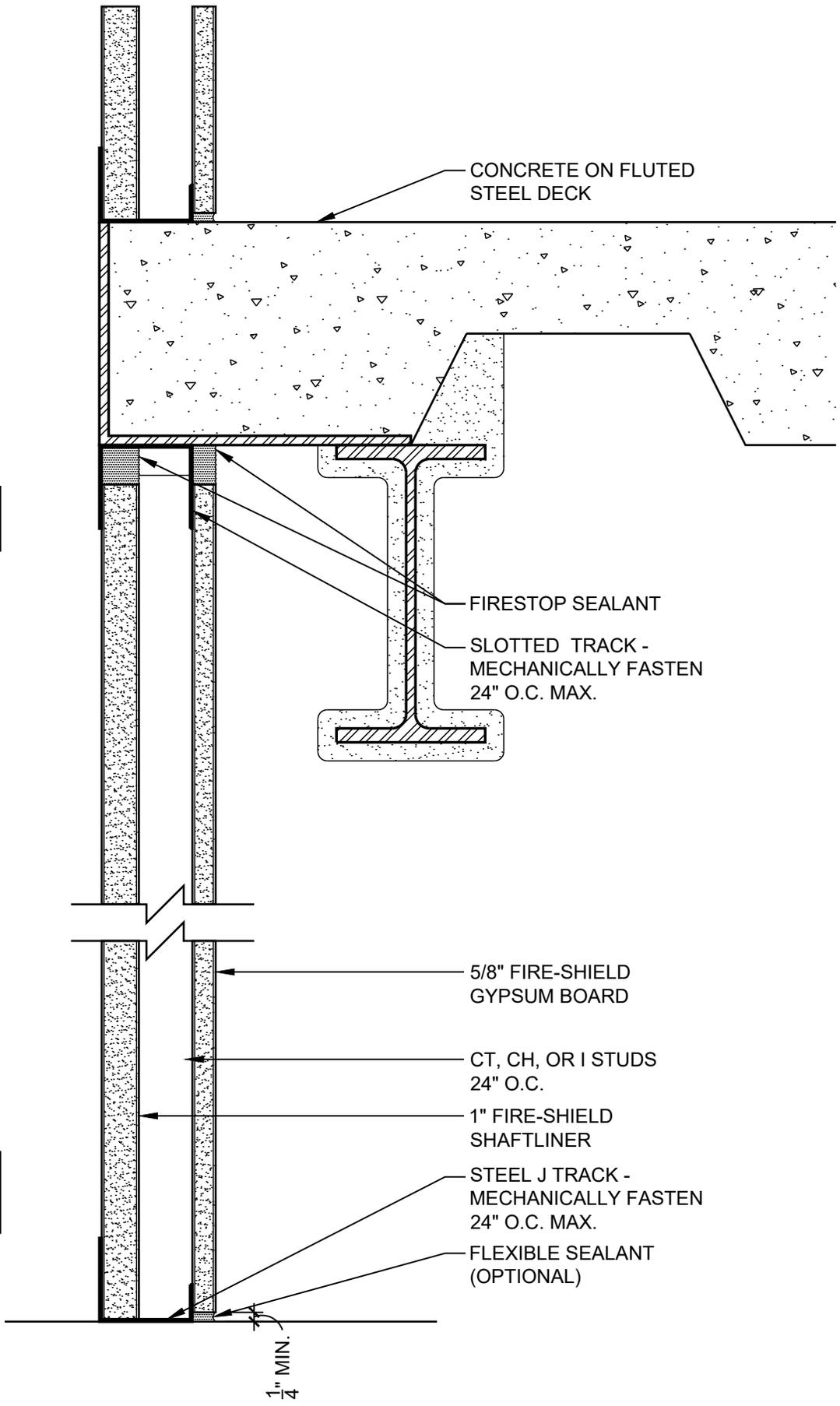


HEAD OF WALL - 1 HR
UL DESIGN: HW-D-0194

PARTITION - 1 HR
UL DESIGN: U499
UL DESIGN: W419



CONCRETE ON FLUTED STEEL DECK

FIRESTOP SEALANT

SLOTTED TRACK - MECHANICALLY FASTEN 24" O.C. MAX.

5/8" FIRE-SHIELD GYPSUM BOARD

CT, CH, OR I STUDS 24" O.C.

1" FIRE-SHIELD SHAFTLINER

STEEL J TRACK - MECHANICALLY FASTEN 24" O.C. MAX.

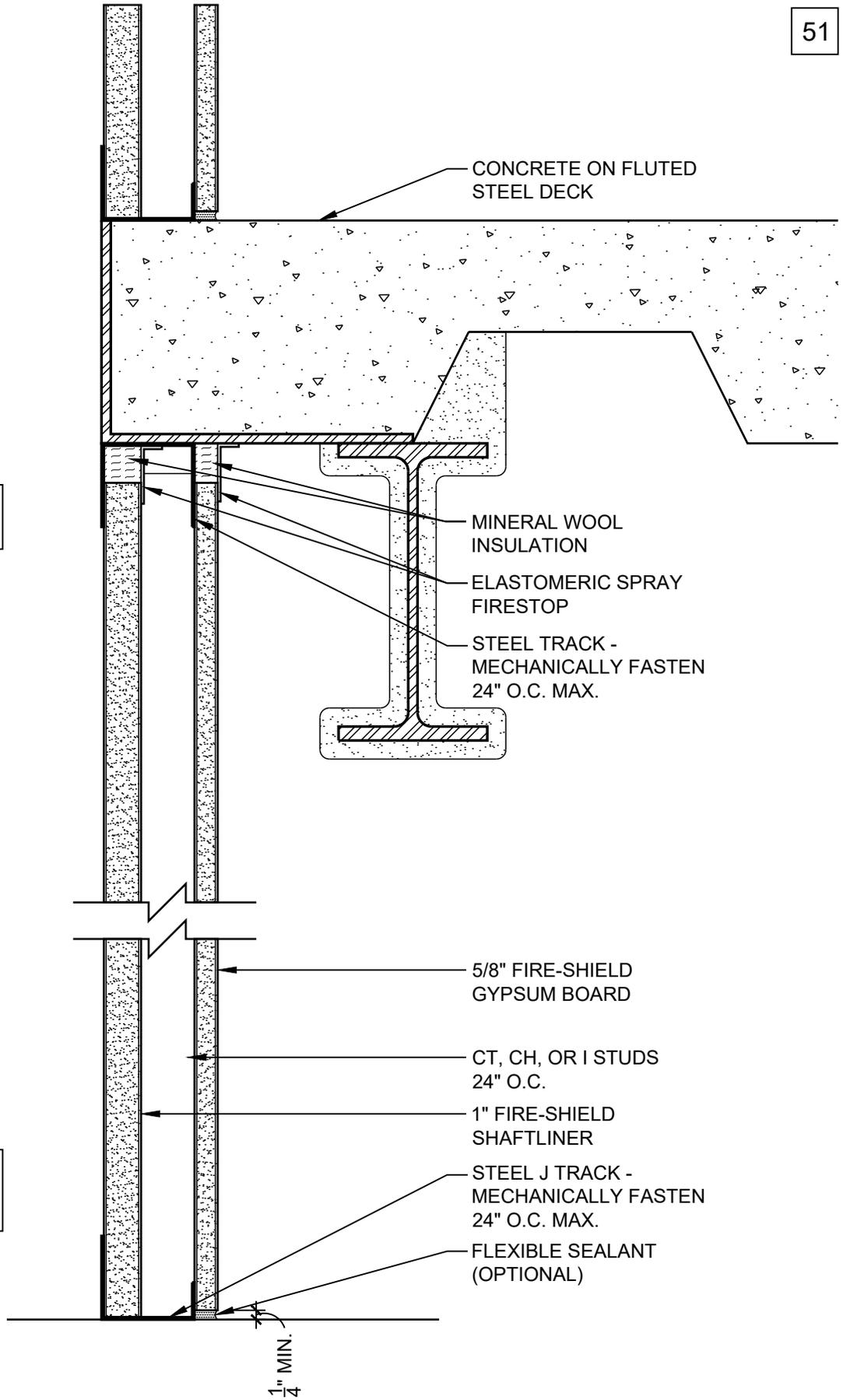
FLEXIBLE SEALANT (OPTIONAL)

1/4" MIN.

DATE: 09/01/18	1 HOUR SHAFTWALL WITH DEFLECTION TRACK	
SCALE: 3"=1'-0"	DETAIL: SW 102	

HEAD OF WALL - 1 HR
UL DESIGN: HW-D-0572

PARTITION - 1 HR
UL DESIGN: U499
UL DESIGN: W419

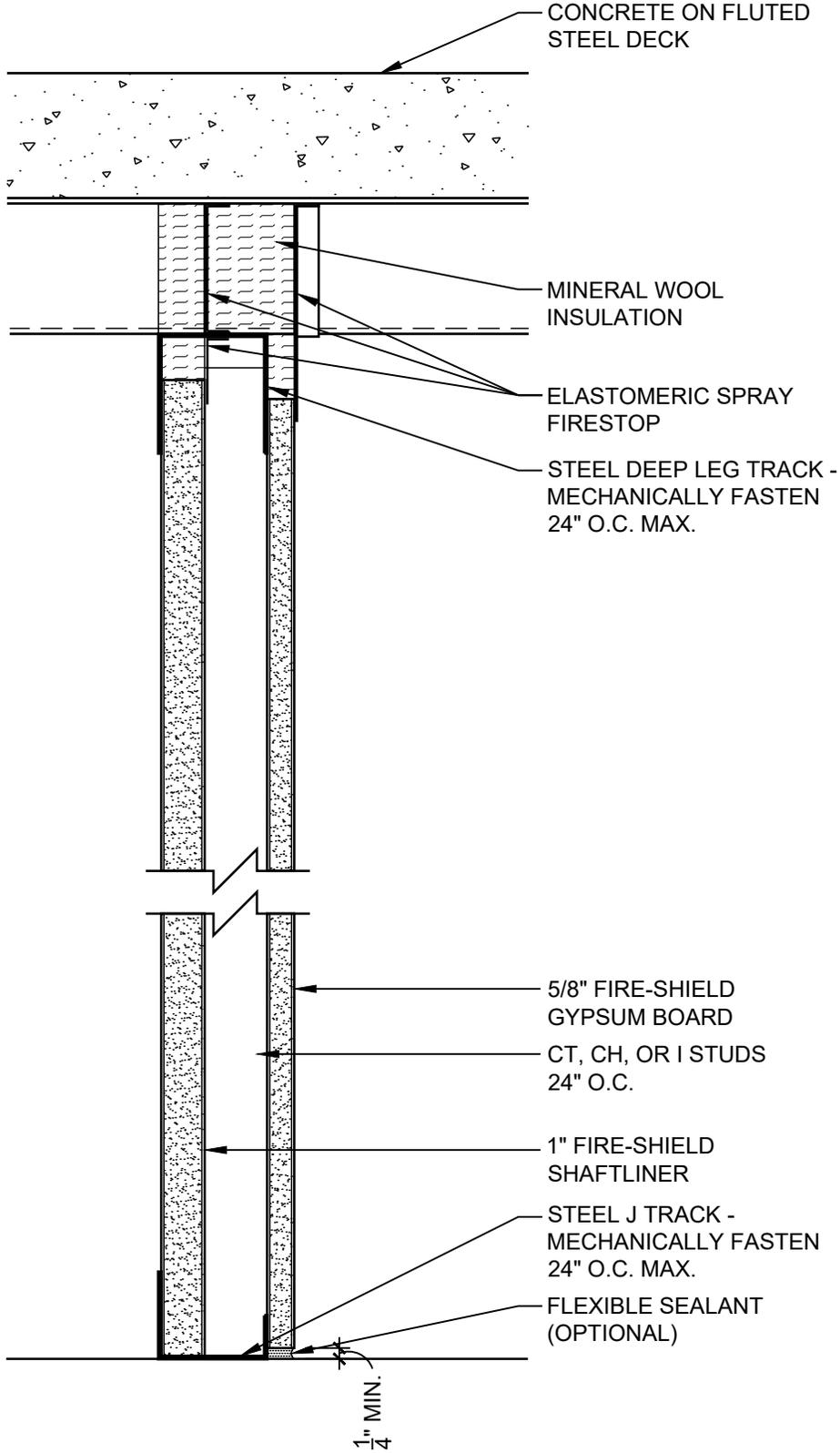


DATE: 09/01/18
SCALE: 3"=1'-0"

1 HOUR SHAFTWALL WITH DEFLECTION TRACK

DETAIL: SW 103





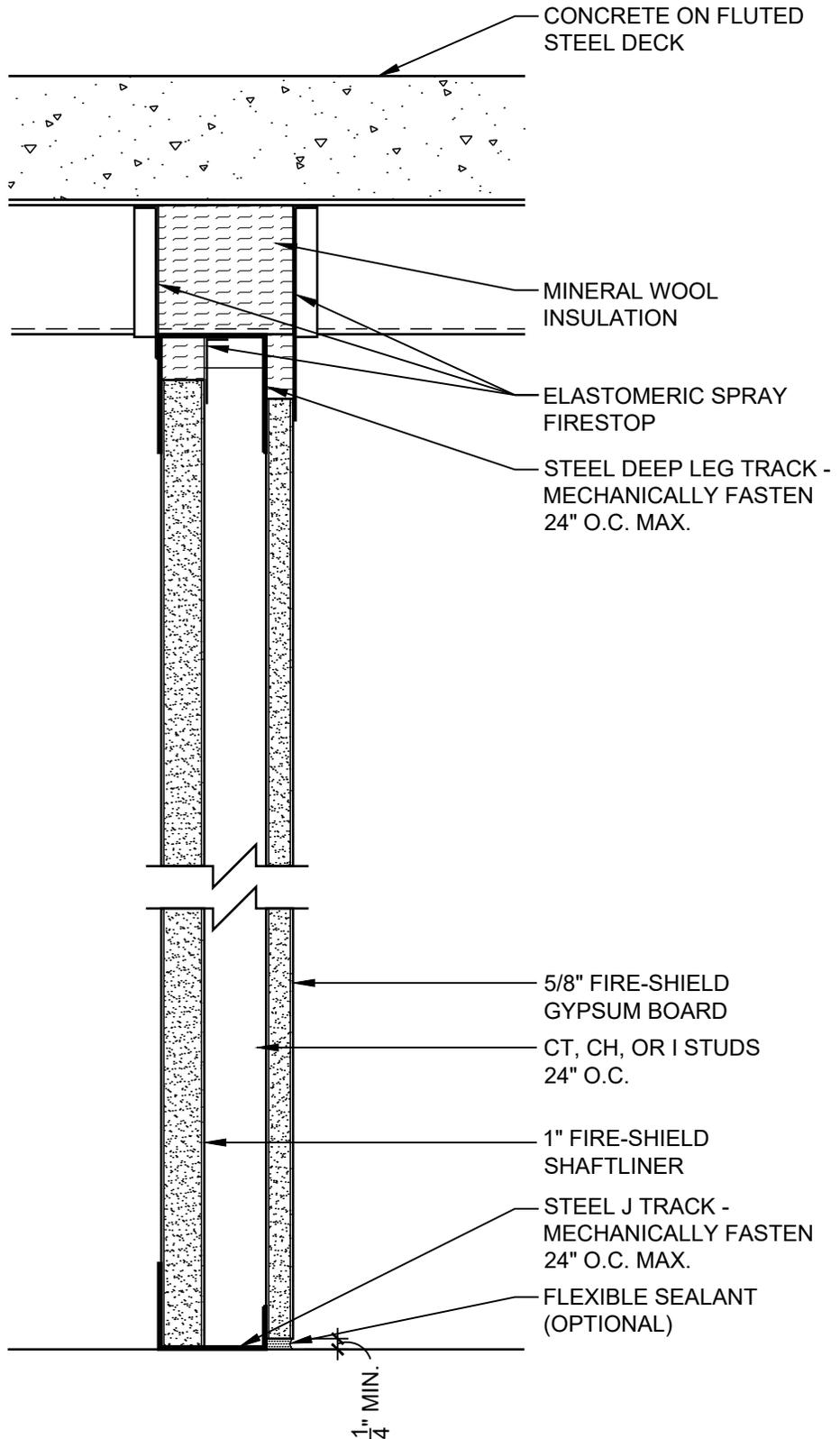
HEAD OF WALL - 1 HR
UL DESIGN: HW-D-0548

PARTITION - 1 HR
UL DESIGN: U499
UL DESIGN: W419

DATE: 09/01/18	1 HOUR SHAFTWALL TO STEEL DECK	
SCALE: 3"=1'-0"		

HEAD OF WALL - 1 HR
UL DESIGN: HW-D-0569

PARTITION - 1 HR
UL DESIGN: U499
UL DESIGN: W419



DATE: 09/01/18
SCALE: 3"=1'-0"

