



STRUCTURAL SLAB/UNDERSLAB PIPE HANGER-DETAIL.
SCALE: NONE

TERMINATE OVERFLOW DRAIN AS HIGH AS POSSIBLE WITH DOWNSPOUT COVER

NOTES:
1. CONTRACTOR SHALL CAREFULLY CO-ORDINATE THE LOCATION OF CLOSET BENDS WITH FOUNDATION TO ALLOW FOR PROPER INSTALLATION.
2. CONTRACTOR SHALL CAREFULLY CO-ORDINATE THE LOCATION OF ALL PENETRATIONS THRU, UNDER AND AROUND FOUNDATIONS AND PIERS, PRIOR TO POURING OF FOUNDATIONS OR FLOORS.

WASTE & STORM PIPING PLAN
SCALE: 1/4"=1'-0"

DRAWING NOTES

- SEE DRAWING P-1.0 FOR PLUMBING LEGEND.
- SEE DRAWING P-3.2 FOR GENERAL PLUMBING NOTES.
- SEE DRAWING P-3.2 FOR PLUMBING FIXTURE SCHEDULES AND DETAILS.
- SEE DRAWING P-2.0 FOR PLUMBING ROUGH-INS.

- THE WORK COVERED BY THIS CONTRACT SHALL INCLUDE, UNLESS SPECIFIED OTHERWISE, THE FURNISHING OF ALL LABOR, EQUIPMENT, TOOLS, RIGGING, HOISTING, STAGING AND MATERIALS AND THE PERFORMANCE OF ALL OPERATIONS NECESSARY FOR PROPER AND COMPLETE EXECUTION OF THE WORK IN ACCORDANCE WITH THESE SPECIFICATIONS AND THE DRAWINGS, SUBJECT TO THE TERMS AND CONDITIONS OF THIS CONTRACT.
- ALL WORK SHALL BE INSTALLED IN A FIRST-CLASS MANNER CONSISTENT WITH THE BEST CURRENT PRACTICES. ITEMS NOT SHOWN ON THESE DRAWINGS, BUT WHICH ARE NECESSARY TO MAKE A COMPLETE PLUMBING SYSTEM INSTALLATION, SHALL BE FURNISHED AND INSTALLED AS PART OF THE WORK UNDER THIS CONTRACT. ALL LAYOUTS ARE DIAGRAMMATIC AND FINAL ARRANGEMENT SHALL SUIT FIELD CONDITIONS.
- ALL WORK SHALL BE INSTALLED IN CONFORMANCE TO THE GOVERNING CODES, REGULATIONS AND ORDINANCES. THESE REQUIREMENTS ARE MINIMUM CRITERIA AND NO REDUCTIONS IN STANDARDS CALLED FOR ON THE DRAWINGS, PERMITTED BY CODE, WILL BE ALLOWED. OBTAIN AND PAY FOR ALL INSPECTIONS, LICENSES, PERMITS AND APPROVALS REQUIRED BY GOVERNING AUTHORITIES AND INSTALL ALL WORK IN COMPLIANCE THEREOF.
- ALL MATERIALS AND WORKMANSHIP SHALL CARRY THE STANDARD WARRANTY AGAINST ALL DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE WORK. ANY FAULT DUE

- TO DEFECTIVE MATERIALS, EQUIPMENT, OR WORKMANSHIP WHICH MAY DEVELOP WITHIN THAT PERIOD SHALL BE MADE GOOD, FORTHWITH, BY AND AT THE EXPENSE OF THE PLUMBING CONTRACTOR, INCLUDING ANY DAMAGE DONE TO AREAS, MATERIALS, AND OTHER SYSTEMS RESULTING FROM THIS FAILURE.
- THE PLUMBING CONTRACTOR SHALL CONFER WITH ALL OTHER CONTRACTORS AS TO THE LOCATION OF THEIR WORK BEFORE BEGINNING THE INSTALLATION OF THE PLUMBING SYSTEM. HE SHALL INSTALL ALL WORK IN SUCH A MANNER AS TO AVOID INTERFERENCE WITH ALL OTHER TRADES.
- THIS CONTRACTOR SHALL STUDY ALL RELATED ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND UTILITY DRAWINGS, AS WELL AS THE SPECIFICATIONS AND ALL OTHER AVAILABLE INFORMATION PRIOR TO SUBMITTING HIS BID PRICE. THE BIDDERS SHALL ALSO FULLY INFORM THEMSELVES OF ALL LOCAL AND STATE CODE REQUIREMENTS.
- THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND SHALL VERIFY LOCATIONS FOR CONNECTIONS TO SERVICES. ANY CONFLICTS BETWEEN THE DRAWING AND FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE THIS CONTRACTOR SUBMITS HIS PRICE FOR THE WORK.
- SUBMIT SHOP DRAWINGS OF ALL EQUIPMENT AND MATERIALS TO BE INCORPORATED IN THE WORK. THIS CONTRACTOR SHALL ASSUME ALL

