HIGH CONCRETE GROUP

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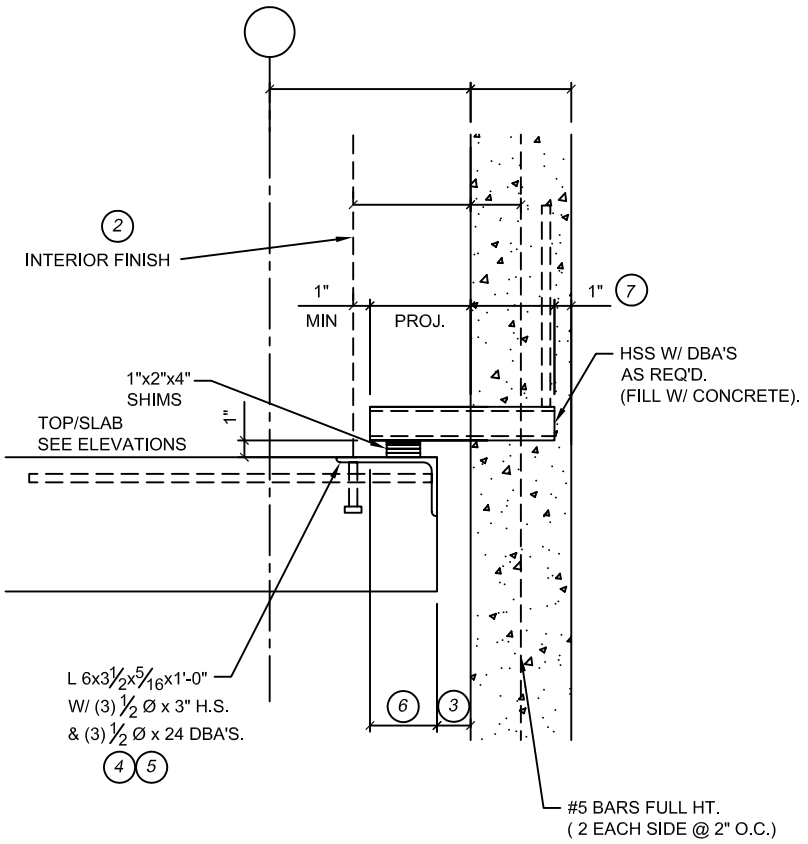
LOADS RESISTED:
- VERTICAL.

DESIGN CONSIDERATIONS:
- HORIZ. ANCHORS ARE SHOT ON VERT. LEG OF EMBED VS. WELDED TO HORIZ. LEG IN ORDER TO BE MORE COST EFFECTIVE. THEY PROVIDE BRG. REIN. AND PREVENT BLOCK OF CONCRETE NEAR EDGE OF SLAB FROM "SLOUGHING" OFF. VERT. STUDS ALONE DO NOTHING IN TERMS OF INCREASING BRG. CAP. OF SLAB, EXCEPT SPREADING BRG. STRESSES OVER LARGER AREA THAN SHIM STACK; BRG. FAILURES DUE TO CRUSHING OF CONCRETE, HOWEVER, RARELY OCCUR.
- STUB BEAM MOMENT ARM SHOULD BE LIMITED TO 1'-0".
- PANEL REINFORCING MUST BE DESIGNED TO RESIST INDUCED BENDING MOMENT AND SHOULD EXTEND FULL HEIGHT OF PANEL. ENSURE DEVELOPMENT OF REINFORCING ABOVE AND BELOW STUB BEAM; PROVIDE HOOKED BARS IF REQUIRED. LOCAL FLEXURAL SERVICE STRESSES IN PANEL MUST ALSO BE CHECKED.
- IN GENERAL, IT IS BETTER TO RESIST LATERAL LOADS (IN-PLANE AND/OR OUT-OF-PLANE) BY ADJACENT TIEBACK CONNECTIONS RATHER THAN BY THE STUB BEAM. HOWEVER, IF CONN. IS REQUIRED TO RESIST LATERAL LOADS, A WELD PLATE CAN BE ADDED TO "TIE" STUB BEAM DOWN TO STRUCTURE. VOLUME CHANGE RESTRAINT IN PLANE OF PANEL MUST THEN BE CONSIDERED. STUB BEAM MUST ALSO BE CHECKED TO RESIST TIEBACK REACTION IN ADDITION TO FLEXURE.

ERECTION CONSIDERATIONS:

DETAILING NOTES:
1. IF CONN. IS USED AT ROOF LEVEL, MAKE SURE OVERALL DEPTH OF STUB BEAM + SHIMS + TOLERANCE DOES NOT EXCEED INSULATION THICKNESS.
2. IF CONN. IS USED AT FLOOR LEVEL, MAKE SURE IT IS CONCEALED BY INTERIOR FINISH. PROVIDE 1" MIN CLR. AT END OF STUB BEAM.
3. MAINTAIN 2" MIN. CLR. BETWEEN PANEL AND STRUCTURE.
4. NAIL HOLES REQ'D IN VERT. LEG OF EMBED FOR ATTACHMENT TO FORM.
5. MAKE SURE EMBED ANCHORAGE DOES NOT INTERFERE WITH SLAB REINFORCING.
6. MAINTAIN 4" MINIMUM OVERLAP OF STUB BEAM TO SLAB.
7. MAINTAIN 1" MIN. CLR. AT EMBEDDED END OF STUB BEAM. CHECK REVEAL LOCATIONS ON PANEL FACE.



SECTION

SCALE 1" = 1'-0"

STUB BEAM BEARING CONNECTION

ARCHITECTURAL

LOAD TO SLAB

10-25-05

AD-14