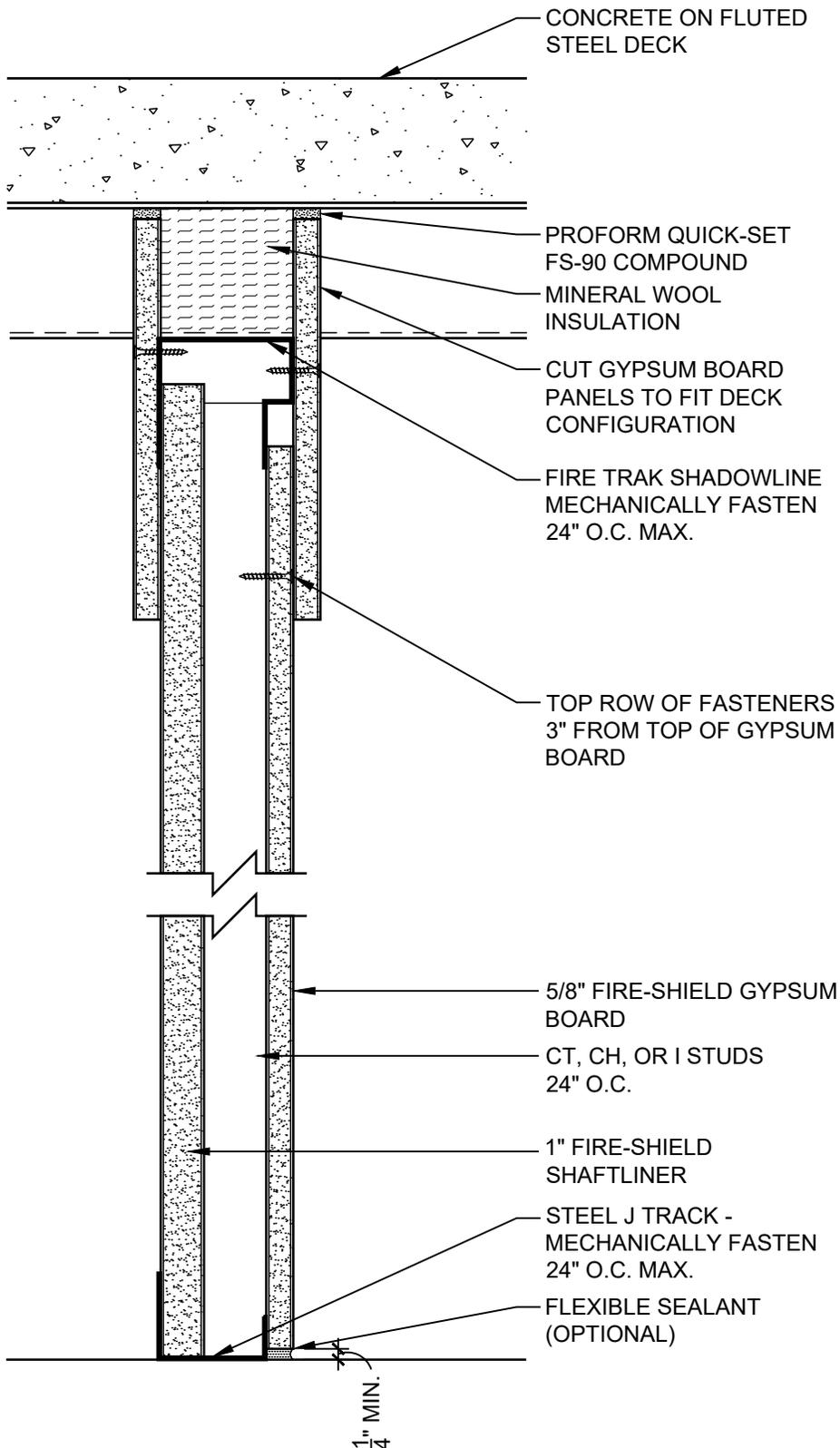
1 HOUR SHAFTWALL TO STEEL DECK

DETAIL: SW 105



HEAD OF WALL - 1 HR
UL DESIGN: HW-D-0119

PARTITION - 1 HR
UL DESIGN: U499
UL DESIGN: W419



DATE: 09/01/18
SCALE: 3"=1'-0"

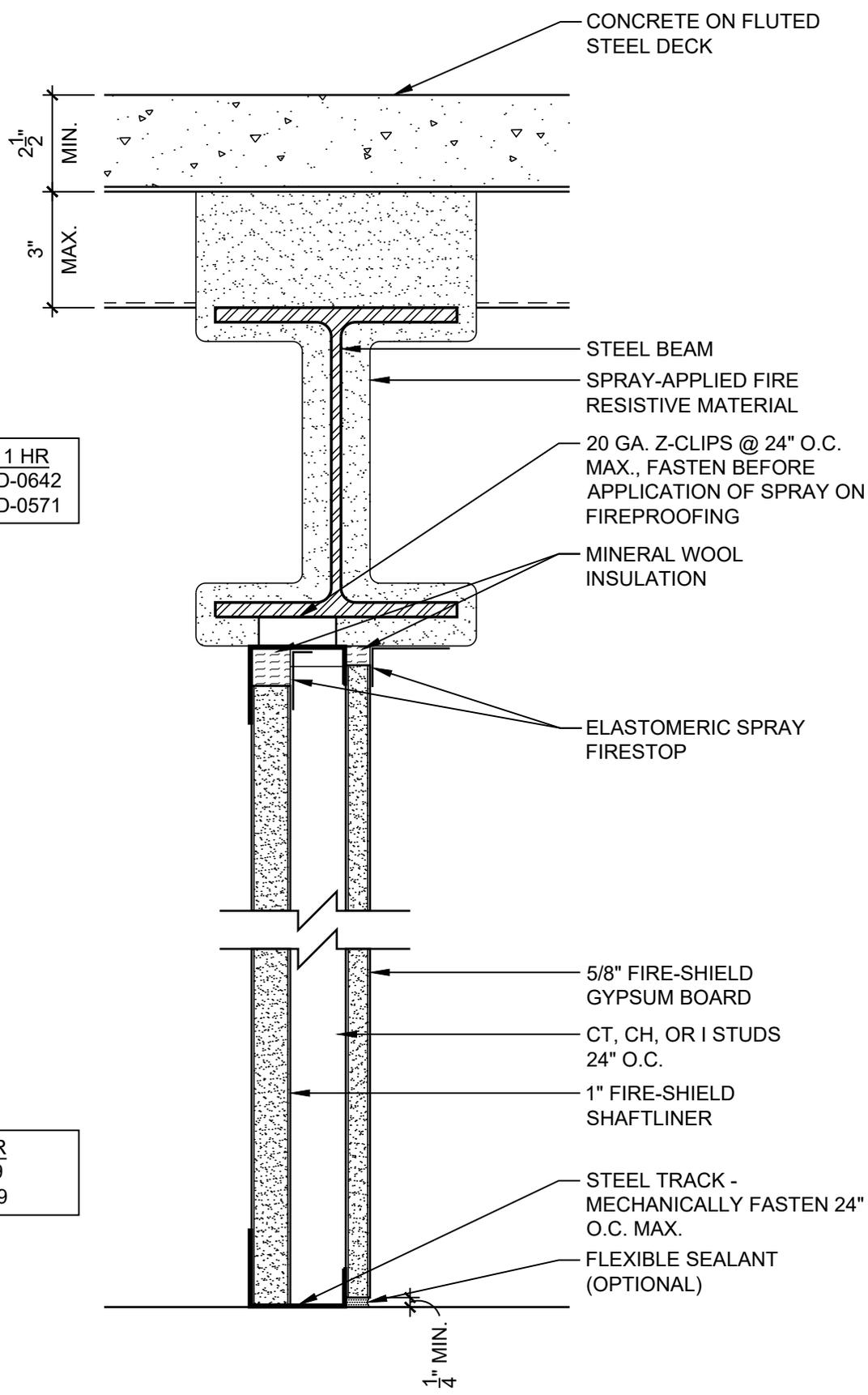
1 HOUR SHAFTWALL WITH DEFLECTION TRACK

DETAIL: SW 106



HEAD OF WALL - 1 HR
 UL DESIGN: HW-D-0642
 UL DESIGN: HW-D-0571

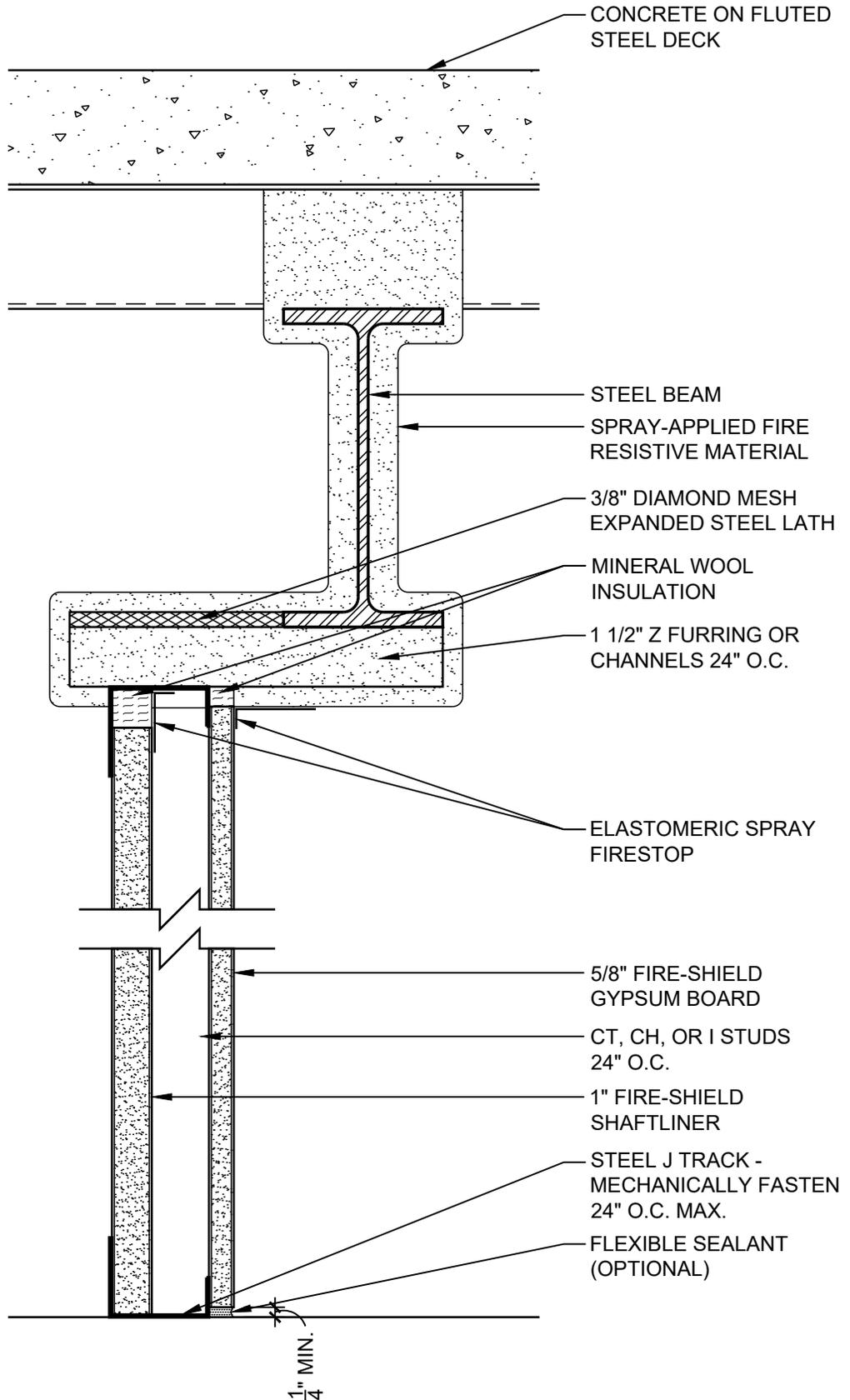
PARTITION - 1 HR
 UL DESIGN: U499
 UL DESIGN: W419



DATE: 09/01/18	1 HOUR SHAFTWALL PARTITION TO STEEL BEAM	
SCALE: 3"=1'-0"	DETAIL: SW 107	

HEAD OF WALL - 1 HR
 UL DESIGN: HW-D-0645
 UL DESIGN: HW-D-0636

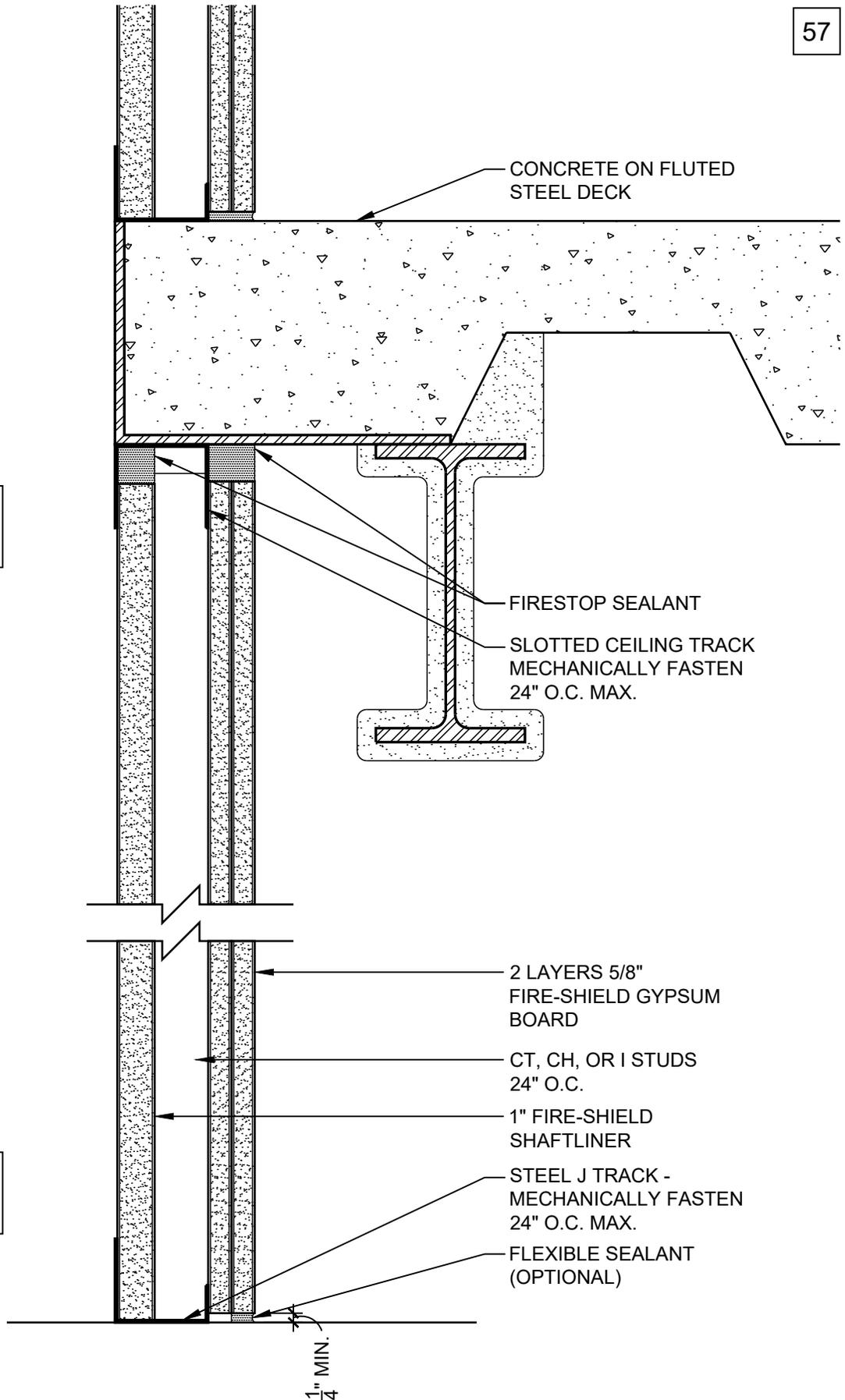
PARTITION - 1 HR
 UL DESIGN: U499
 UL DESIGN: W419



DATE: 09/01/18	1 HOUR SHAFTWALL PARTITION OFFSET FROM BEAM	
SCALE: 3"=1'-0"	DETAIL: SW 108	

HEAD OF WALL - 2 HR
UL DESIGN: HW-D-0194
UL DESIGN: HW-D-0342

PARTITION - 2 HR
UL DESIGN: U497
UL DESIGN: W419

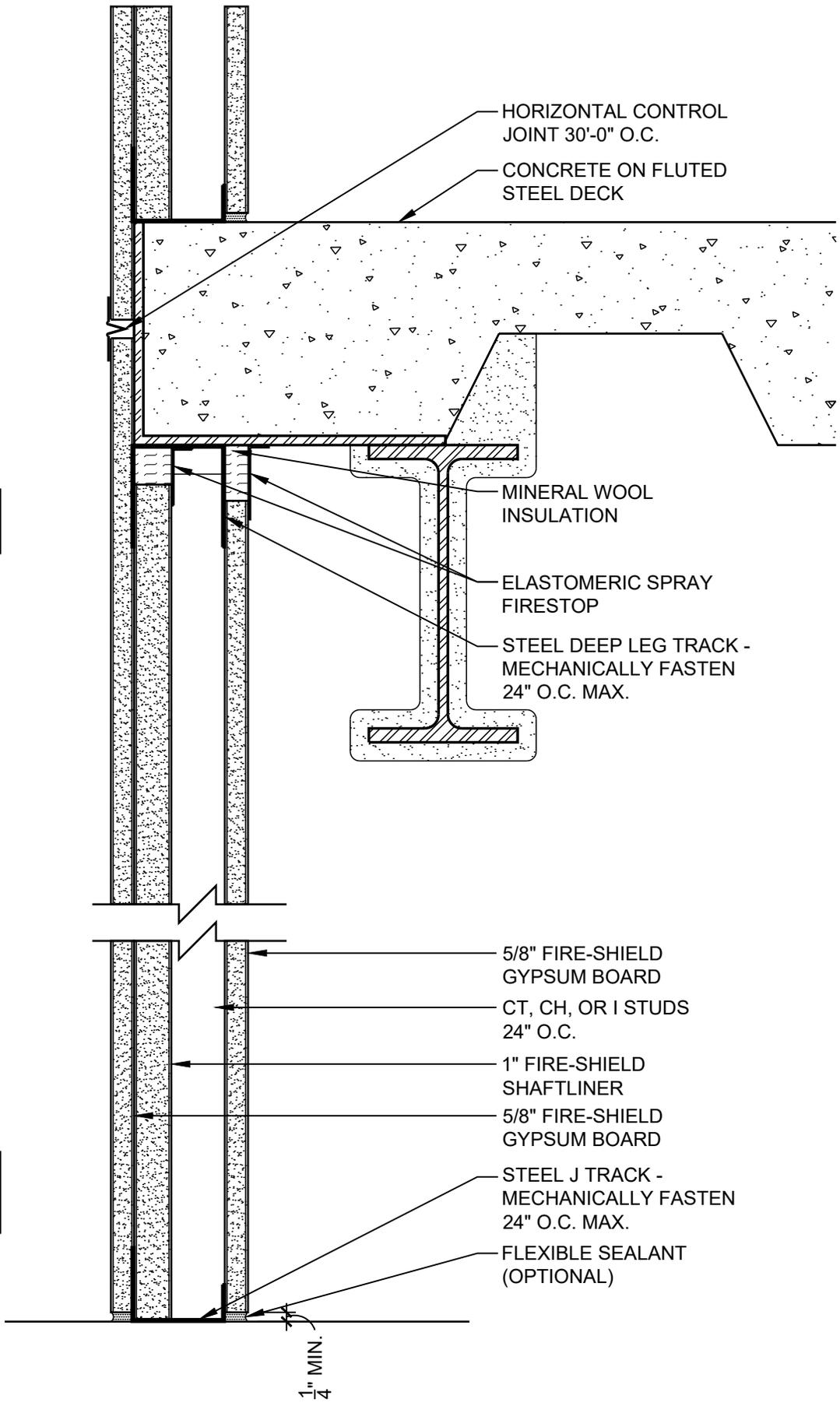


DATE: 09/01/18
SCALE: 3"=1'-0"

2 HOUR SHAFTWALL WITH DEFLECTION TRACK

DETAIL: SW 203





HEAD OF WALL - 2 HR
UL DESIGN: HW-D-0548

PARTITION - 2 HR
UL DESIGN: U498
UL DESIGN: W419

HORIZONTAL CONTROL JOINT 30'-0" O.C.
CONCRETE ON FLUTED STEEL DECK

MINERAL WOOL INSULATION
ELASTOMERIC SPRAY FIRESTOP
STEEL DEEP LEG TRACK - MECHANICALLY FASTEN 24" O.C. MAX.

