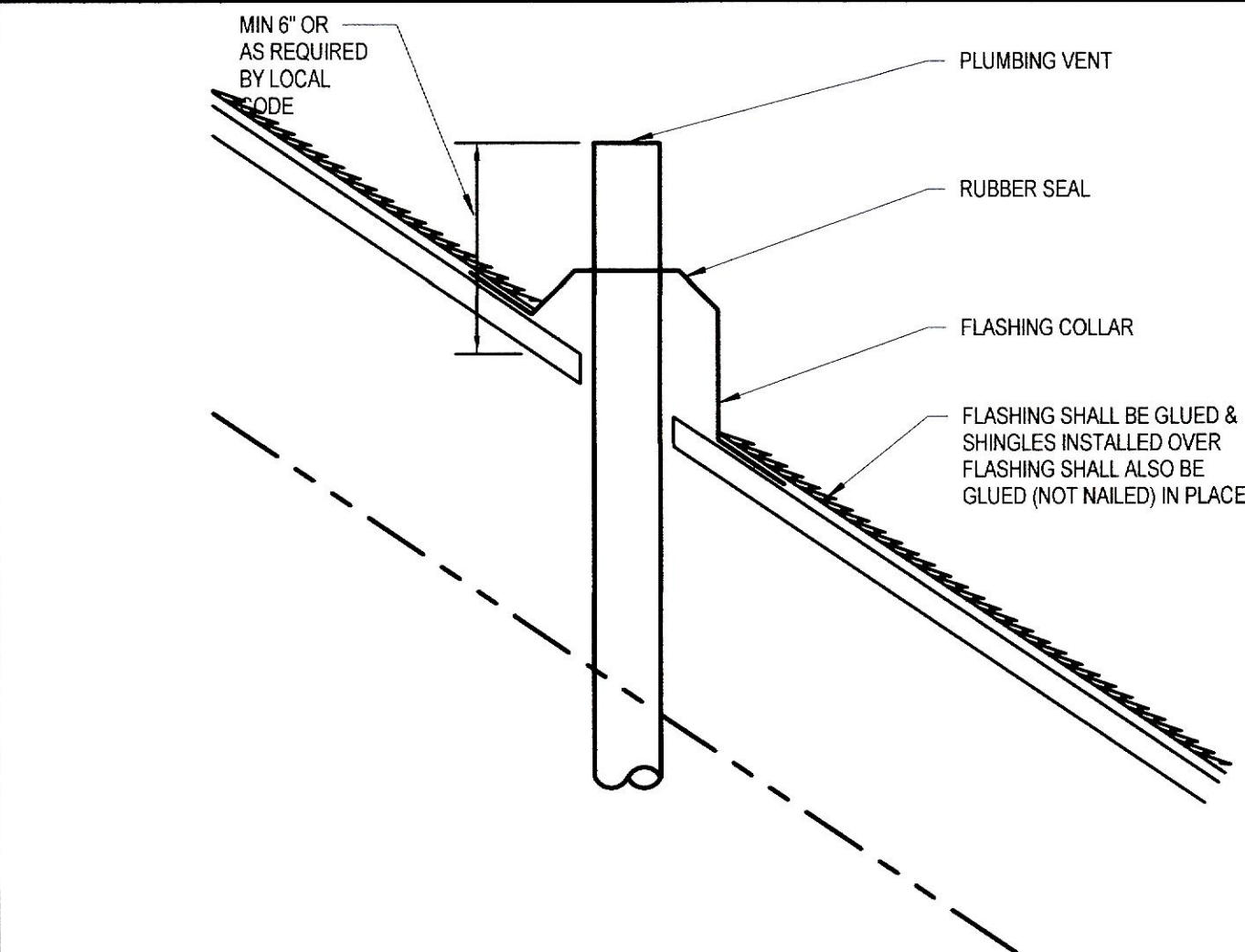
