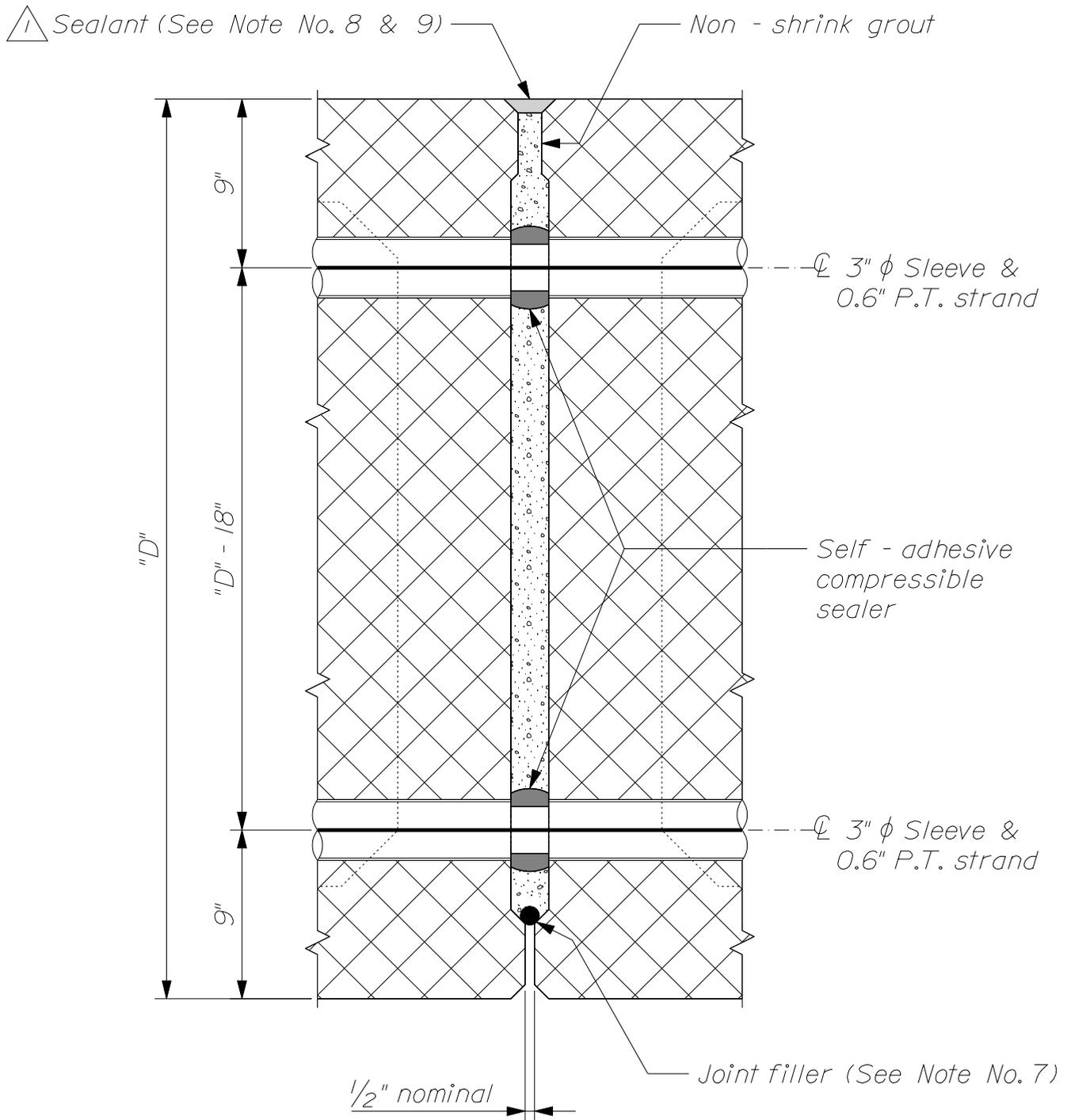
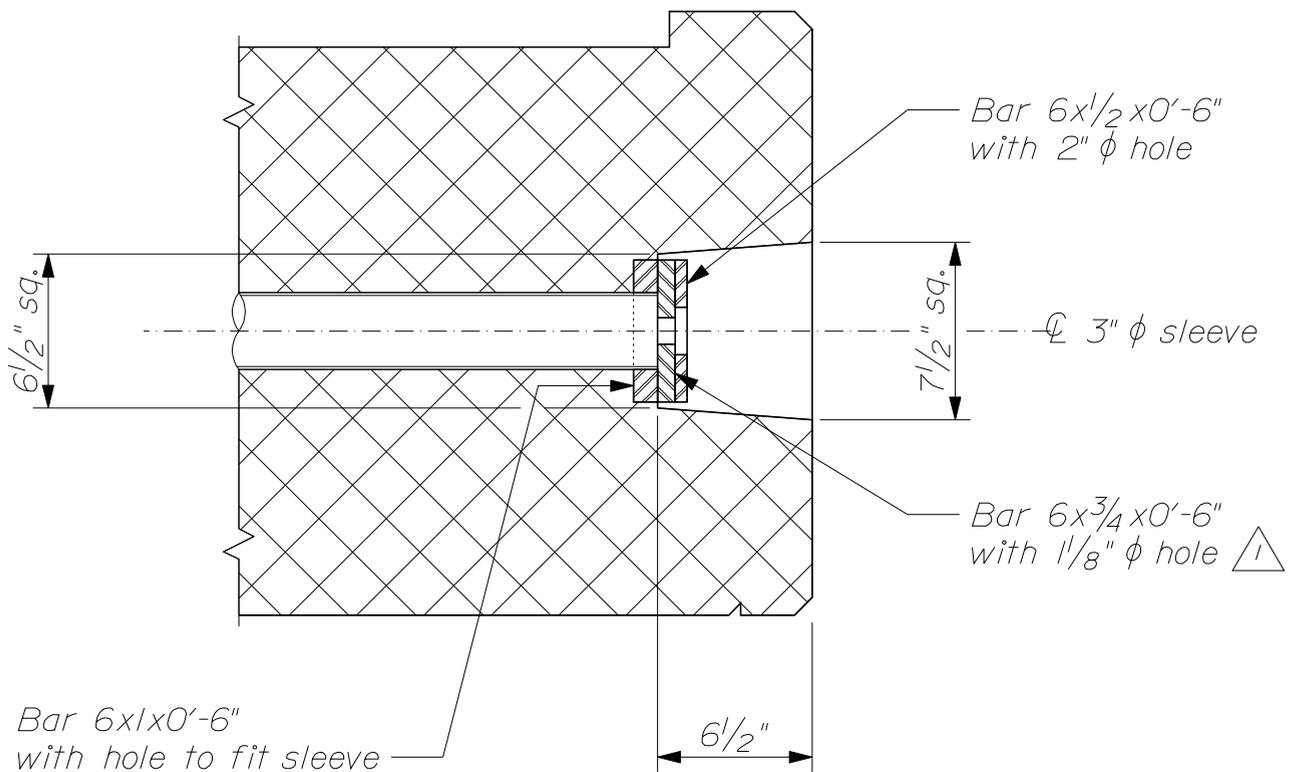