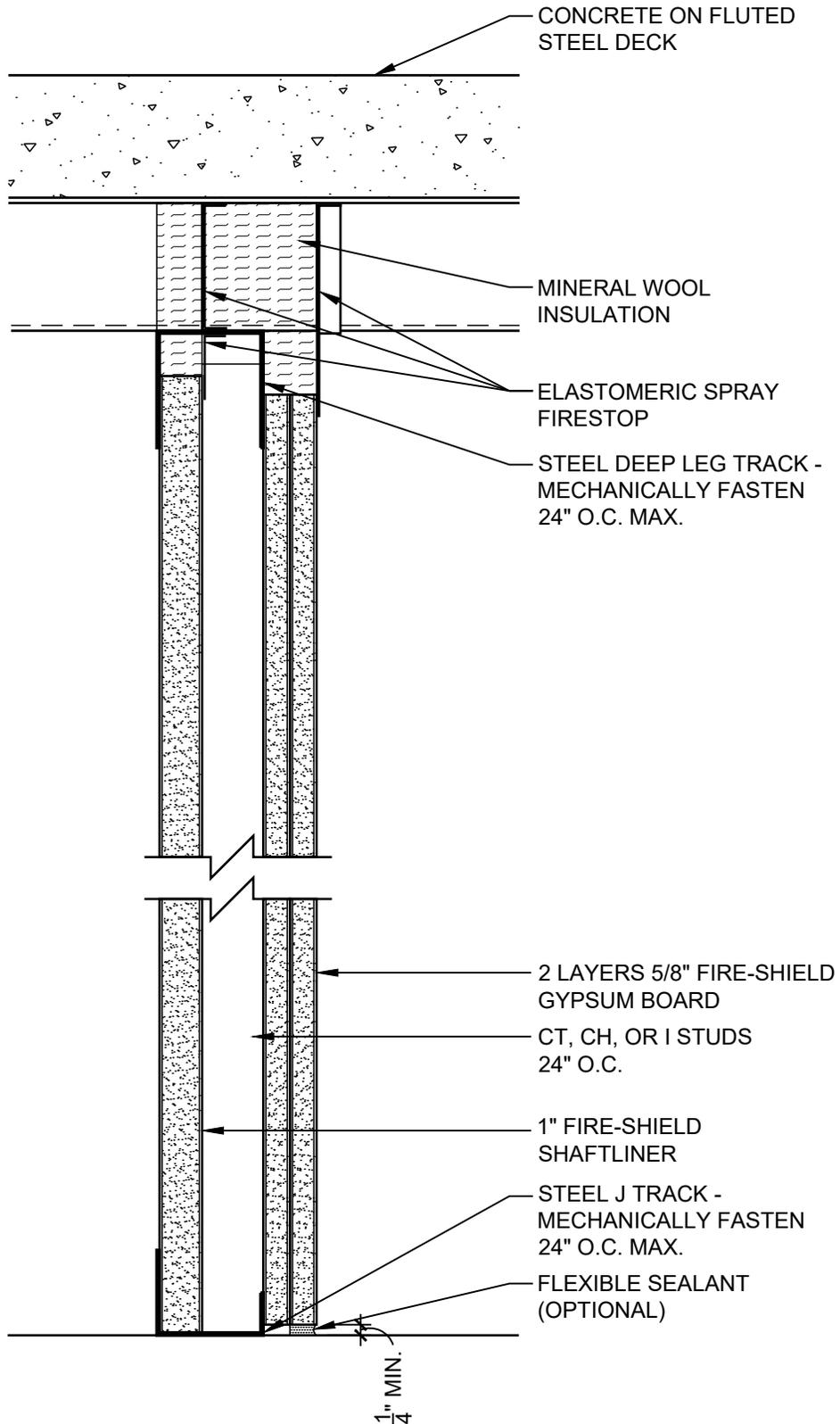
5/8" FIRE-SHIELD GYPSUM BOARD
CT, CH, OR I STUDS 24" O.C.
1" FIRE-SHIELD SHAFTLINER
5/8" FIRE-SHIELD GYPSUM BOARD
STEEL J TRACK - MECHANICALLY FASTEN 24" O.C. MAX.
FLEXIBLE SEALANT (OPTIONAL)

1/4" MIN.

DATE: 09/01/18	2 HOUR SHAFTWALL PARTITION AT STAIR	
SCALE: 3"=1'-0"		

HEAD OF WALL - 2 HR
UL DESIGN: HW-D-0548

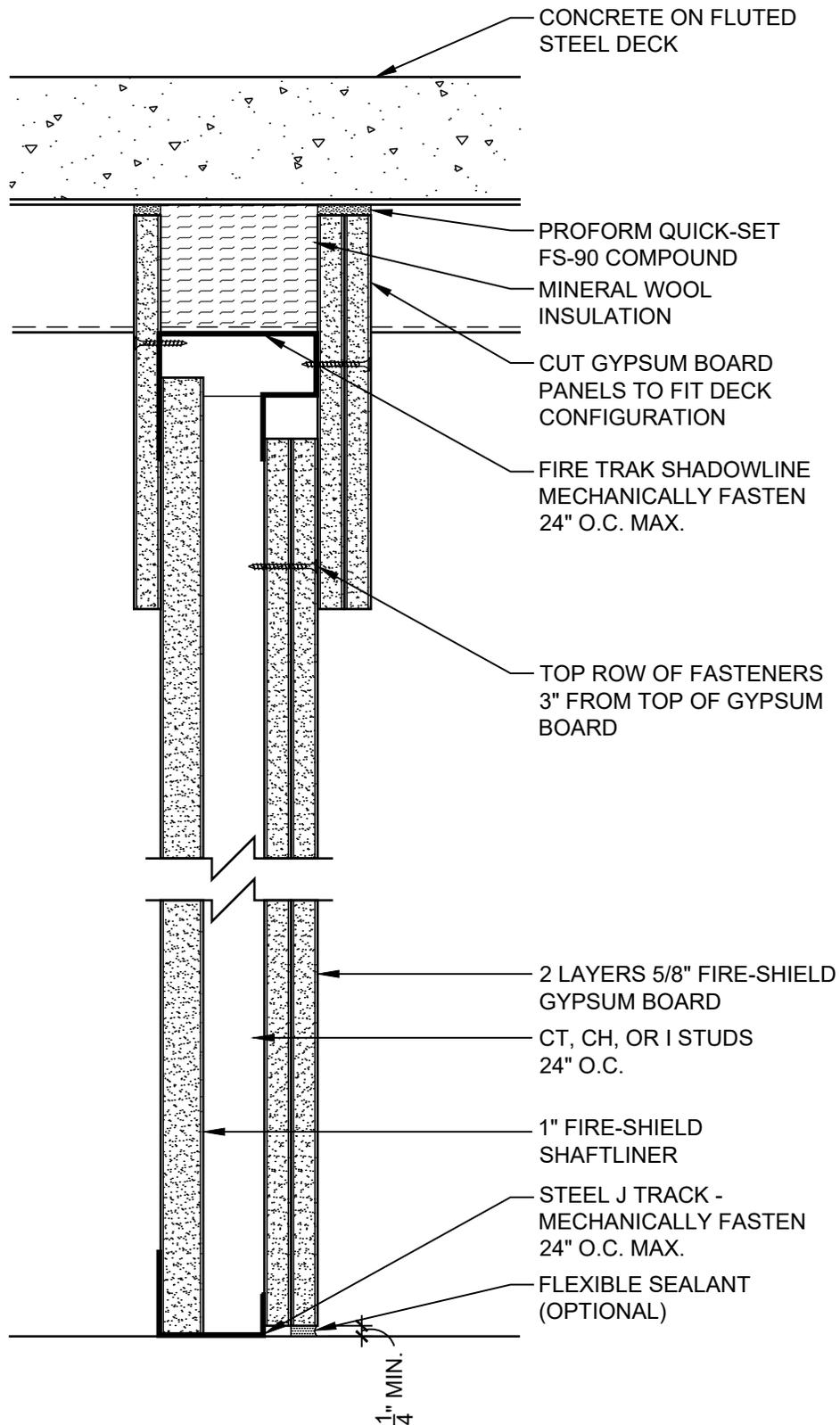
PARTITION - 2 HR
UL DESIGN: U497
UL DESIGN: W419



DATE: 09/01/18
SCALE: 3"=1'-0"

2 HOUR SHAFTWALL TO STEEL DECK
DETAIL: SW 205





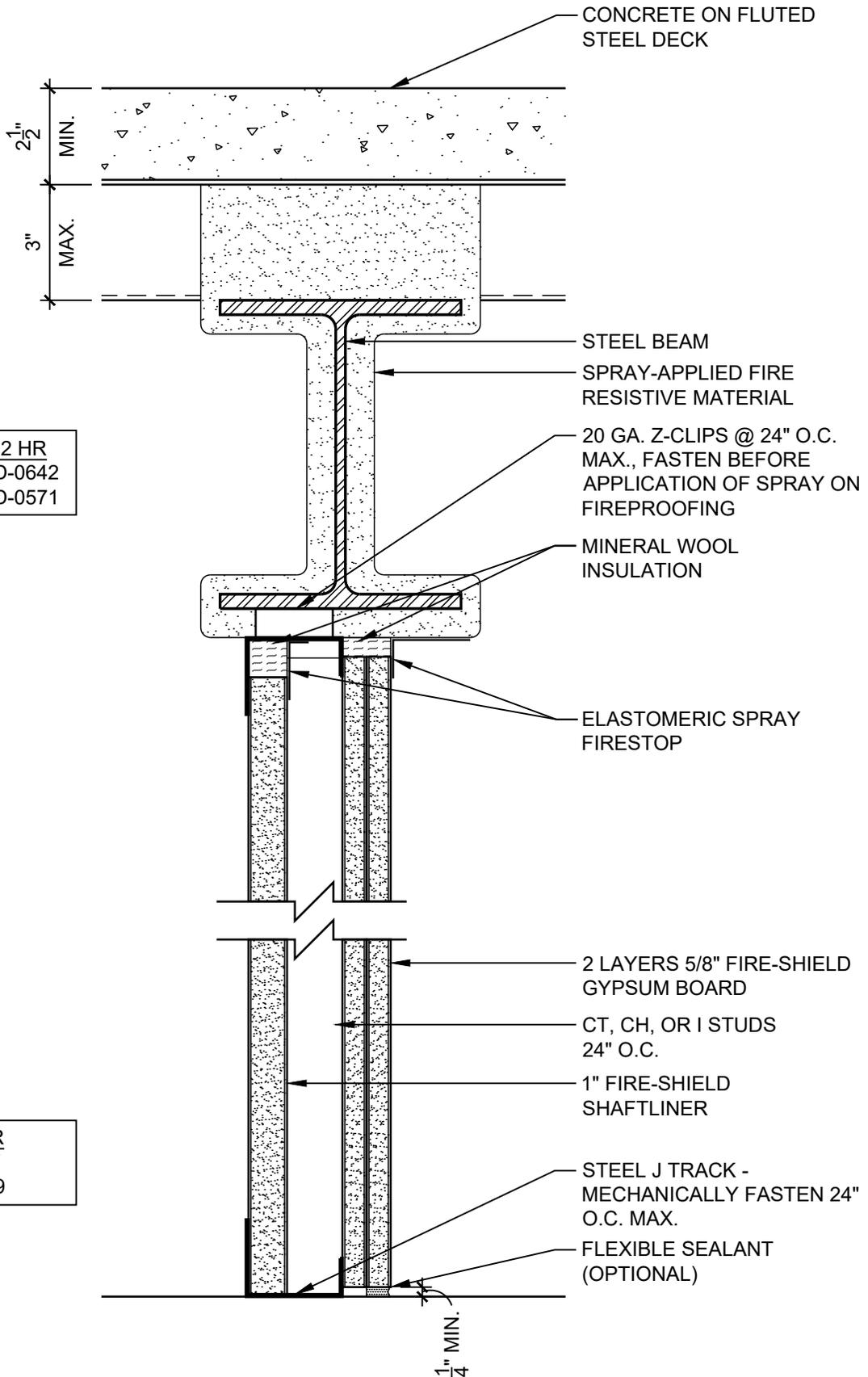
HEAD OF WALL - 2 HR
UL DESIGN: HW-D-0119

PARTITION - 2 HR
UL DESIGN: U497
UL DESIGN: W419

DATE: 09/01/18	2 HOUR SHAFTWALL WITH DEFLECTION TRACK	
SCALE: 3"=1'-0"	DETAIL: SW 206	

HEAD OF WALL - 2 HR
 UL DESIGN: HW-D-0642
 UL DESIGN: HW-D-0571

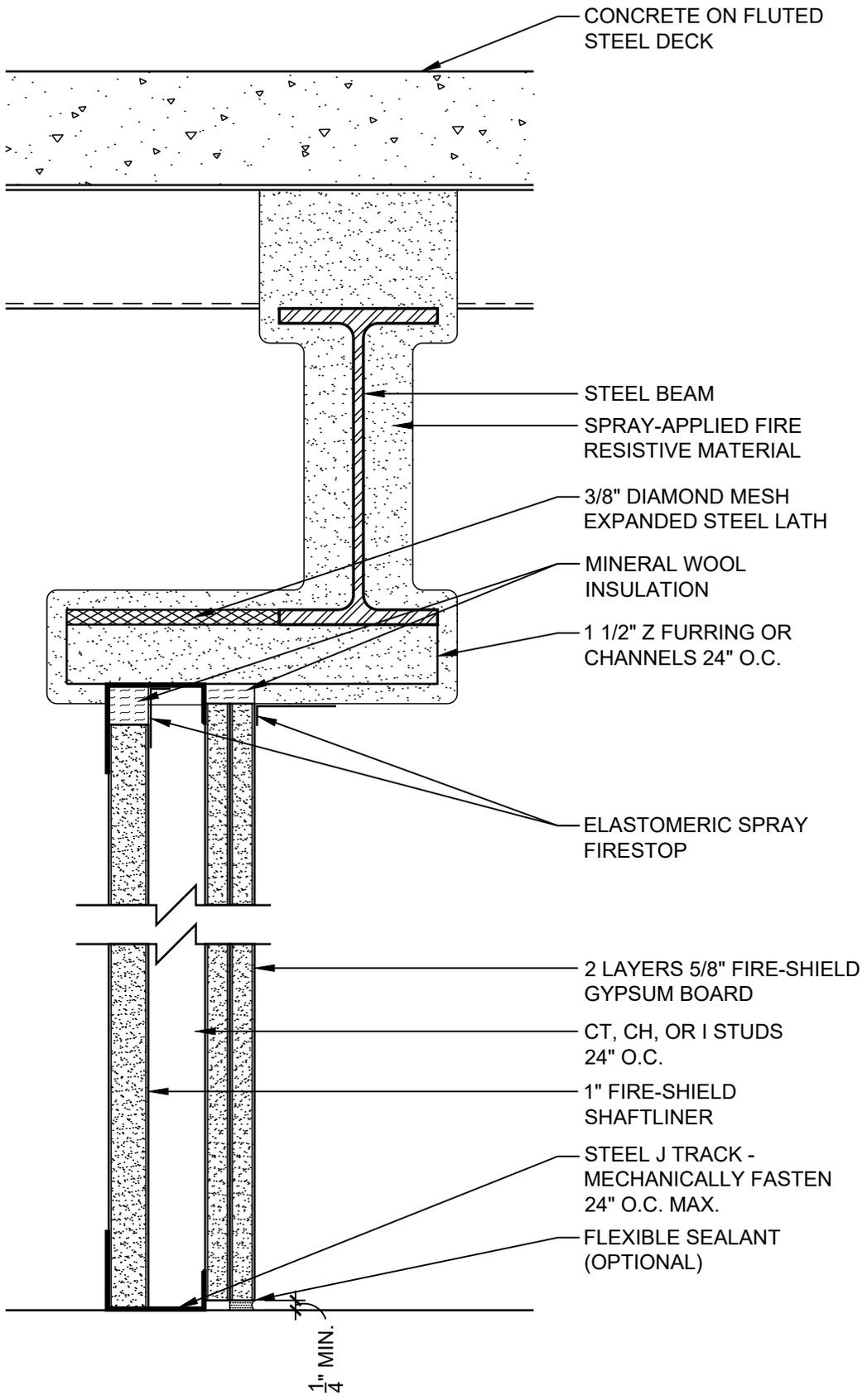
PARTITION - 2 HR
 UL DESIGN: U497
 UL DESIGN: W419