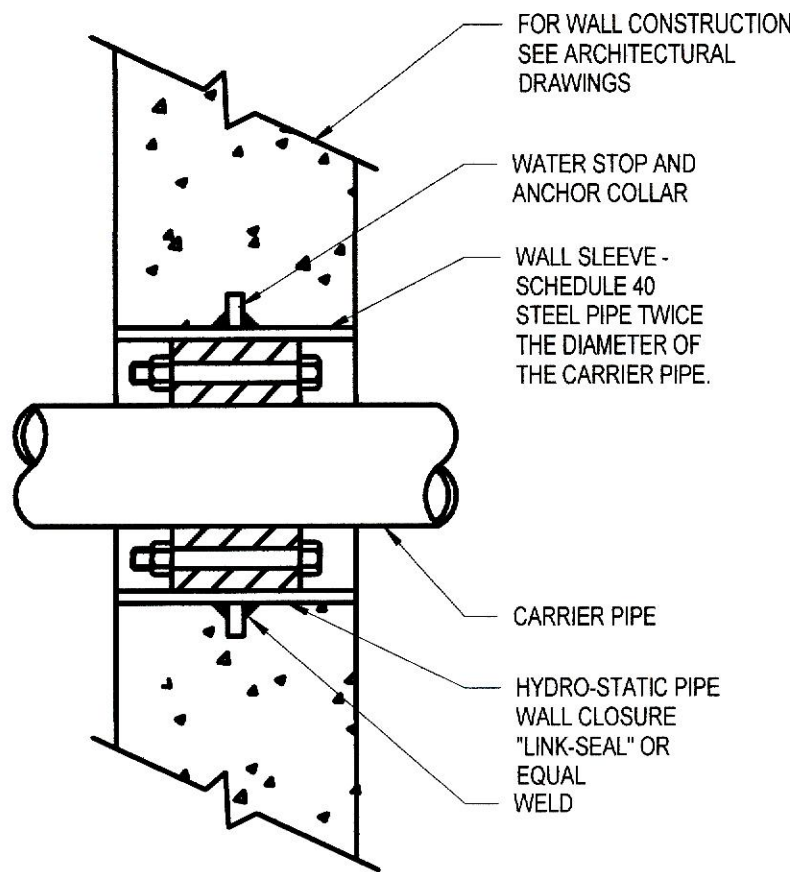