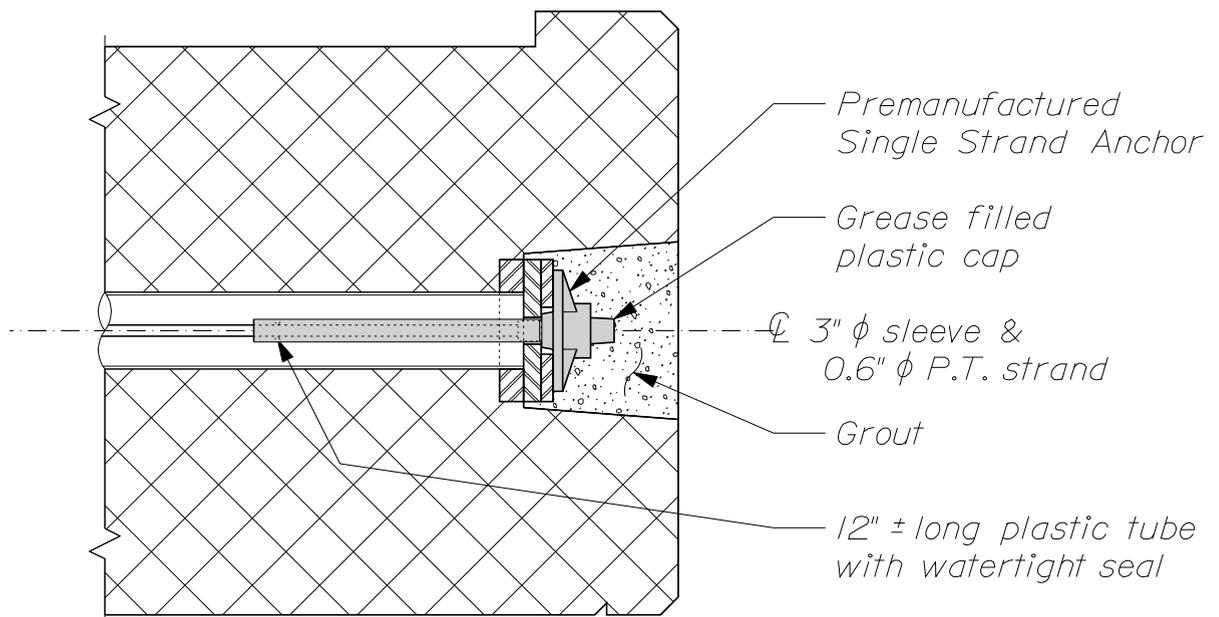
-- SHEAR KEY DETAIL --
 (For precast slabs and box beams where "D" \leq 24")



