR
GPF	GALLONS PER FLUSH
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GWH	GAS WATER HEATER
HD	HUB DRAIN
HP	HORSEPOWER
HR	HOUR
HW	HOT WATER
HWR	HOT WATER RECIRCULATION
KW	KILOWATTS
MAX.	MAXIMUM
MBTUH	THOUSANDS OF BTU PER HOUR
M.C.	MECHANICAL CONTRACTOR
MIN.	MINIMUM
MISC.	MISCELLANEOUS
NC	NORMALLY CLOSED
N.I.C.	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
P.C.	PLUMBING CONTRACTOR
P.R.A.	PROJECTED ROOF AREA
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
RAD.	RADIUS
RPBFP	REDUCED PRESSURE BACKFLOW PREVENTER
RL	RAINWATER LEADER
S.C.	SITE CONTRACTOR
SF	SQUARE FEET
SS	SANITARY SEWER STACK
TB	THRUST BLOCK
TD	TRENCH DRAIN
TP	TRAP PRIMER
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
V	VENT
VB	VACUUM BREAKER
V.I.F.	VERIFY IN FIELD
VS	VENT STACK
VTR	VENT THROUGH ROOF
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WS	WASTE STACK
YCO	YARD CLEANOUT
Ø	DIAMETER

SYMBOL	DESCRIPTION
	AIR ADMITTING VALVE IN BOX
	AIR ADMITTING VALVE
	BALANCING VALVE
	BALL VALVE
	VALVE IN UNDERGROUND BOX
	BACKWATER VALVE
	BACKWATER VALVE BELOW GRADE WITH EXTENSION
	BACKWATER VALVE IN UNDERGROUND BOX
	BUTTERFLY VALVE
	CHECK VALVE
	COMPRESSED AIR CONNECTION
	GAS VALVE
	GLOBE VALVE
	MODULATING VALVE
	PRESSURE RELIEF VALVE
	RELIEF VALVE
	SOLENOID VALVE
	THERMOSTATIC MIXING VALVE
	GATE VALVE
	SUPPLY VALVE
	WATER METER
	GAS METER
	REDUCED PRESSURE BACKFLOW PREVENTER
	CLOTHES WASHER CONNECTION
	FLOOR CLEANOUT
	WALL CLEANOUT
	YARD CLEANOUT
	FLOOR DRAIN
	FLOOR DRAIN WITH FUNNEL
	FLOOR DRAIN WITH ROUND FUNNEL
	FLOOR SINK WITH FULL GRATE
	FLOOR SINK WITH HALF GRATE
	FLOOR SINK WITH THREE-QUARTER GRATE
	HUB DRAIN
	ROOF DRAIN
	ROOF OVERFLOW DRAIN
	TRENCH DRAIN
	HOSE BIBB
	POINT OF NEW CONNECTION
	VENT THROUGH ROOF
	RECIRCULATION PUMP
	WATER HAMMER ARRESTOR
	SPLASH BLOCK
	TRAP PRIMER
	"P" TRAP
	WALL HYDRANT
	ATMOSPHERIC VACUUM BREAKER
	PIPE DOWN
	PIPE UP
	CAPPED PIPE
	CLEANOUT PLUG
	UNION
	STRAINER
	DIRECTION OF FLOW
	PLUMBING FIXTURE
	ADA COMPLIANT PLUMBING FIXTURE
	EXISTING FIXTURE PROVIDED BY OTHERS
	FIXTURE PROVIDED BY PLUMBING CONTRACTOR