DATE: 09/01/18	2 HOUR SHAFTWALL PARTITION TO STEEL BEAM	
SCALE: 3"=1'-0"	DETAIL: SW 207	

HEAD OF WALL - 2 HR
 UL DESIGN: HW-D-0645
 UL DESIGN: HW-D-0636

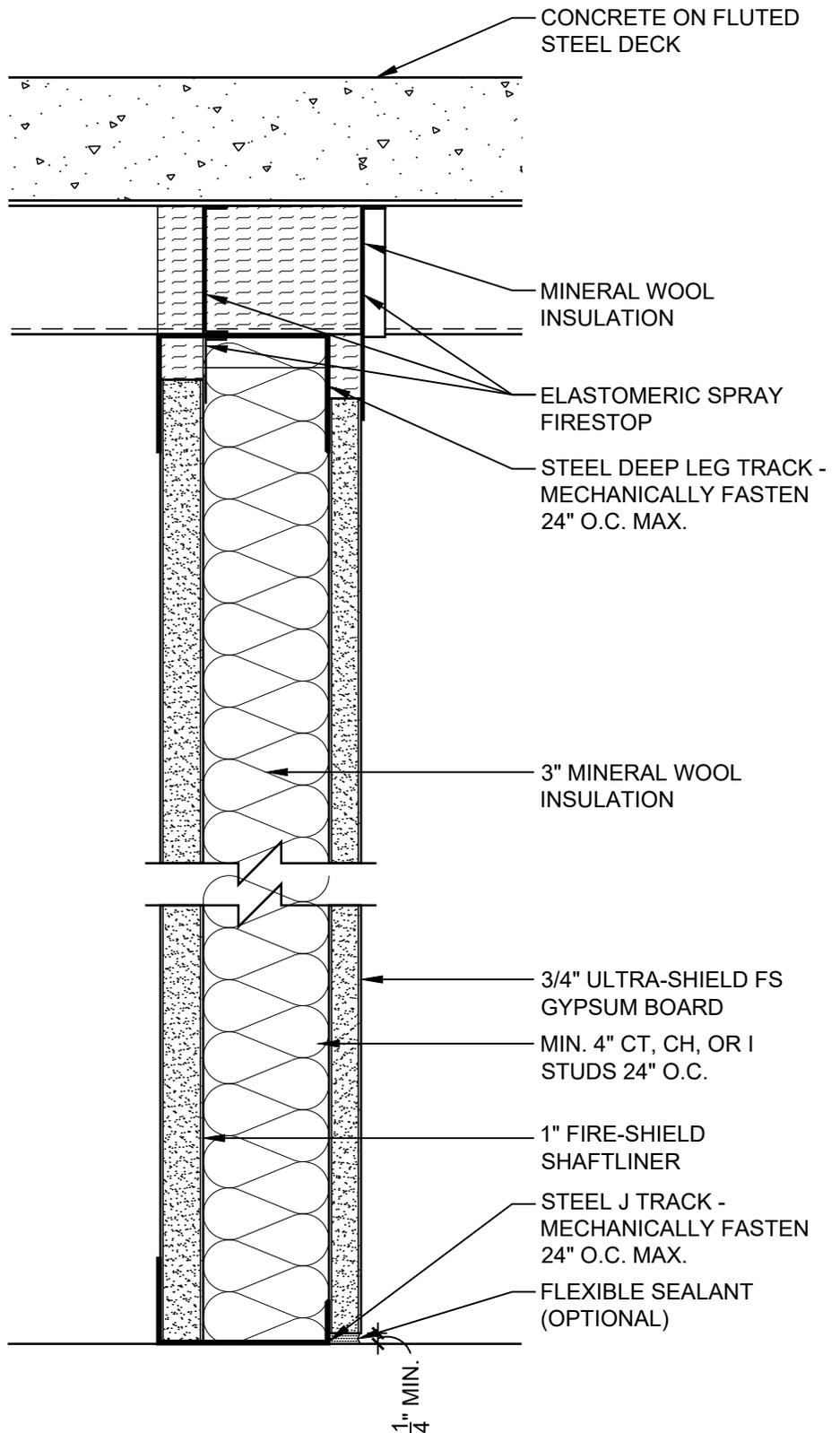
PARTITION - 2 HR
 UL DESIGN: U497
 UL DESIGN: W419



DATE: 09/01/18	2 HOUR SHAFTWALL PARTITION OFFSET FROM BEAM	
SCALE: 3"=1'-0"	DETAIL: SW 208	

HEAD OF WALL - 2 HR
UL DESIGN: HW-D-0548

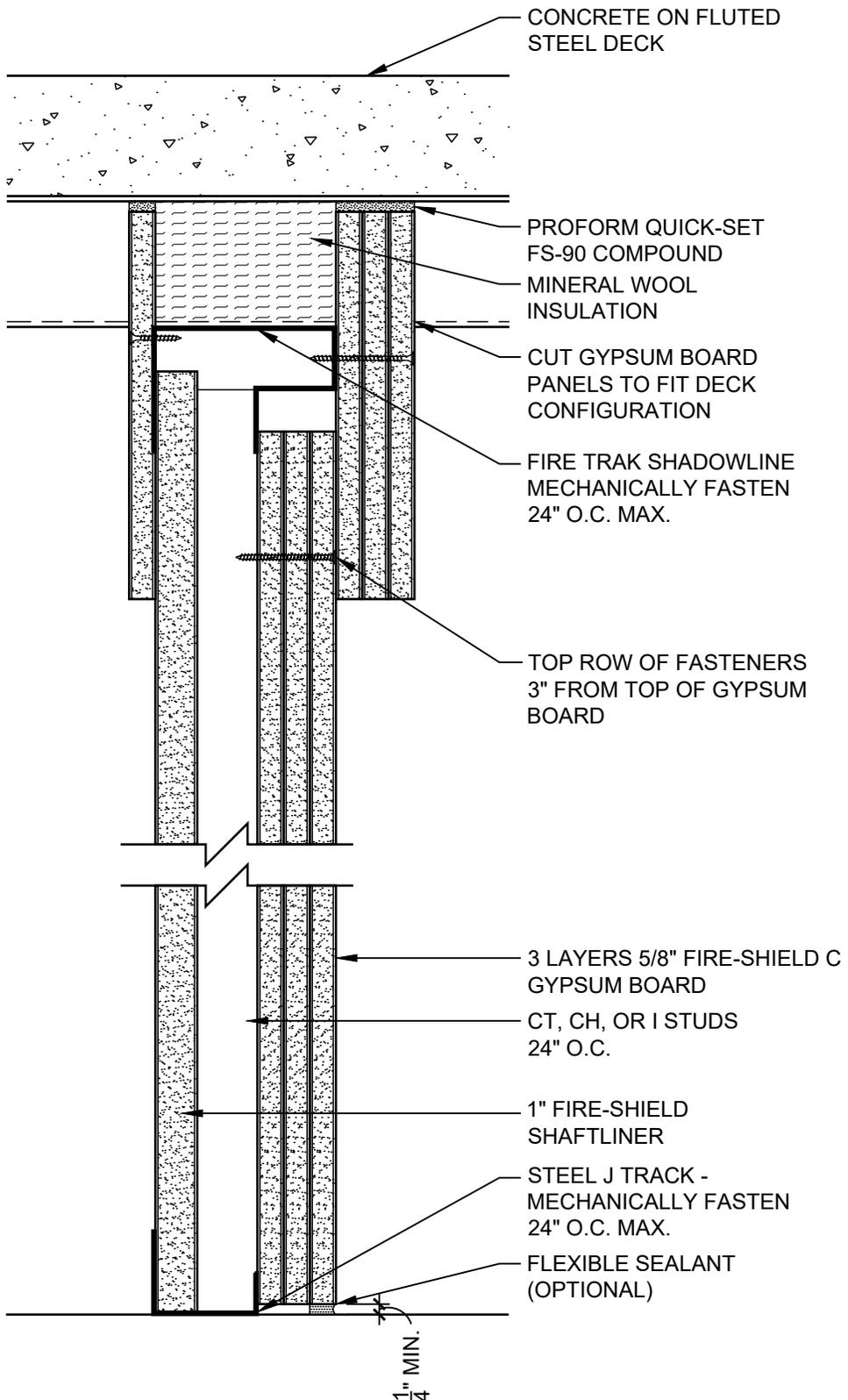
PARTITION - 2 HR
UL DESIGN: W441
UL DESIGN: W419



DATE: 09/01/18	2 HOUR SHAFTWALL TO STEEL DECK	
SCALE: 3"=1'-0"		

HEAD OF WALL - 3 HR
UL DESIGN: HW-D-0119

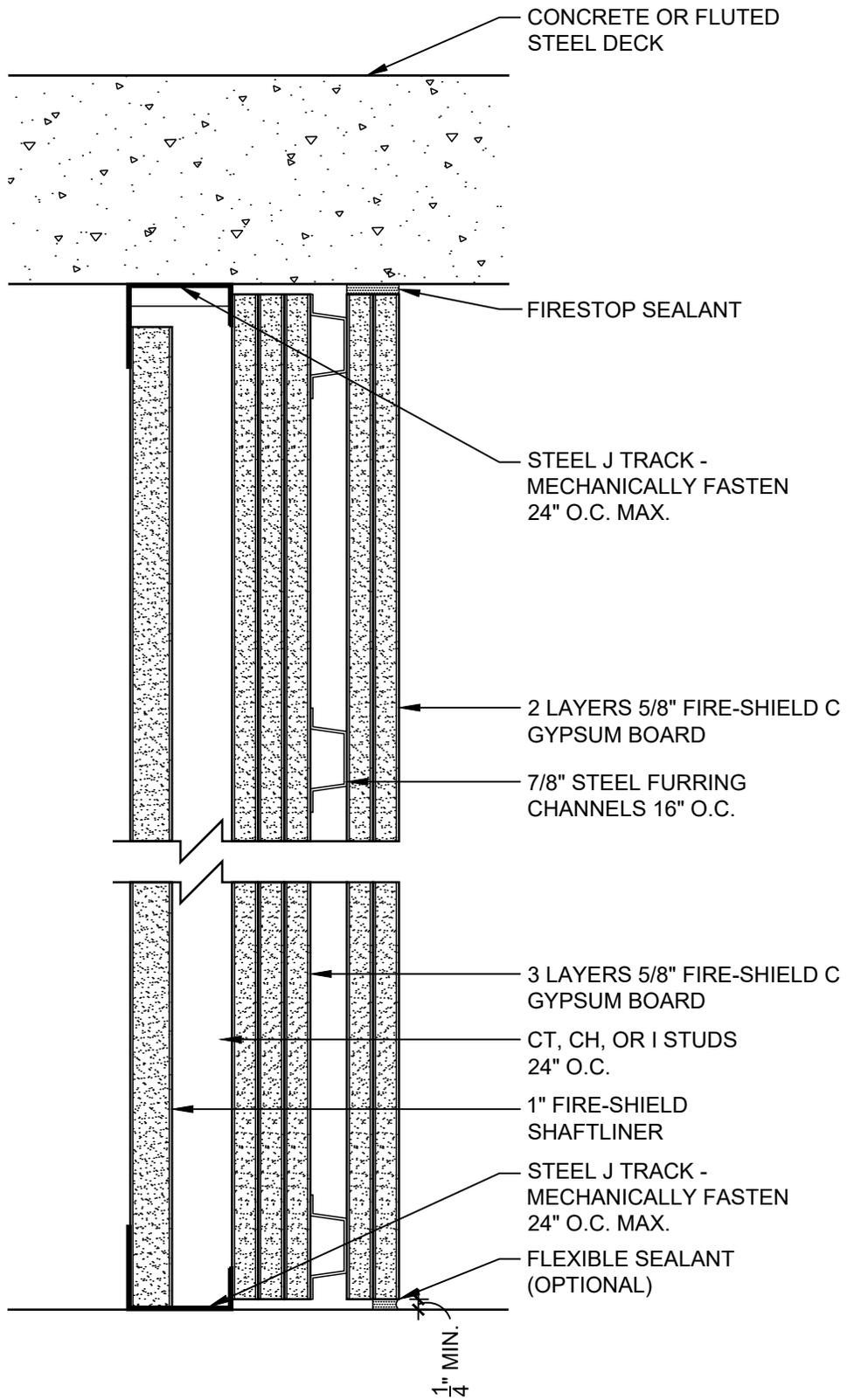
PARTITION - 3 HR
UL DESIGN: W414
UL DESIGN: W419



DATE: 09/01/18
SCALE: 3"=1'-0"

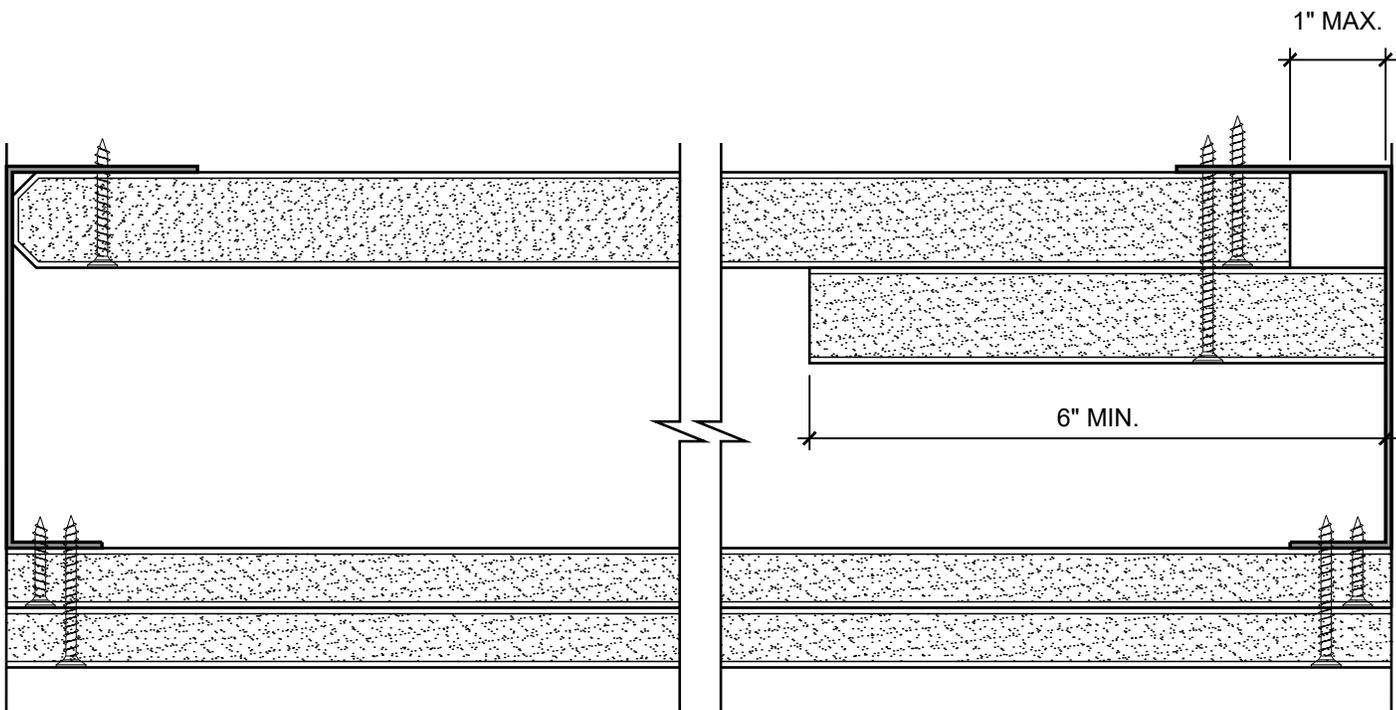
3 HOUR SHAFTWALL WITH DEFLECTION TRACK
DETAIL: SW 301