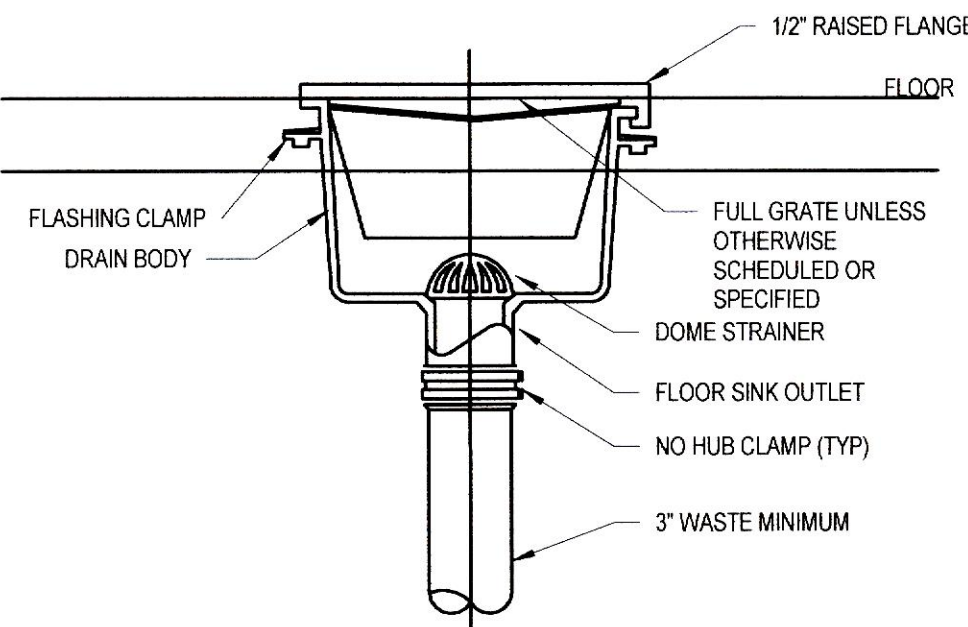
VENT THROUGH ROOF DETAIL

NOT TO SCALE