PLUMBING SPECIFICATIONS

- COSTS FOR ANY ADDITIONAL CORRECTIONS, SUPPORTS OR CONSTRUCTION REQUIRED FOR MATERIALS WHICH ARE SUBSTITUTED FOR THOSE SPECIFIED.
- ALL MATERIALS, PIPING, FITTINGS, FIXTURES, ETC. SHALL BE PROPERLY PROTECTED TO PREVENT OBSTRUCTIONS AND/OR DAMAGE.
 - CUTTING AND PATCHING OF MASONRY, CONCRETE, OR OTHER PARTS OF THE STRUCTURE SHALL BE PERFORMED BY THE GENERAL CONTRACTOR.
 - ACCESS PANELS SHALL BE FURNISHED BY THIS CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.
 - PIPING
 - SANITARY AND STORM PIPING SYSTEMS SHALL BE OF SCHEDULE 40 PVC AND DRAINAGE FITTINGS WITH SOLVENT WELDED JOINTS. PIPING SHALL BE INSTALLED IN CONFORMANCE WITH ALL MANUFACTURER'S RECOMMENDATIONS. VENT PIPING, TWO INCHES (2") AND SMALLER, MAY BE TYPE "K" COPPER TUBING WITH SWEATED JOINTS OR SCHEDULE 40 GALVANIZED STEEL PIPE WITH THREADED JOINTS.
 - ALL DOMESTIC WATER PIPING ABOVE THE SLAB SHALL BE TYPE "L" HARD DRAWN COPPER TUBING. TUBING AND FITTINGS SHALL BE JOINED WITH LEAD-FREE SOLDER AND A NON-CORROSIVE FLUX. WATER PIPING BELOW THE SLAB SHALL BE TYPE "K" SOFT TEMPER COPPER TUBING WITH COMPRESSION FITTINGS.
 - GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE, CONFORMING WITH ASTM STANDARD A.53-F.
 - VALVES
 - SHUT-OFF VALVES IN INTERIOR DOMESTIC WATER SYSTEMS SHALL BE PROVIDED ON CONNECTIONS WHERE SHOWN FOR EACH GROUP OF FIXTURES AND FIXTURES FED SEPARATELY FROM PIPING MAINS. VALVES SHALL BE OF THE BALL TYPE WITH SOLDER ENDS.
 - GAS VALVES SHALL BE FURNISHED AND INSTALLED AT CONNECTIONS TO EACH APPLIANCE AND AT EACH RISER. GAS COCKS SHALL BE BRASS BODY TEE-HANDLE TYPE WITH BOSTON KEY.
 - HANGERS
 - VERTICAL PIPE SHALL BE SUPPORTED BY SPLIT-RING TYPE CLAMPS. HANGERS ON HORIZONTAL PIPING SHALL BE OF THE CLEVIS TYPE, HAVING THE FOLLOWING SPACING:
 - PVC PIPE - 3'-0" ON CENTER FOR PIPING 1-1/2" DIAMETER AND SMALLER; 4'-0" ON CENTER FOR PIPE 2" DIAMETER AND LARGER.
 - COPPER TUBING AND STEEL PIPE - 6'-0" O.C. FOR 1-1/4" AND SMALLER; 10'-0" O.C. FOR 1-1/2" AND LARGER.
 - DOMESTIC WATER AND STORM PIPING ABOVE THE SLAB SHALL BE INSULATED WITH HEAVY-DENSITY FIBERGLASS INSULATION, ONE INCH (1") THICK, WITH VAPOR BARRIER JACKET HAVING A SELF-SEALING LAP. ALL WATER PIPING BELOW THE SLAB SHALL BE COVERED WITH 1/2" THICK, CLOSED CELL NEOPRENE INSULATION.
 - ALL PLUMBING FIXTURES AND EQUIPMENT SHALL BE FURNISHED AND INSTALLED COMPLETE WITH ALL SUPPORTS, TRAPS, CONNECTIONS, FITTINGS, AND ANY INCIDENTALS REQUIRED TO MAKE A COMPLETE INSTALLATION.
 - ALL PLUMBING SYSTEM WORK SHALL BE TESTED AS DIRECTED BY THE LOCAL PLUMBING INSPECTOR AND ALL DEFECTS SHALL BE REPAIRED TO HIS SATISFACTION AT NO COST TO THE OWNER.
 - ALL VENTS THRU ROOF MUST EXTEND 2'-0" ABOVE THE AIR INTAKES OF THE ROOFTOP HVAC UNITS.

REVISIONS	NO.	DATE	BY
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SHEET TITLE: **WASTE & STORM PIPING PLAN**

PREPARED FOR: **McDonald's USA, LLC**
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SHEET NUMBER: **P1.1**