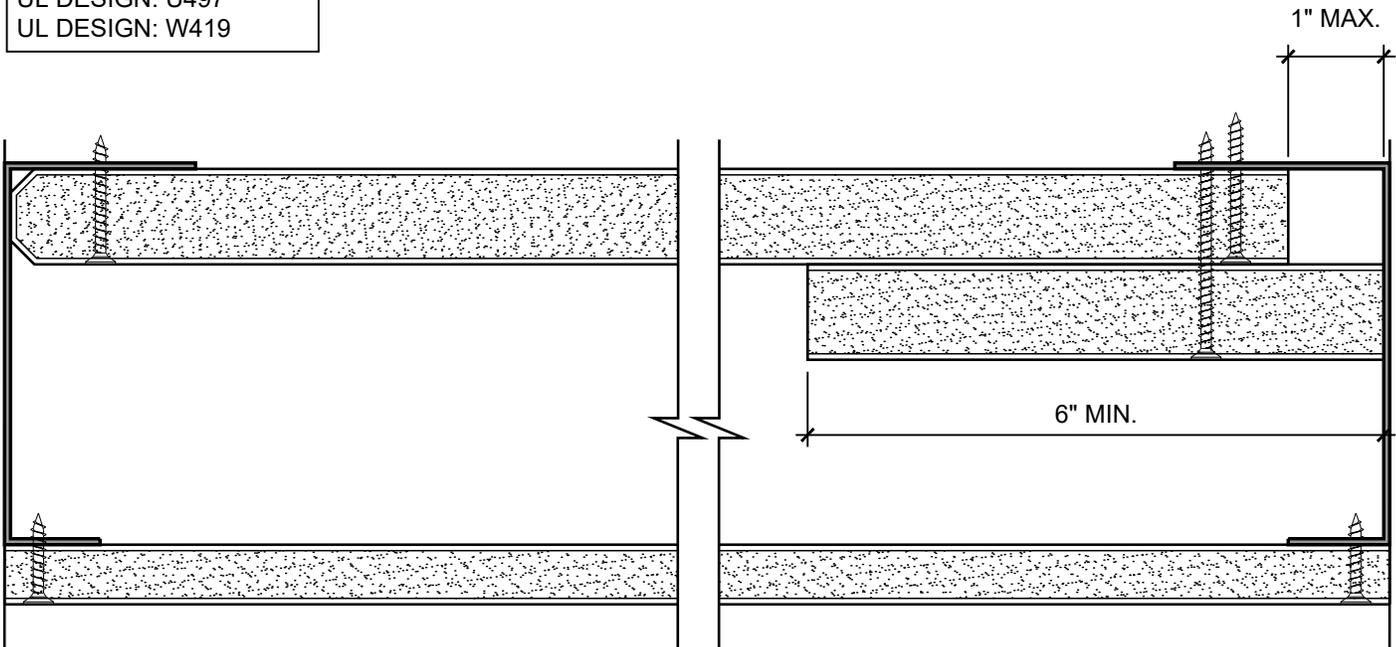


PARTITION - 4 HR
 UL DESIGN: V451
 UL DESIGN: W419

DATE: 09/01/18	4 HOUR SHAFTWALL PARTITION	
SCALE: 3"=1'-0"	DETAIL: SW 401	

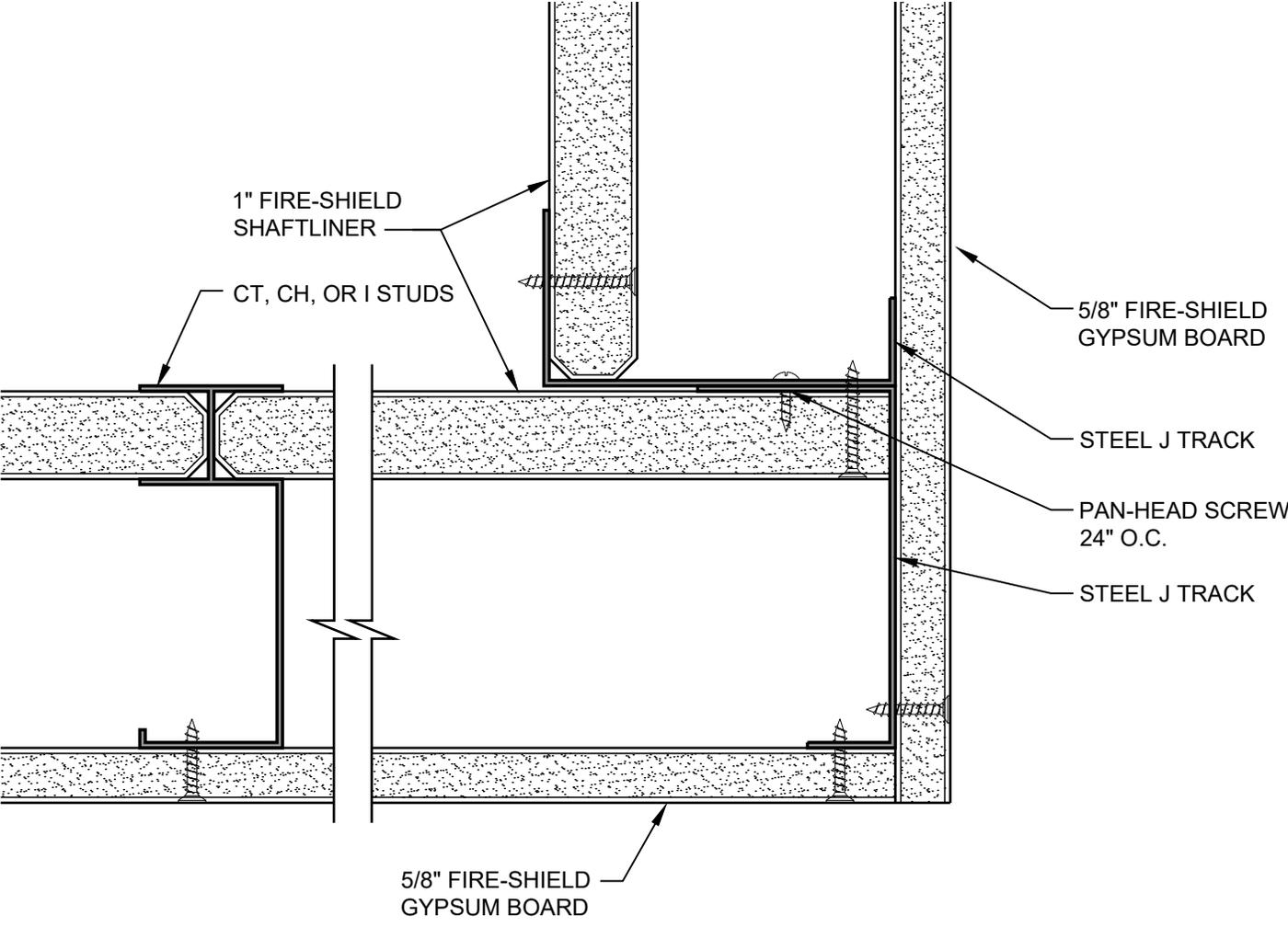


PARTITION - 2 HR
UL DESIGN: U497
UL DESIGN: W419

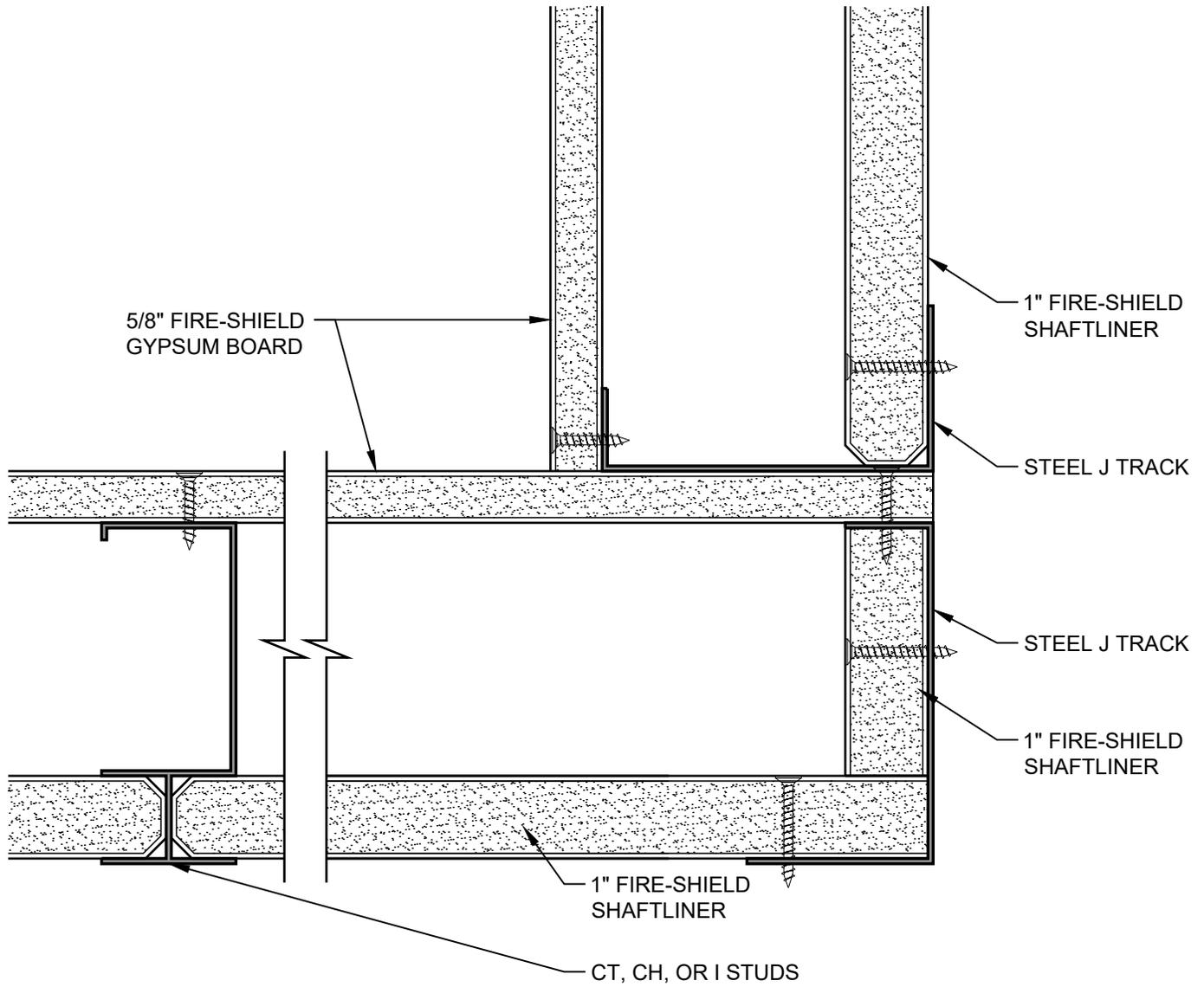


PARTITION - 1 HR
UL DESIGN: U499
UL DESIGN: W419

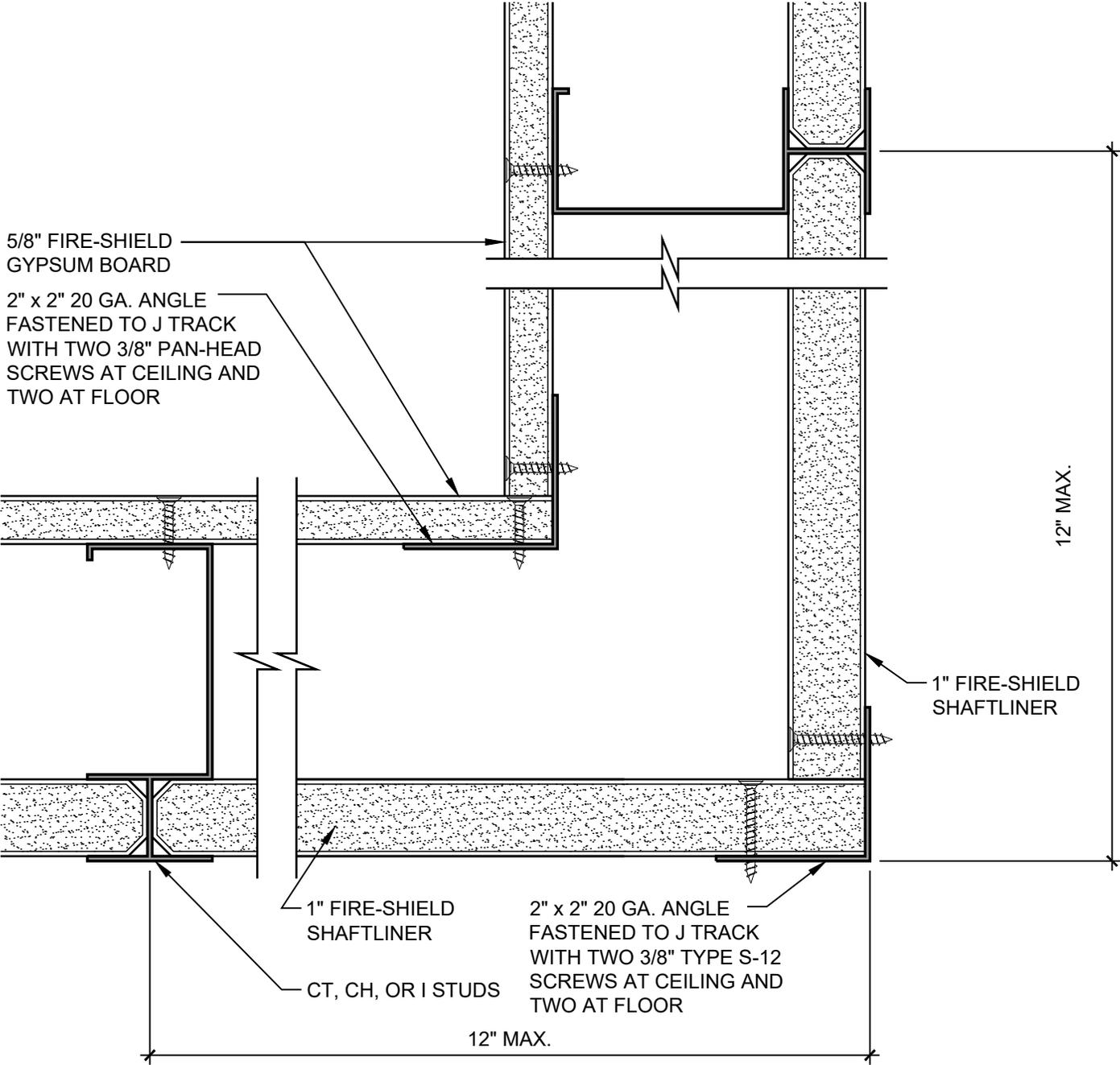
DATE: 09/01/18	SHAFTWALL END CONDITIONS	
SCALE: 6"=1'-0"	DETAIL: SW 601	



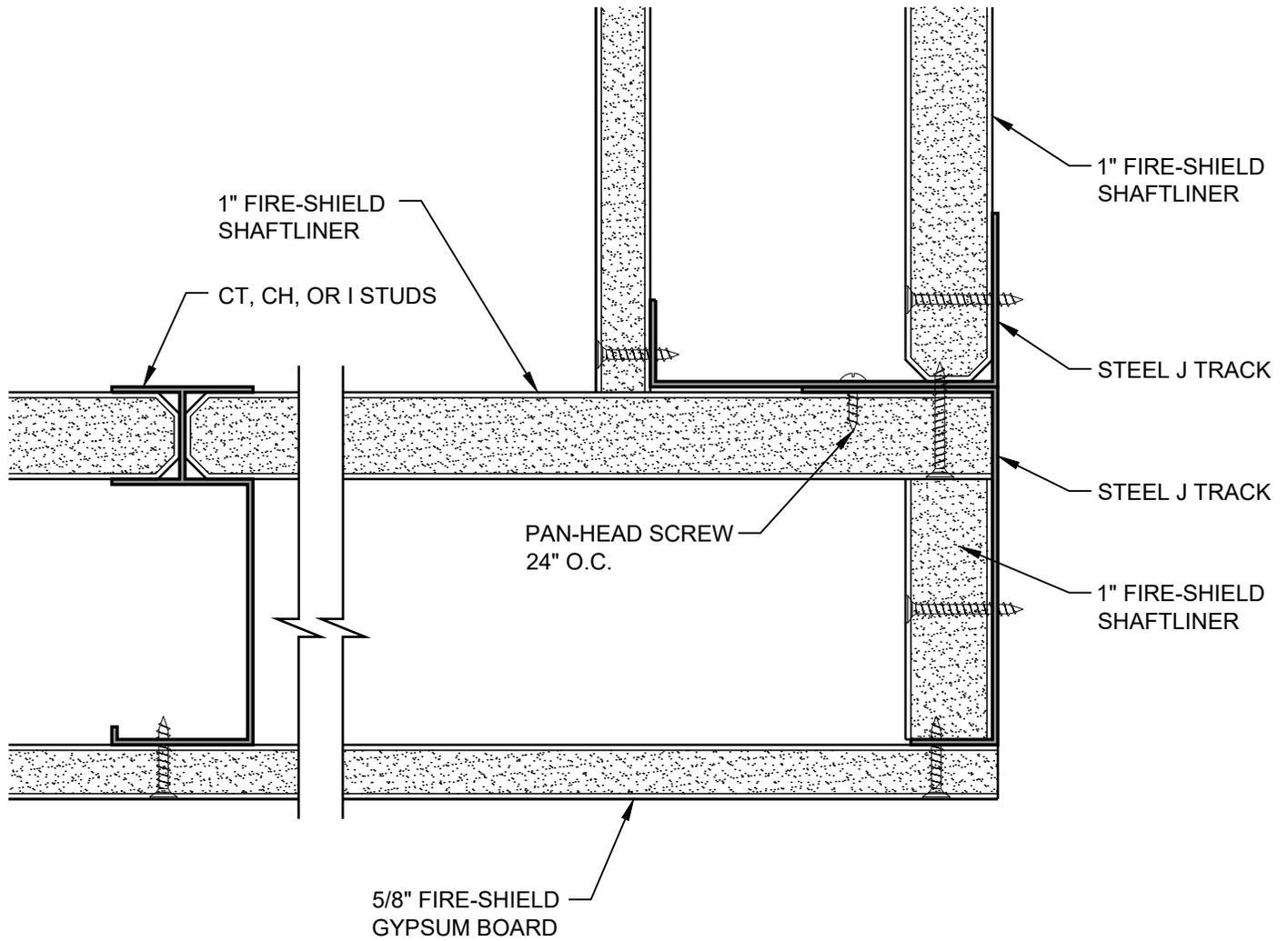
DATE: 09/01/18	1 HOUR SHAFTWALL CORNER DETAIL	
SCALE: 6"=1'-0"	DETAIL: SW 610	