-- SHEAR KEY DETAIL --
 (For precast box beams where "D" \geq 27")



-- POST - TENSIONING BLOCK - OUT DETAIL --



-- POST - TENSIONING ANCHORAGE DETAIL --

NOTES:

1. Prestressing strands shown in the various details are schematic in nature and do not represent any specific design requirements.

2. Reinforcing steel shown is the required minimum. Individual designs may vary. Bending details and hooks shall conform to the recommendations of the current revision of ACI Standards 315 and 318.

3. For box beams, unless the design drawings specify a separate reinforced concrete slab to be constructed over the box beams, additional upper #4 stirrups shall be provided such that the maximum spacing of the upper stirrups over the voided areas is 12 inches.

4. All plates in the post - tensioning block - out detail shall be galvanized in accordance with ASTM A 123. 

5. Concrete around lifting devices shall be recessed a minimum of one inch below the surface. The recess shall be patched with an approved grout after removal of the lifting device.

6. For bridge skew angles up to 15°, the neoprene pad at the bearing area shall cover the entire bridge seat. Seams perpendicular to the centerline of bearing will be allowed provided that the seam occurs near the center of a precast unit with the unit bearing approximately equally on both pad pieces. For bridge skew angles greater than 15°, other bearing area treatment may be shown on the design drawings.

7. The Contractor will be responsible for providing a joint filler system adequate to contain the keyway grout during placement. No extra payment will be made for such system or for necessary repairs or other extra work if the joint filler system fails.

8. The shear key sealant shall be one of the polyurethane - based products listed on the MaineDOT Qualified Products List of Pour - In - Place Joint Sealant. 

9. When a high - performance waterproofing membrane is to be applied directly to the top of the precast units, eliminate the shear key sealant and fill the shear key to the top of the unit with non - shrink grout. 

10. If there is a conflict between these Standard Details and the Design Drawings, the requirements of the Design Drawings shall be followed.