**NOTE:**  
SOME SYMBOLS AND ABBREVIATIONS SHOWN MAY NOT PERTAIN TO THIS PROJECT.

LINETYPE	DESCRIPTION
---	EXISTING SANITARY SEWER PIPING
----	EXISTING SANITARY VENT PIPING
----	EXISTING DOMESTIC COLD WATER PIPING
----	EXISTING DOMESTIC HOT WATER PIPING
----	EXISTING HOT WATER RECIRCULATION PIPING
---ST---	EXISTING STORM PIPING
---RO---	EXISTING ROOF OVERFLOW PIPING
---EG---	EXISTING NATURAL GAS PIPING
---ELP---	EXISTING LP GAS PIPING
---EA---	EXISTING MEDICAL AIR PIPING
---EAW---	EXISTING ACID WASTE PIPING
---EAV---	EXISTING ACID VENT PIPING
---ECO2---	EXISTING MEDICAL CO2 PIPING
---EVAC---	EXISTING MEDICAL EVAC VACUUM PIPING
---EV---	EXISTING MEDICAL VACUUM PIPING
---EN---	EXISTING NITROGEN PIPING
---ENO---	EXISTING NITROUS OXIDE PIPING
---EO---	EXISTING OXYGEN PIPING
---EDI---	EXISTING DEIONIZED WATER PIPING
---ERO---	EXISTING REVERSE OSMOSIS PIPING
---EGR---	EXISTING GREASE WASTE PIPING
---FOR---	FUEL OIL RETURN PIPING
---FOS---	FUEL OIL SUPPLY PIPING
---	SANITARY SEWER PIPING (ABOVE GROUND)
---	SANITARY SEWER PIPING (BELOW GROUND)
---	SANITARY VENT PIPING
---	DOMESTIC COLD WATER PIPING
---	DOMESTIC HOT WATER PIPING
---	HOT WATER RECIRCULATION PIPING
---ST---	STORM PIPING
---RO---	ROOF OVERFLOW PIPING
---G---	NATURAL GAS PIPING
---LP---	LP GAS PIPING
---A---	MEDICAL AIR PIPING
---AW---	ACID WASTE PIPING
---AV---	ACID VENT PIPING
---CO2---	MEDICAL CO2 PIPING
---VAC---	MEDICAL EVAC VACUUM PIPING
---V---	MEDICAL VACUUM PIPING
---N---	NITROGEN PIPING
---NO---	NITROUS OXIDE PIPING
---O---	OXYGEN PIPING
---DI---	DEIONIZED WATER PIPING
---RO---	REVERSE OSMOSIS PIPING
---GR---	GREASE WASTE PIPING
---CD---	CONDENSATE PIPING
---FM---	FORCED MAIN PIPING
---ID---	INDIRECT DRAIN PIPING
---CA---	COMPRESSED AIR PIPING
---GW---	GRAY WATER WASTE PIPING

PIPE MATERIAL	PIPE SIZE (INCHES)	HORIZONTAL PIPE MAX HANGER DISTANCE (FEET)	VERTICAL PIPE MAX HANGER DISTANCE (FEET)
COPPER & COPPER TUBING	1/2" & SMALLER	6	10
COPPER & COPPER ALLOY TUBING	3/8" & LARGER	10	10
COPPER & COPPER ALLOY PIPE	ALL	12	10
CAST IRON PIPE	ALL	4 *	15
STEEL PIPE	ALL	12	15
STAINLESS STEEL DRAINAGE SYSTEM	ALL	10	10 **
PVC & PVC PIPE	ALL	4	10 **

NOTES:  
\* MAXIMUM HORIZONTAL SPACING OF CAST IRON PIPE HANGERS SHALL BE INCREASED TO TEN FEET WHERE 10' LENGTHS OF PIPE ARE USED.  
\*\* MIDSTORY GUIDE FOR SIZES 2" AND SMALLER  
\*\*\* NOT ALL PIPE MATERIALS ON THIS TABLE WILL PERTAIN TO THIS PROJECT