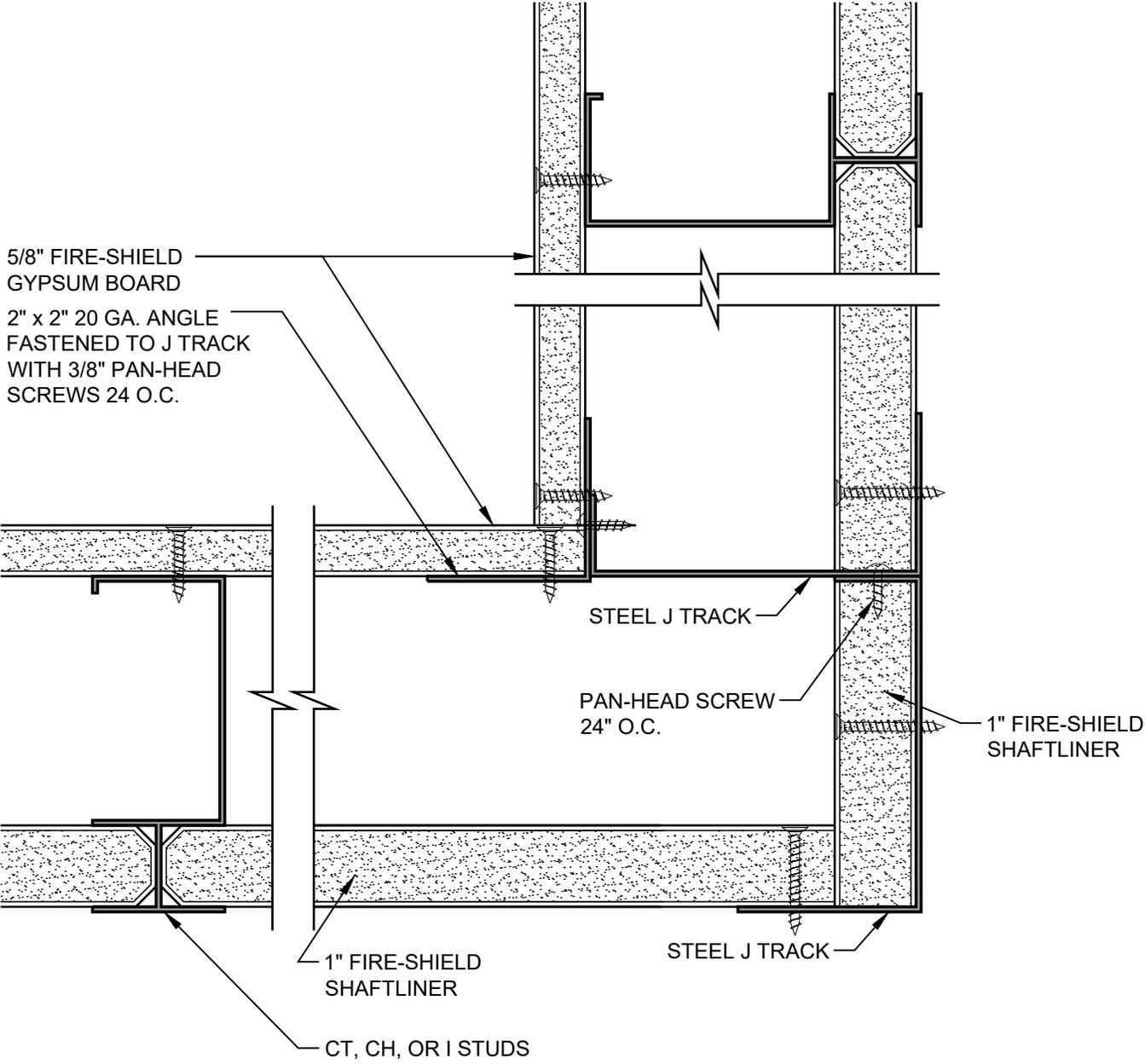
DATE: 09/01/18	1 HOUR SHAFTWALL CORNER DETAIL	
SCALE: 6"=1'-0"	DETAIL: SW 611	



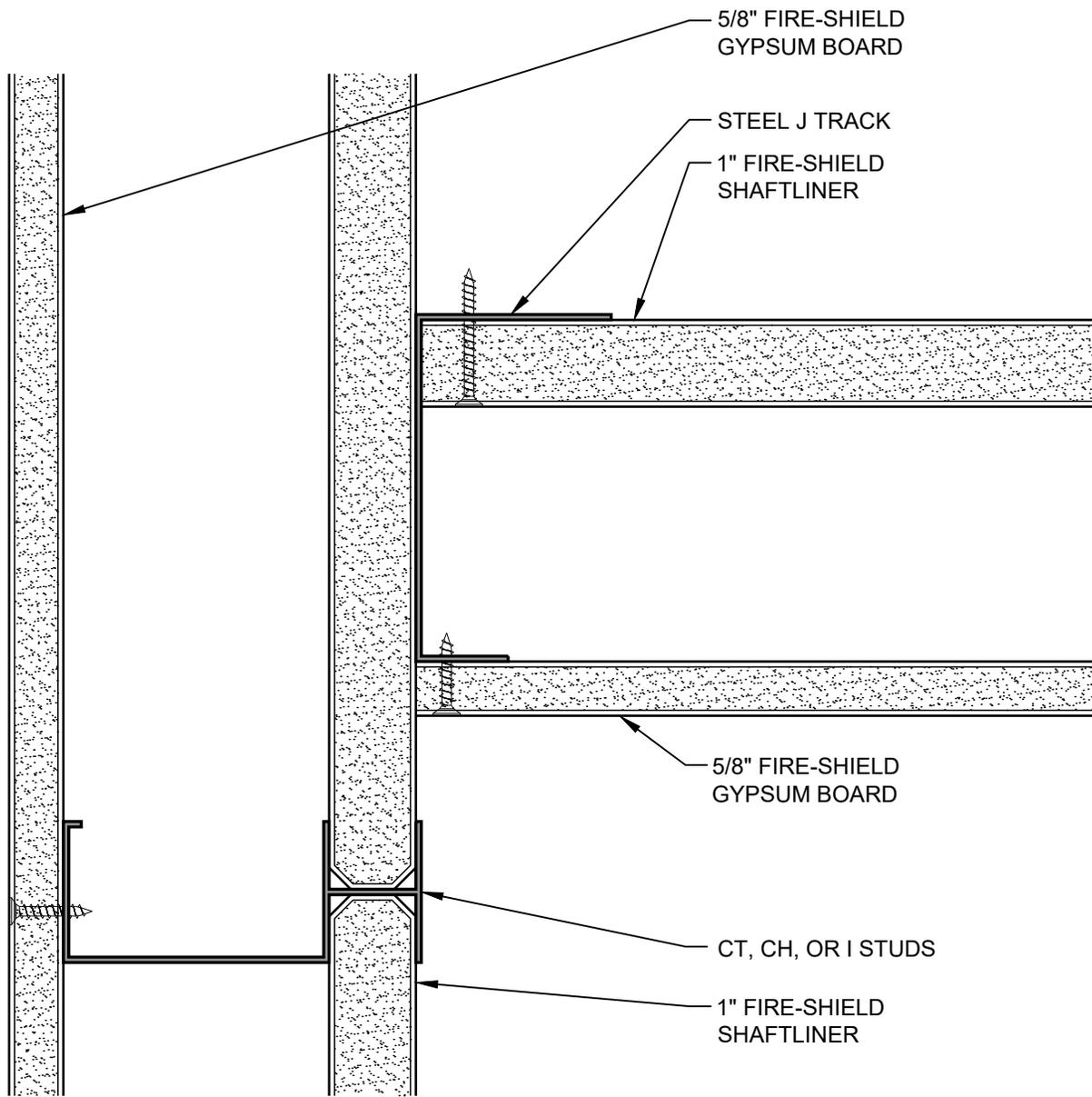
DATE: 09/01/18	1 HOUR SHAFTWALL CORNER DETAIL	
SCALE: 6"=1'-0"	DETAIL: SW 612	



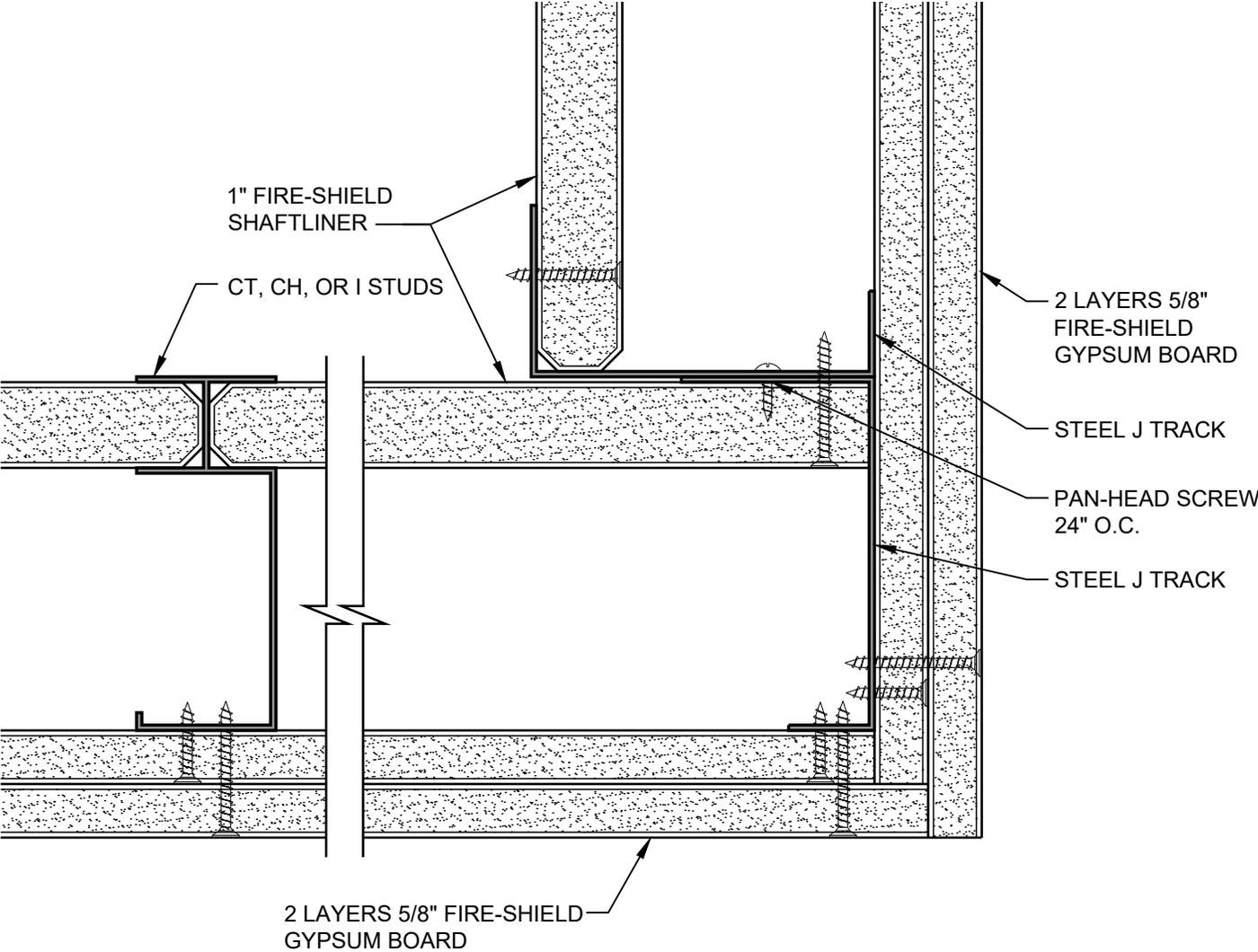
DATE: 09/01/18	1 HOUR SHAFTWALL CORNER DETAIL	
SCALE: 6"=1'-0"	DETAIL: SW 613	



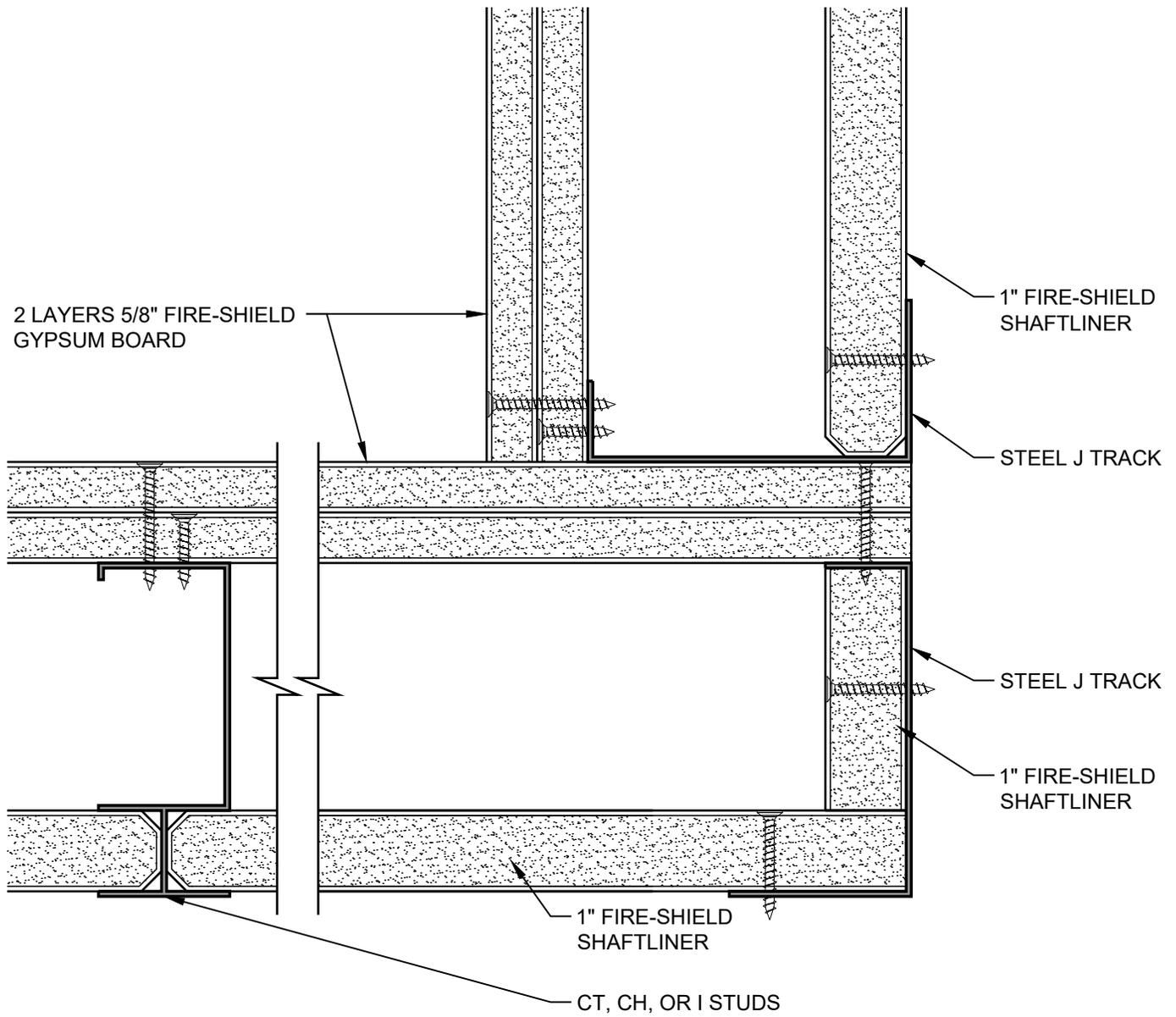
DATE: 09/01/18	1 HOUR SHAFTWALL CORNER DETAIL	
SCALE: 6"=1'-0"	DETAIL: SW 614	