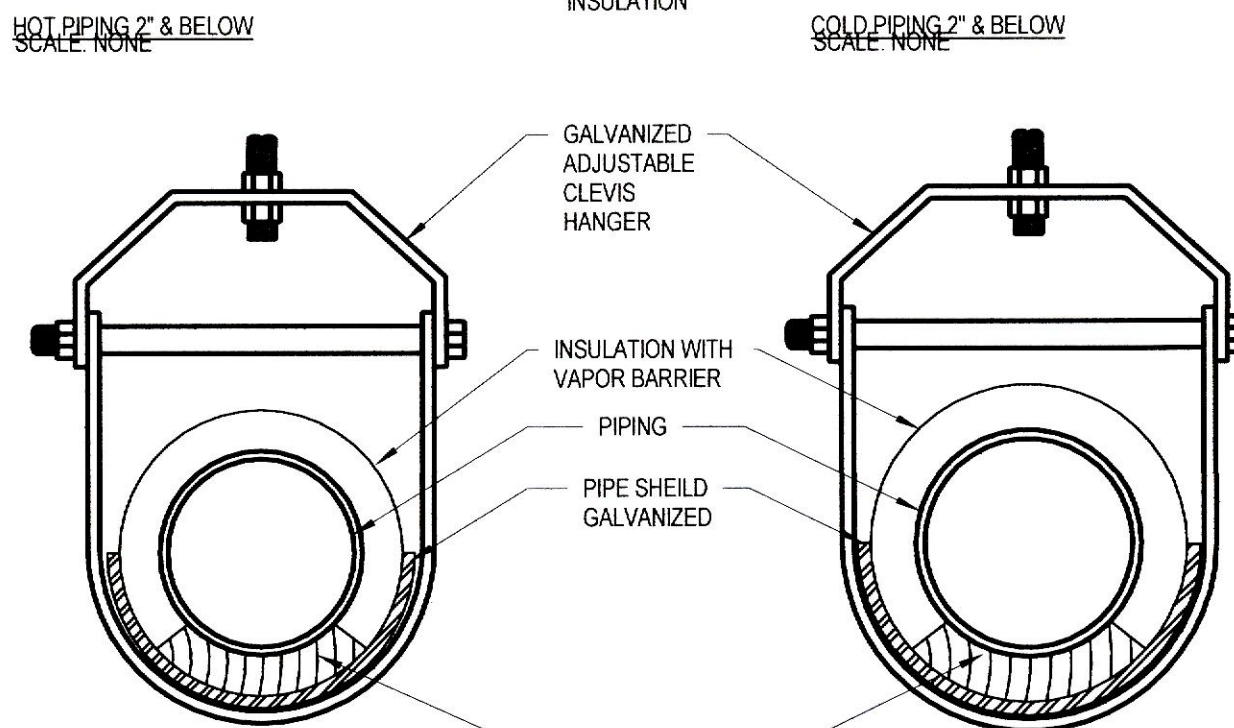
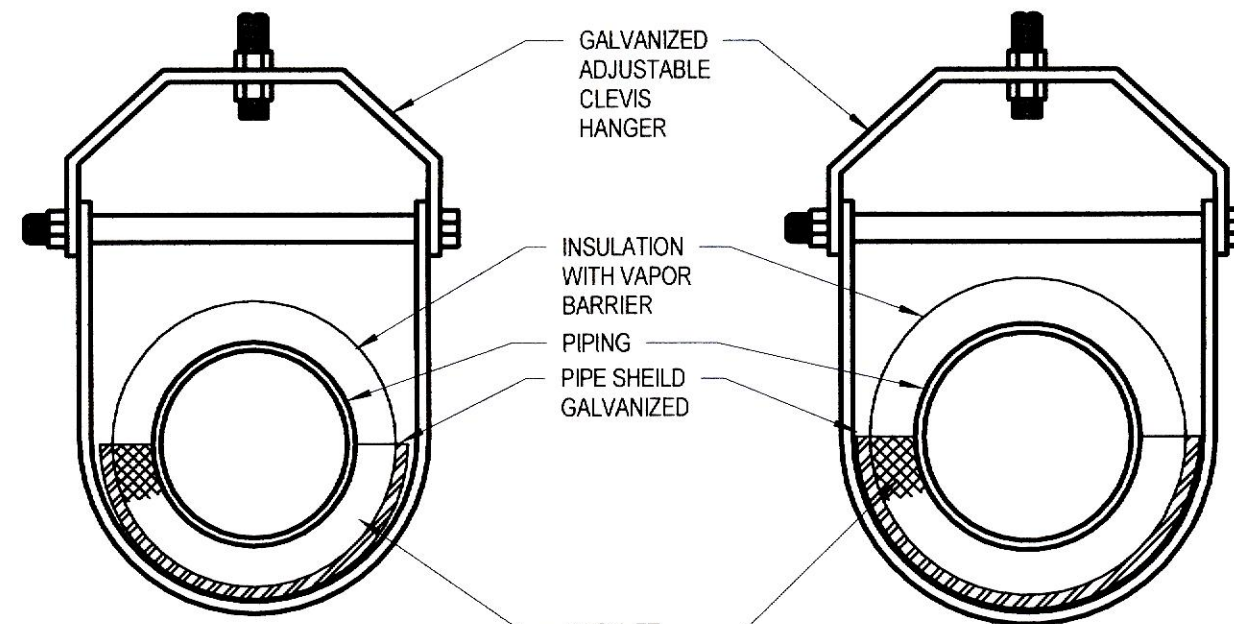
WATERTIGHT WALL PENETRATION DETAIL

