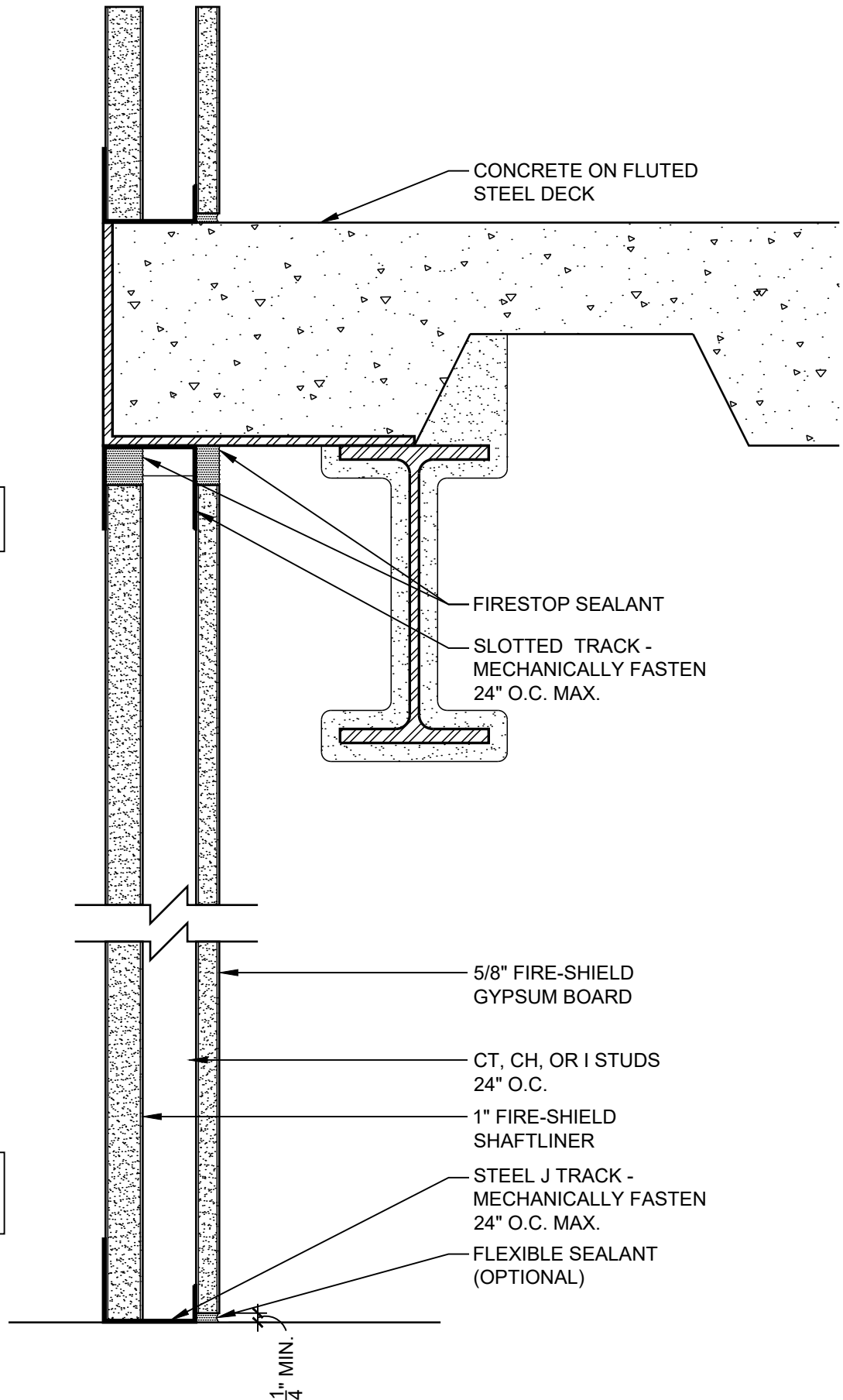


HEAD OF WALL - 1 HR
UL DESIGN: HW-D-0194

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