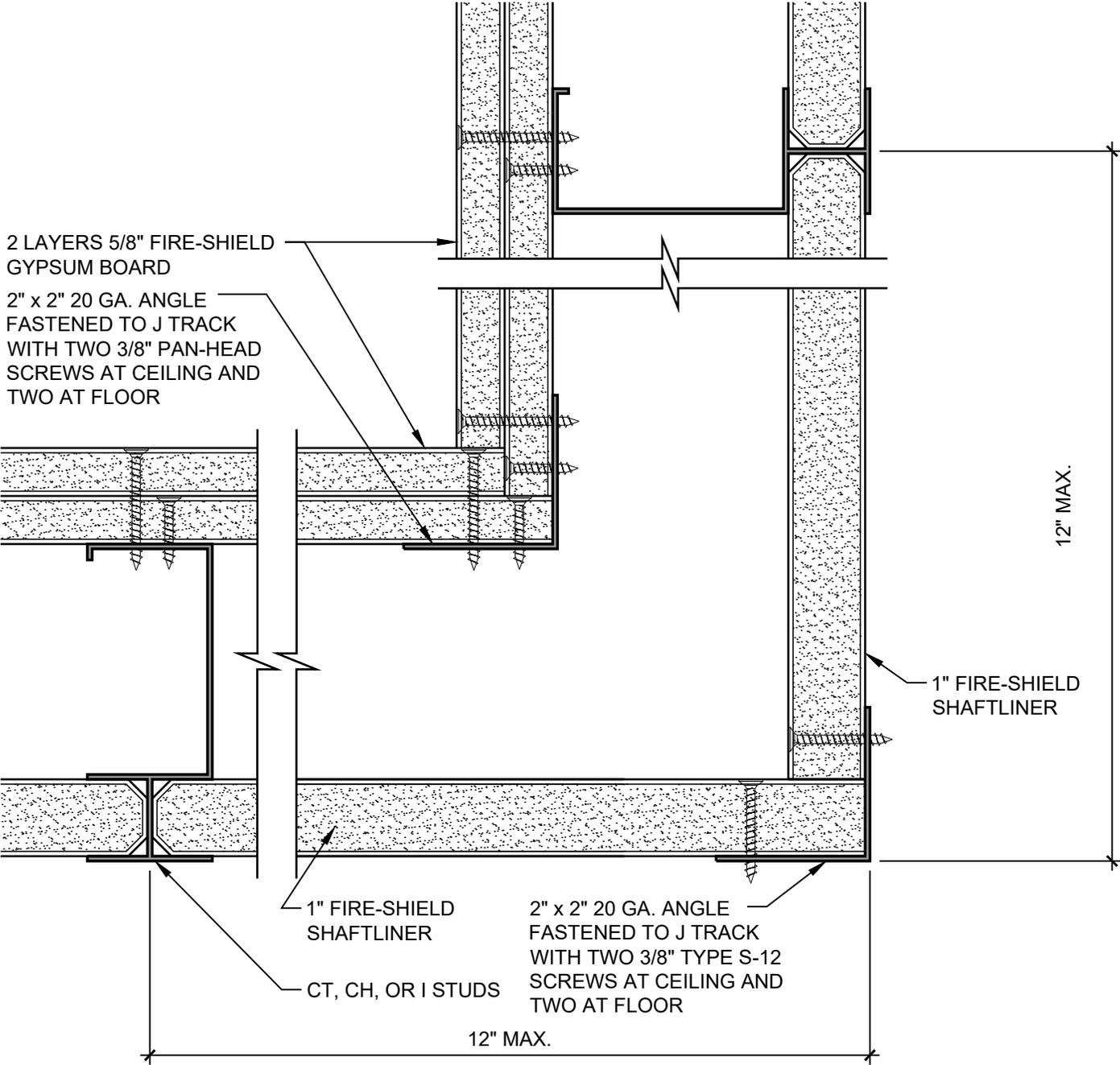
DATE: 09/01/18	1 HOUR SHAFTWALL CORNER DETAIL	
SCALE: 6"=1'-0"	DETAIL: SW 615	



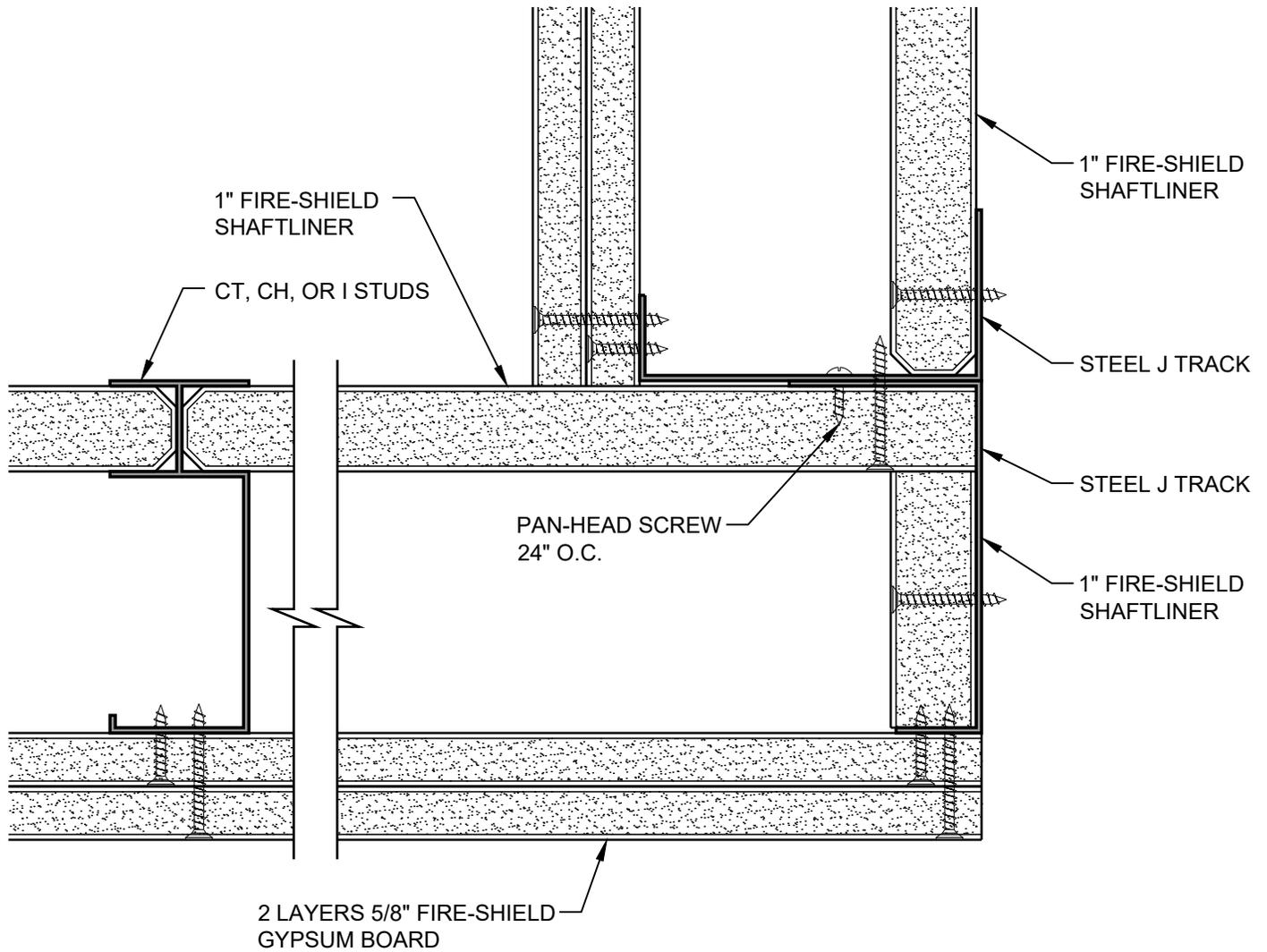
DATE: 09/01/18	2 HOUR SHAFTWALL CORNER DETAIL	
SCALE: 6"=1'-0"	DETAIL: SW 620	



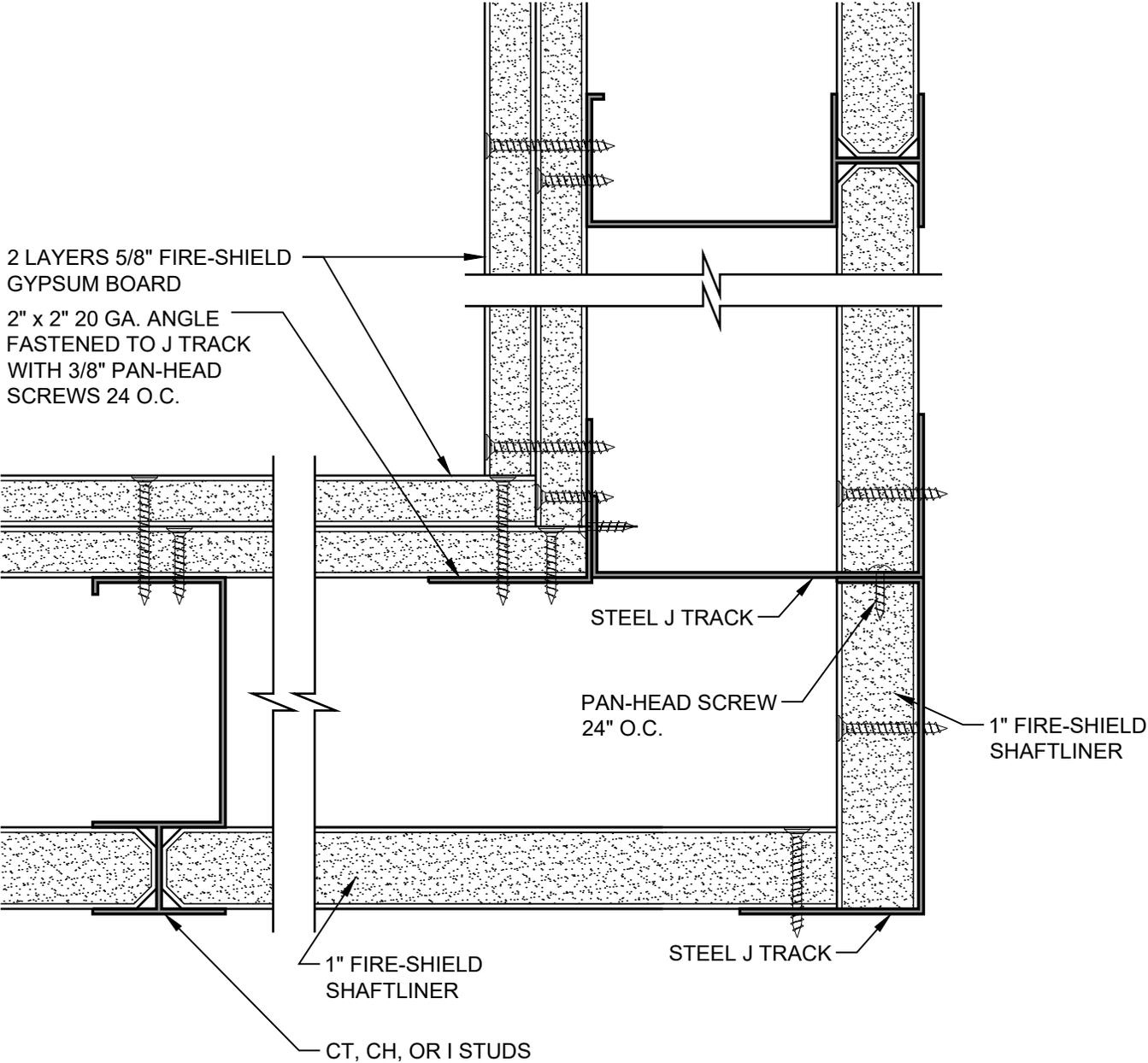
DATE: 09/01/18	2 HOUR SHAFTWALL CORNER DETAIL	
SCALE: 6"=1'-0"	DETAIL: SW 621	



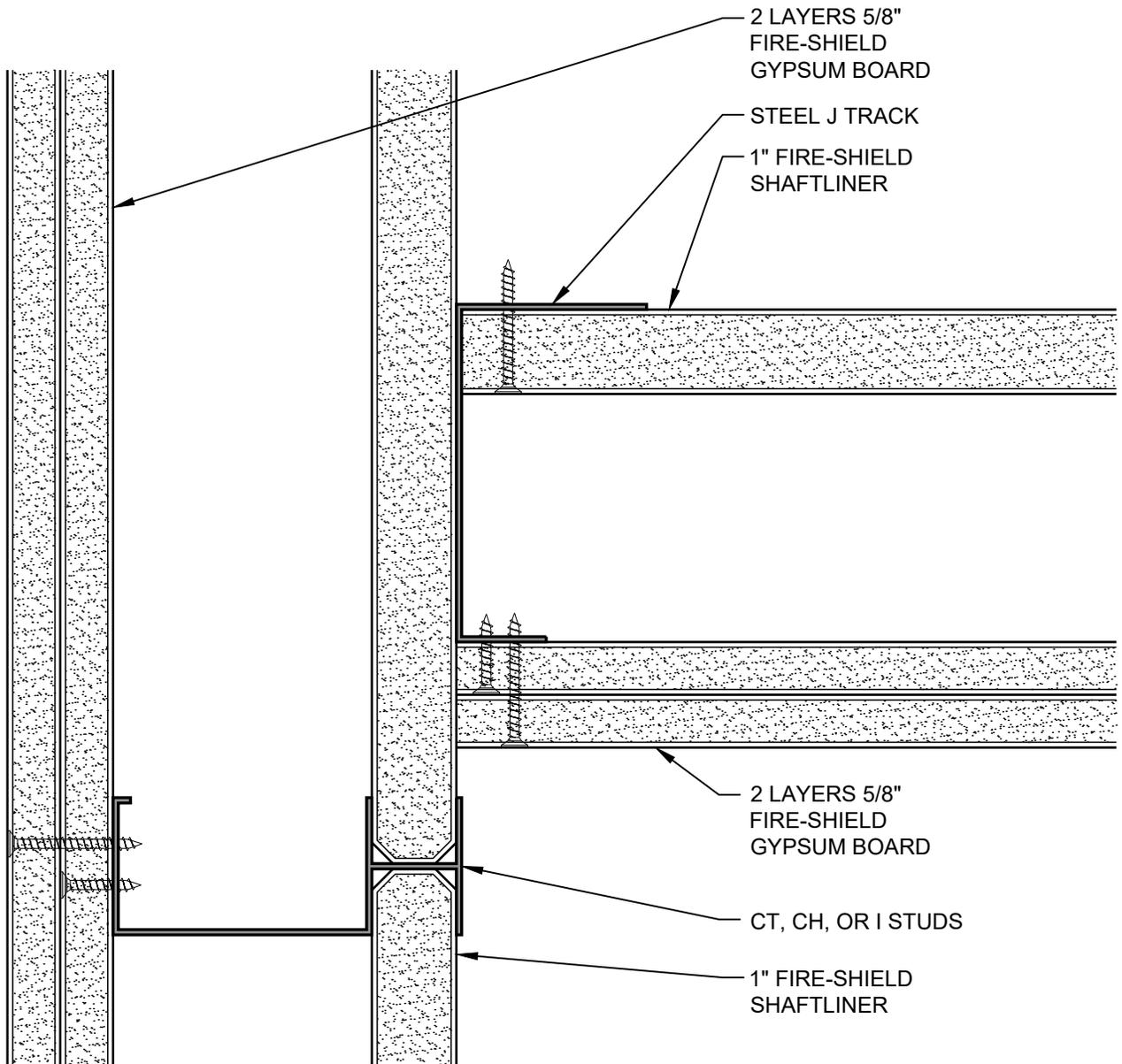
DATE: 09/01/18	2 HOUR SHAFTWALL CORNER DETAIL	National Gypsum
SCALE: 6"=1'-0"		



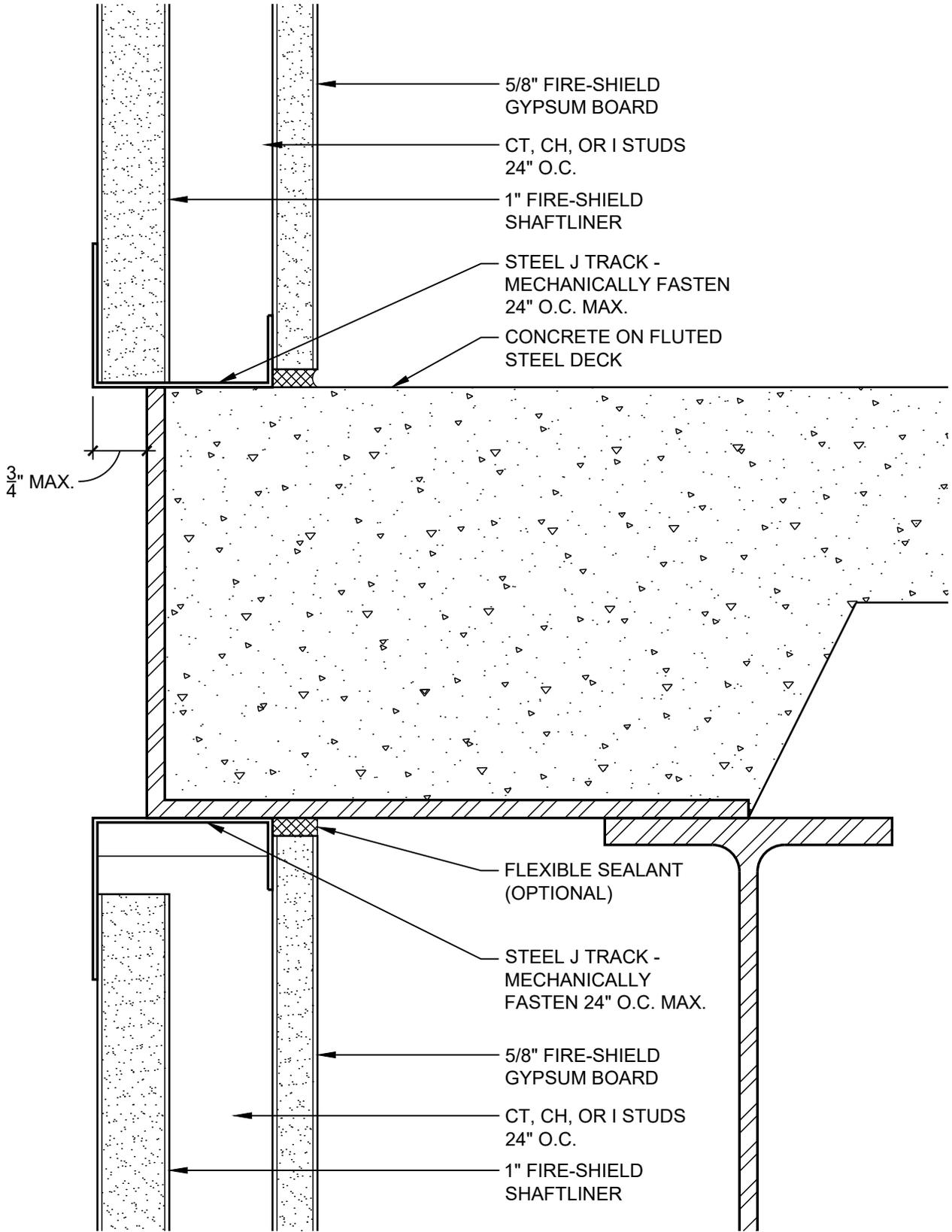
DATE: 09/01/18	2 HOUR SHAFTWALL CORNER DETAIL	
SCALE: 6"=1'-0"	DETAIL: SW 623	