NOT TO SCALE



FLOOR SINK DETAIL

NOT TO SCALE



PIPE HANGER DETAILS

NOT TO SCALE

PLASTIC PIPE SHOULD ALWAYS BE BURIED IN STRICT ACCORDANCE WITH THE ASTM STANDARD RELEVANT TO THE TYPE OF PLASTIC PIPING SYSTEM BEING INSTALLED. THOSE STANDARDS ARE:
SCALE: NONE
ASTM D2321 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS
ASTM D2774 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PRESSURE PIPING
NOTE: IN ADDITION TO THESE STANDARDS, PIPE SHOULD ALWAYS BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODE REQUIREMENTS.

RECOMMENDATIONS FOR UNDERGROUND INSTALLATION OF PLASTIC DRAINAGE PIPE:

1. THE MINIMUM WIDTH OF THE TRENCH SHOULD BE THE PIPE OD (OUTSIDE DIAMETER) PLUS 18 INCHES OR THE PIPE OUTSIDE DIAMETER TIMES 1.25 PLUS 12 INCHES. THIS WILL ALLOW ADEQUATE ROOM FOR JOINING THE PIPE, SINKING THE PIPE IN THE TRENCH TO ALLOW FOR EXPANSION AND CONTRACTION WHERE APPROPRIATE AND SPACE FOR BACKFILLING AND COMPACTION OF BACKFILL. THE SPACE BETWEEN THE PIPE AND TRENCH WALL MUST BE WIDER THAN THE COMPACTION EQUIPMENT USED TO COMPACT THE BACKFILL.
2. PROVIDE A MINIMUM OF 4 INCHES OF FIRM, STABLE AND UNIFORM BEDDING MATERIAL IN THE TRENCH BOTTOM. IF ROCK OR UNYIELDING MATERIAL IS ENCOUNTERED, A MINIMUM OF 6 INCHES OF BEDDING SHALL BE USED. BLOCKING SHOULD NOT BE USED TO CHANGE PIPE GRADE OR TO INTERMITTENTLY SUPPORT PIPE OVER LOW SECTIONS IN THE TRENCH.
3. THE PIPE SHOULD BE SURROUNDED WITH AN AGGREGATE MATERIAL WHICH CAN BE EASILY WORKED AROUND THE SIDES OF THE PIPE. BACKFILLING SHOULD BE PERFORMED IN LAYERS OF 6 INCHES WITH EACH LAYER BEING SUFFICIENTLY COMPACTED TO 85% TO 95% COMPACTION.
4. A MECHANICAL TAMPER IS RECOMMENDED FOR COMPACTION SAND AND GRAVEL. THESE MATERIALS CONTAIN FINE GRAINS, SUCH AS SILT AND CLAY. IF A TAMPER IS NOT AVAILABLE, COMPACTION SHOULD BE DONE BY HAND.
5. THE TRENCH SHOULD BE COMPLETELY FILLED. THE BACKFILL SHOULD BE PLACED AND SPREAD IN UNIFORM LAYERS TO PREVENT ANY UNFILLED SPACES OR VOIDS. LARGE ROCKS, STONES, FROZEN CLODS, OR OTHER LARGE DEBRIS SHOULD BE REMOVED. STONE BACKFILL SHALL PASS THROUGH AN 1-1/2\"/>
6. TO PREVENT DAMAGE TO THE PIPE AND DISTURBANCE TO PIPE EMBEDMENT, A MINIMUM DEPTH OF BACKFILL ABOVE THE PIPE SHOULD BE MAINTAINED. PIPE SHOULD ALWAYS BE INSTALLED BELOW THE FROST LEVEL. TYPICALLY, IT IS NOT ADVISABLE TO ALLOW VEHICULAR TRAFFIC OR HEAVY CONSTRUCTION EQUIPMENT TO TRANSVERSE THE PIPE TRENCH.

UNDERGROUND INSTALLATION DETAIL OF PLASTIC PIPING SYSTEM

NOT TO SCALE

Millington Senior Village

Residential Buildings

172 Sassafas Street
Millington, MD 21651

PRESENT PREPARED BY COMPANY

PROJECT DIRECTORY

DEVELOPER

Home Partnership
of Cecil County, Inc

626 TOWNE CENTER DRIVE, SUITE 102
JOPPA, MD 21085

TEL 410.679.3200

CIVIL ENGINEER

Atwell, LLC

4692 MILLENNIUM DRIVE, SUITE 305
BELCAMP, MD 21017

TEL 302.369.2900

ARCHITECT

Present Company

2209 MARYLAND AVE
BALTIMORE, MD 21218

TEL 410.696.3321

STRUCTURAL ENGINEER

Skarda and Associates

2439 N CHARLES STREET
BALTIMORE, MD 21218

TEL 410.366.9394

MECHANICAL ENGINEER

Bowley Jones

1107 BURKHARDT LANE
SEVERN, MARYLAND, 21144

TEL 410.777.9493

ENERGY CONSULTANT

Lorax Partnerships, LLC

808 ST. PAUL STREET
BALTIMORE, MD 21202

TEL 443.449.6319

GENERAL CONTRACTOR

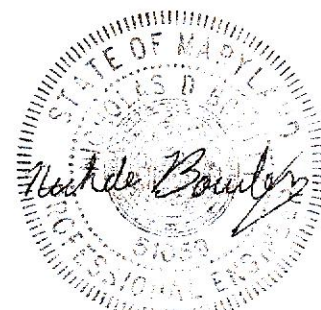
Willow Construction

8649 COMMERCE DRIVE
EASTON, MD 21601

TEL 410.822.6000

© 2024 PRESENT COMPANY. ALL RIGHTS RESERVED

PROFESSIONAL CERTIFICATION



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 51059, Expiration Date: 06-01-2027.

REVISIONS

DATE NO. ISSU

SUBMISSION

100% Construction Documents
PERMIT SET REISSUE
June 22, 2026

DRAWING NAME / NO. SCALE: 12" = 1'-0"

PLUMBING DETAILS

M502