**PLUMBING GENERAL NOTES:**

- THE PLUMBING CONTRACTOR SHALL VERIFY THESE DRAWINGS WITH EXISTING FIELD CONDITIONS AND SHALL COORDINATE WITH CIVIL ENGINEER LOCATIONS AND ELEVATIONS OF PLUMBING SERVICE LINES BEFORE PROCEEDING WITH CONSTRUCTION. THE WATER, SANITARY SEWER, STORM & GAS SERVICE LINES SHOWN ON THE DRAWINGS ARE FOR REFERENCE & BUILDING PERMIT ONLY. REFER TO CIVIL ENGINEERS DRAWINGS FOR DRAINAGE & WATER SERVICE LINES LAY-OUT & DETAILS.
- PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL COMPLETE SANITARY AND DOMESTIC WATER PIPING SYSTEMS, INCLUDING ALL ASSOCIATED DEVICES, EQUIPMENT, CONTROLS, CONNECTIONS TO BUILDING SERVICE LINES, SUPPORTS, AND HARDWARE REQUIRED FOR THE SATISFACTORY OPERATION OF THE SYSTEMS.
- PLUMBING CONTRACTOR SHALL PROVIDE ROUTING AND OFFSETS NECESSARY TO AVOID CONFLICT WITH STRUCTURE, FINISHES AND WORK OF OTHER TRADES AS REQUIRED.
- PIPING SYSTEMS SHOWN ARE DIAGRAMATIC AND ARE NOT INTENDED TO INDICATE EXACT INSTALLED LOCATIONS OR CONFIGURATIONS.
- COORDINATE EXACT LOCATION, SIZE AND ELEVATIONS OF ANY REQUIRED PIPE SLEEVES IN NEW STRUCTURE WITH STRUCTURAL ENGINEER.
- BAND IRON TIE WIRE, METAL STRAPPING OR WIRE STRAPPING SHALL NOT BE PERMITTED TO SUPPORT PIPING OR EQUIPMENT.
- INSTALL ALL PIPING TO ALLOW FOR FUTURE EXPANSION.
- ALL OPENINGS THROUGH FIRE RATED WALLS OR FLOORS SHALL BE SEALED AS PER U.L. LISTED PENETRATION AND SHALL MAINTAIN THE FIRE RATED INTEGRITY OF THE WALL OR FLOOR. THE CONTRACTOR SHALL VERIFY FIRE RATINGS WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION.
- PROVIDE ACCESS PANELS AT ALL PLACES WHERE EQUIPMENT AND DEVICES REQUIRING SERVICE ARE CONCEALED BEHIND INACCESSIBLE CEILING AND WALLS. SUCH DEVICES INCLUDE, BUT ARE NOT LIMITED TO, CLEANOUTS, WATER HAMMER ARRESTORS AND VALVES. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- CONSTRUCTION AND THICKNESS OF WALLS AND PARTITIONS FOR PLUMBING PIPING OR EQUIPMENT SHALL BE AS REQUIRED BY PLUMBING EQUIPMENT MANUFACTURER'S INSTALLATION REQUIREMENTS AND INSTRUCTIONS.
- ALL PIPING AND FITTINGS EXPOSED TO VIEW SHALL HAVE A POLISHED CHROME FINISH UNLESS OTHERWISE NOTED.
- ALL PLUMBING WORK SHALL COMPLY WITH INTERNATIONAL BUILDING CODES - BUILDING, PLUMBING, MECHANICAL AND - FUEL GAS CODE; LATEST EDITION WITH LATEST AMENDMENTS (INCLUDING LOCAL) AND ALL OTHER CODES RECENTLY ADOPTED BY STATE FIRE MARSHALL'S RULE.

**DOMESTIC WATER PIPING NOTES:**

- BELOW GROUND WATER PIPING SHALL BE TYPE "K" COPPER WITH VINYL SLEEVE FOR CORROSION PROTECTION WITH WROUGHT COPPER FITTINGS AND LEAD FREE 95-5 SOLDERED JOINTS.
- ABOVE GROUND WATER PIPING SHALL BE TYPE "K" COPPER, COMPLY WITH BUILDING CODE.
- PROVIDE EACH FIXTURE WITH STOPS AND SUPPLIES. EXPOSED STOPS AND SUPPLIES SHALL BE CHROME PLATED WITH A CHROME PLATED ESCUTCHEON PLATE.
- PROVIDE UNIONS FOR ALL CONNECTIONS TO EQUIPMENT. PROVIDE ELECTRIC TYPE WHERE DISSIMILAR METALS ARE CONNECTED.
- INSULATE ALL HOT WATER PIPING WITH 1" THICK 3/4 LB DENSITY, RIGID FIBERGLASS INSULATION. INSULATE VALVES AND ALL SIMILAR DEVICES. INSULATE WATER PIPE AND TRAP 2" MIN AT ALL ADA COMPLIANT LOCATIONS.
- PROVIDE WATER HAMMER PROTECTION (PROVISION PLUMBING PRODUCTS SERIES "SWA" OR EQUAL) AT EACH WATER OR GREASE TRAP AND SIMILAR FIXTURES. FIELD FABRICATED MODELS ARE NOT PERMISSIBLE.
- PROVIDE VACUUM BREAKERS AS REQUIRED BY CODE.
- PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS AS REQUIRED BY CODE.
- TEST ALL WATER PIPING AT 100 PSI FOR TWENTY FOUR HOURS AS REQUIRED BY CODE.
- UTILIZE ALL WATER PIPING IN ACCORDANCE WITH HEALTH DEPARTMENT REGULATIONS AND CLEAN WATER WORKS SPECIFICATIONS.
- SUPPORT ALL WATER PIPING WITH PIPE HANGERS BY GRINNELL OR APPROVED EQUAL.
- PROVIDE ACCESS PANELS FOR ANY VALVES CONCEALED IN WALLS OR CEILING SPACE.