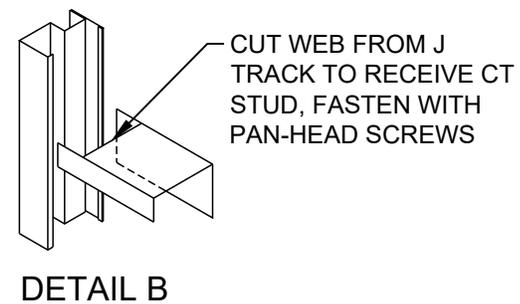
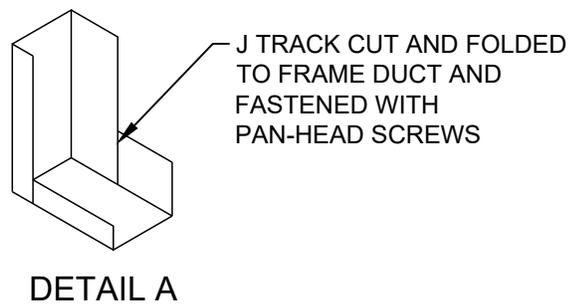
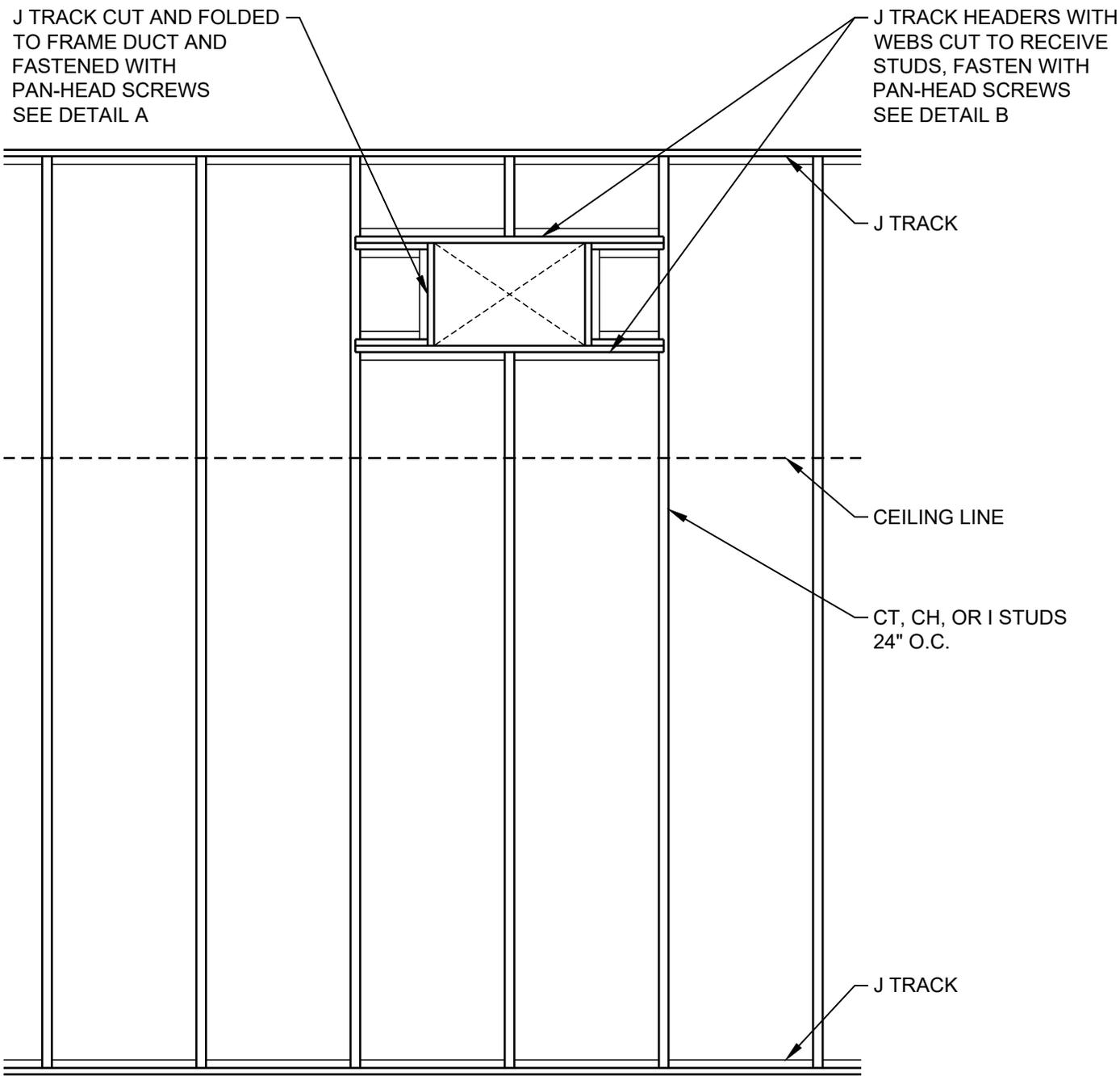
DATE: 09/01/18	2 HOUR SHAFTWALL CORNER DETAIL	
SCALE: 6"=1'-0"	DETAIL: SW 624	



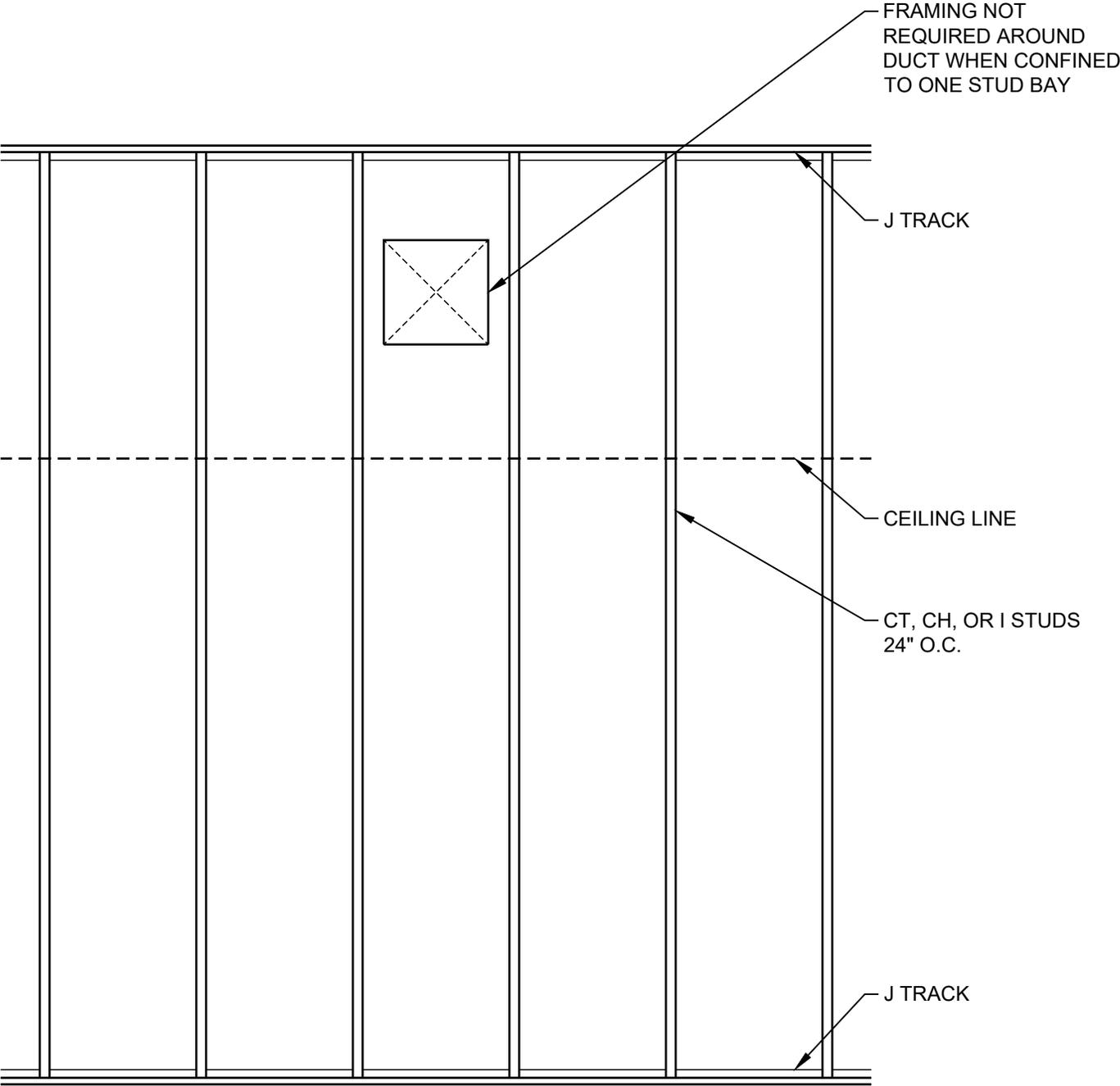
DATE: 09/01/18	2 HOUR SHAFTWALL CORNER DETAIL	
SCALE: 6"=1'-0"	DETAIL: SW 625	



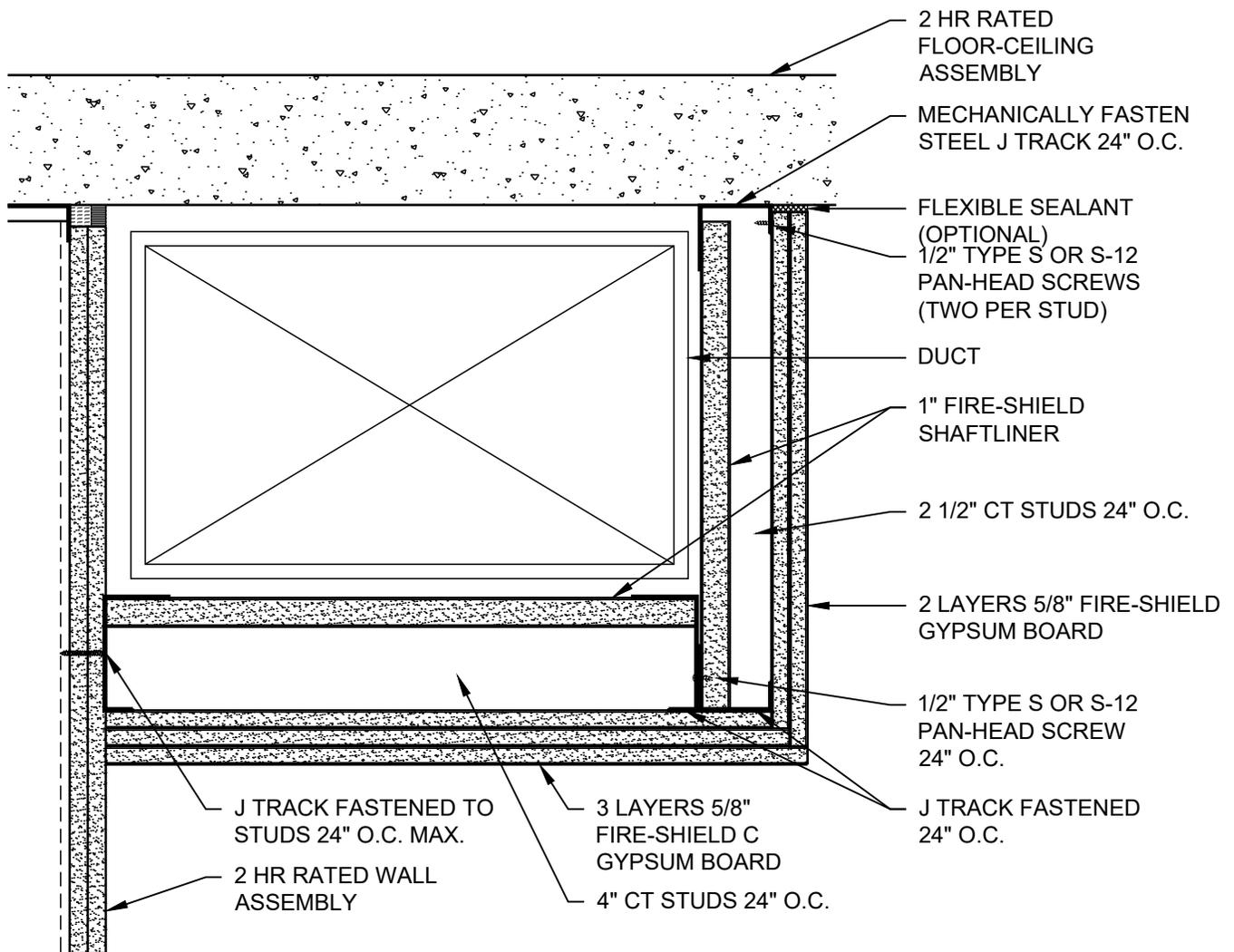
DATE: 09/01/18	SHAFTWALL OVERHANG AT SLAB EDGE	
SCALE: 6"=1'-0"	DETAIL: SW 650	



DATE: 09/01/18	SHAFTWALL FRAMING AT DUCT PENETRATION	
SCALE: 1/2"=1'-0"	DETAIL: SW 701	

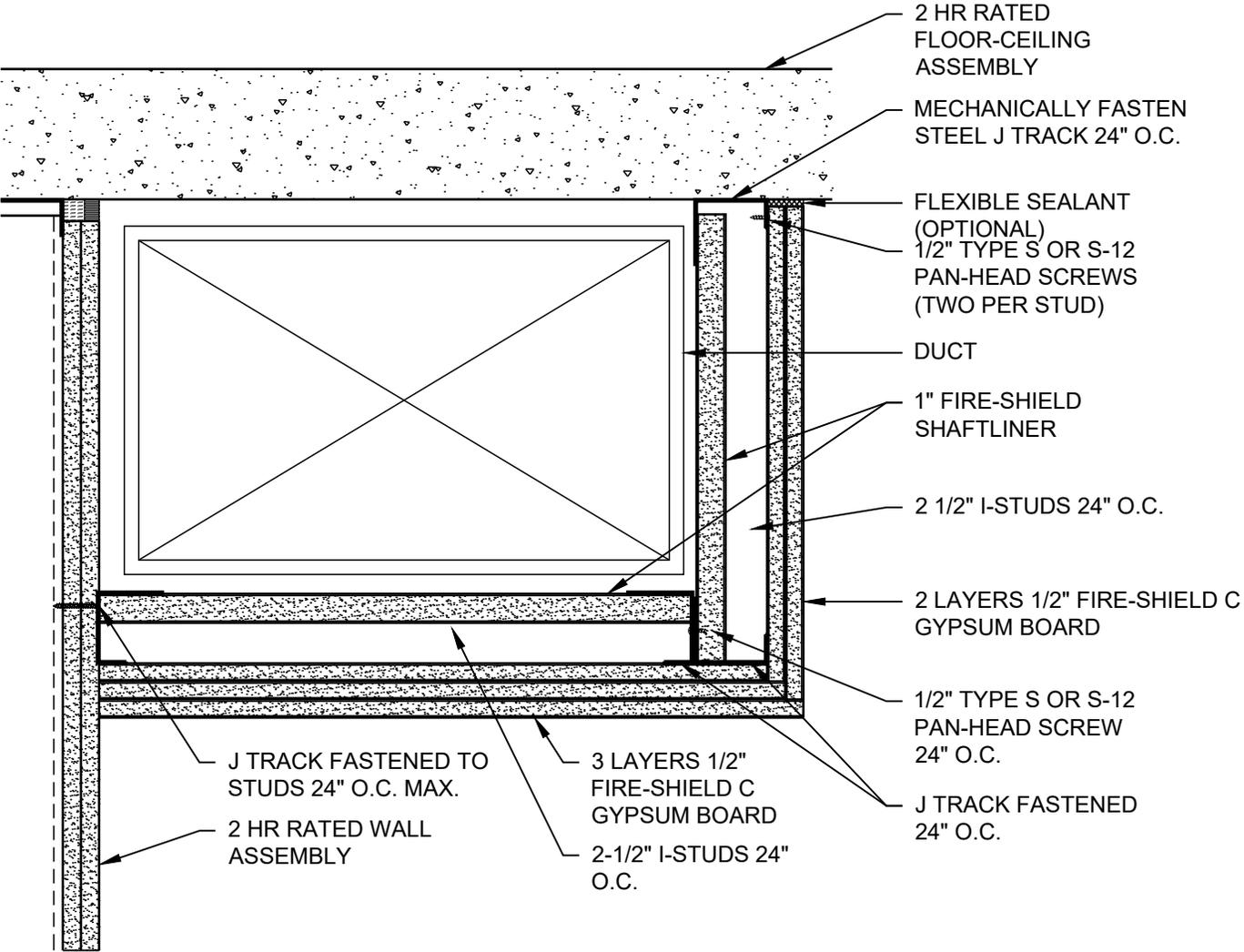


DATE: 09/01/18	SHAFTWALL FRAMING AT DUCT PENETRATION	
SCALE: 1/2"=1'-0"	DETAIL: SW 702	



VERTICAL - 2 HR
 UL DESIGN: U497
 HORIZONTAL - 2 HR
 UL DESIGN: G586

DATE: 09/01/18	2 HOUR HORIZONTAL DUCT PROTECTION	National Gypsum
SCALE: 2"=1'-0"		



UL EVALUATION REPORT
UL ER R3501-02

VERTICAL - 2 HR
UL DESIGN: U497
HORIZONTAL - 2 HR
WHI 694-0300.1

DATE: 09/01/18	2 HOUR HORIZONTAL DUCT PROTECTION	National Gypsum
SCALE: 2"=1'-0"		