DRIP (RECESS) IN **PRECAST** EXPANDING URETHANE FOAM AIR SEAL GASKETED COLLAR-EXTERIOR AIR SEAL BETWEEN COLLAR AND PIPE/CONDUIT/ETC. SHEET METAL CLOSURE (AROUND PENETRATION, ALL SIDES) TWO-STAGE SEALANT_ JOINT AT SLOPED PRECAST JOINT. SEE OTHER DETAILS FOR HORIZONTAL-TO-VERTICAL JOINT TRANSITION. ALL VERTICAL JOINTS TO BE DRAINED AT HORIZONTAL JOINTS. FIRESTOP BETWEEN SLAB AND 0 PRECAST PANEL (PER APPLICABLE BUILDING CODE)

CONCEPTUAL - NOT FOR CONSTRUCTION

KEY CONCEPTS:

The dimensions and material relationships shown in this detail are not to scale and have been exaggerated for clarity. Actual dimensions will vary, and should be carefully coordinated with sequencing and construction tolerances to ensure the long-term durability and performance of this and similar exterior wall details.

Interface conditions between building envelope materials, components and systems should be fully detailed in a manner that is both technically sound and serviceable. Detailing should, at a minimum, allow for coordination of drainage planes when two or more different wall types are used in the same facade; allow for thermal and moisture-induced changes in material properties and differential thermal movement; and allow for in-service deflection, shrinkage, creep and similar behavior considered to be within the allowable structural limits of the project without compromise to the weather-tight integrity and thermal performance of the building envelope.

The air barrier can either be formed by an exterior side air barrier or by employing the interior side airtight drywall approach.

The location of or need for a vapor retarder within wall assemblies will vary based upon climate, and can be significantly influenced by the storage capacity and vapor permeance of the materials selected for each layer of the wall system. A climate-specific, hygrothermal analysis for any wall assembly should be considered to further evaluate this concern.

See the General section of the WBDG for additional information and guidance.

ARCHITECTURAL
PRECAST
ROUND PENETRATION FLASHING DETAIL

SLOPED SECTION BELOW PENETRATION CAST INTO PANEL PANEL SEE 2-D DETAIL FOR ALL ELEMENTS USED. DRIP CUT IN ABOVE PENETRATION TO REDIRECT PRECIPITATION AWAY FROM PENETRATION. GASKETED SLEEVE USED AROUND PENETRATION WITH EXTERIOR SEALANT BEAD.

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ARCHITECTURAL
PRECAST
ROUND PENETRATION EXTERIOR DETAIL

CONCEPTUAL - NOT FOR CONSTRUCTION

INSTALL EXPANDING URETHANE FOAM AIR SEAL AROUND PENETRATION. CHECK FIRE RATING AND OTHER

INSTALL EXPANDING URETHANE FOAM AIR SEAL AROUND PENETRATION. CHECK FIRE RATING AND OTHER APPROPRIATE REQUIREMENTS OF THE BUILDING CODE AND ALSO CHECK WITH THE PIPE/CONDUIT/ETC. (PENETRATION ELEMENT) MANUFACTURER TO ENSURE MATERIAL COMPATIBILITY BETWEEN THE FOAM AND PENETRATION MATERIAL.

CONCEPTUAL - NOT FOR CONSTRUCTION

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ARCHITECTURAL
PRECAST
ROUND PENETRATION INTERIOR DETAIL

DRIP (RECESS) IN **PRECAST** EXPANDING URETHANE FOAM AIR SEAL GASKETED COLLAR-EXTERIOR AIR SEAL BETWEEN COLLAR AND PIPE/CONDUIT/ETC. SHEET METAL CLOSURE (AROUND PENETRATION, ALL SIDES) TWO-STAGE SEALANT_ JOINT AT SLOPED PRECAST JOINT. SEE OTHER DETAILS FOR HORIZONTAL-TO-VERTICAL JOINT TRANSITION. ALL VERTICAL JOINTS TO BE DRAINED AT HORIZONTAL JOINTS. FIRESTOP BETWEEN SLAB AND 0 PRECAST PANEL (PER APPLICABLE BUILDING CODE)

CONCEPTUAL - NOT FOR CONSTRUCTION

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ARCHITECTURAL
PRECAST
ROUND PENETRATION FLASHING DETAIL