**SANITARY WASTE & VENT PIPING NOTES:**

- ABOVE AND BELOW GROUND SANITARY WASTE AND VENT PIPING SHALL BE PVC-UWY SCHEDULE 40 PIPE.
- ALL SANITARY WASTE PIPING UP TO 2 1/2" IN SIZE SHALL BE SLOPED AT 1/8" PER FOOT SLOPE. ALL LARGER SANITARY WASTE PIPING SHALL BE SLOPED AT 1/4" PER FOOT SLOPE.
- ALL VENTS THROUGH THE ROOF SHALL BE A MINIMUM OF 10'-0", OR AS REQUIRED BY CODE, AWAY FROM ANY OPENINGS INTO THE BUILDING AND FRESH AIR INTAKES.
- ALL VENTS THROUGH THE ROOF SHALL BE PROVIDED WITH FOUR LB SHEET LEAD FLASHING EXTENDING UPWARD AROUND THE PIPE AND TURNED DOWN INSIDE THE PIPE.
- ALL EXPOSED WASTE DRAINS OR PIPING SHALL BE CHROME PLATED WITH MATCHING ESCUTCHEONS.
- CLEANOUTS SHALL BE PROVIDED AT THE BASE OF EACH SANITARY WASTE OR SOIL STACK AT A MINIMUM OF 18" A.F.F. PER THE LATEST EDITION OF THE PLUMBING CODE.
- TEST SANITARY WASTE AND VENT PIPING BY MEANS OF A 10" WATER COLUMN FOR 24 HOURS OR AS REQUIRED BY THE LOCAL AUTHORITY.

**GAS PIPING NOTES:**

- GAS PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE OR NFPA-54 WHERE REQUIREMENTS ARE MORE STRINGENT.
- ALL GAS EQUIPMENT SHALL BE A.G.A. APPROVED.
- THE INSTALLATION SHALL BE FOR NATURAL GAS.
- THE INSTALLATION SUBCONTRACTOR SHALL BE LICENSED FOR THE INSTALLATION OF NATURAL GAS.
- GAS PIPING SHALL BE SCHEDULE 40, WELDED AND SEAMLESS, WROUGHT STEEL PIPE (ASME B36, 10). ANY GAS PIPING WHICH IS EXPOSED SHALL BE PAINTED WITH "RUSTOLEUM" PAINT. VERIFY COLOR WITH ARCHITECT.
- GAS PIPING SHALL BE HUNG TIGHT TO THE ROOF STRUCTURE, SUPPORTED WITH HANGERS BY GRINNELL OR EQUAL.
- BRANCH TAPS MUST BE MADE OFF OF THE TOP OF THE PIPING.
- CONNECTION TO EACH PIECE OF EQUIPMENT SHALL INCLUDE AN INVERTED TRAP, A GAS VALVE, A UNION AND A DIRT LEG.
- ALL GAS FLUES SHALL BE A MINIMUM OF 10'-0", OR AS REQUIRED BY CODE, AWAY FROM OPENINGS INTO BUILDING AND FRESH AIR INTAKES.

SHEET	DESCRIPTION
P-1	PLUMBING COVER SHEET
P-2	PLUMBING SUPPLY PLAN
P-3	PLUMBING SANITARY PLAN
P-4	PLUMBING ISOMETRIC RISERS
P-5	PLUMBING DETAILS
P-6	PLUMBING DETAILS & SCHEDULES
P-7	PLUMBING SPECIFICATIONS

FIXTURE	QUANTITY	TYPE	F.U.	TOTAL F.U.	D.F.U.	TOTAL D.F.U.
DRINKING FOUNTAIN	2		0.25	0.5000	0.50	1.0000
LAVATORY	3	PUBLIC	2.00	6.0000	1.00	3.0000
SERVICE SINK	1		3.00	3.0000	1.00	2.0000
WATER CLOSET (TANK)	2	PUBLIC	5.00	10.0000	1.00	8.0000
HOSE BIBB/WALL HYDRANT	4		5.00	20.0000	1.00	18.0000
INTERNATIONAL PLUMBING CODE			TOTAL	39.5000	10.0000	14.0000
				1"	4"	4"

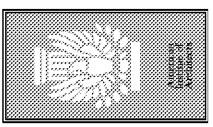
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Date	12-06-2019
Drawn	JL
Designed	JL
EOR	JHG
Job no.	19113

ISSUE	DATE	BY:
REVIEW	01/01/01	XX
PERMIT	01/01/01	XX
REV.		
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Construction Documents for:  
**TIRE CHOICE - GOLDENROD**  
7412 HOFFNER AVE  
ORLANDO, FLORIDA

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This item has been electronically signed and sealed by Joseph H. Griner, III using a Digital Signature and data. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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ALL DIMENSIONS AND JOB CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR. ANY AND ALL DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT PRIOR TO COMMENCEMENT OF CONSTRUCTION.

SHEET TITLE  
PLUMBING  
COVER SHEET

SHEET NUMBER  
**P-1**