DATE: 09/01/18

1 HOUR SHAFTWALL WITH DEFLECTION TRACK

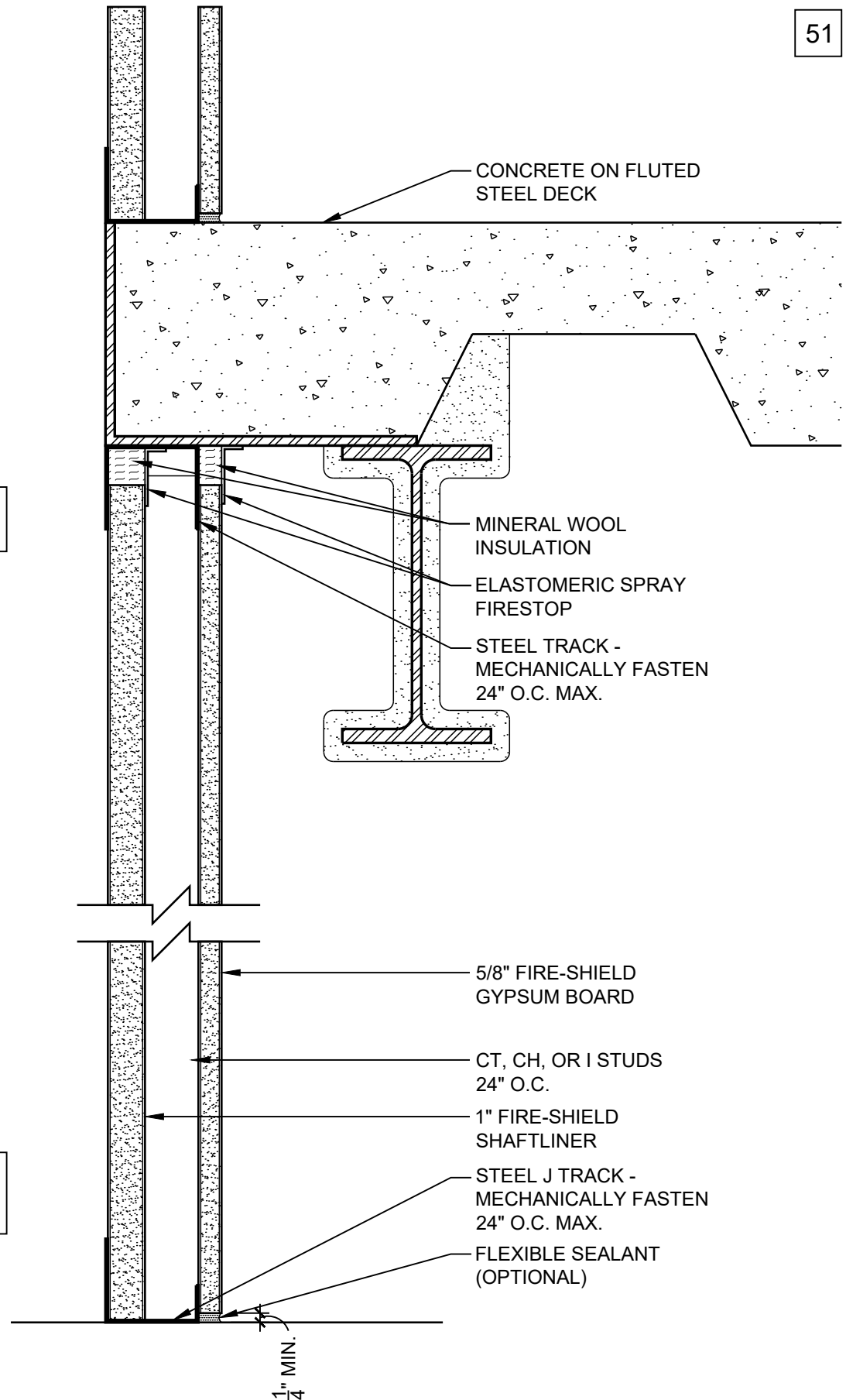
SCALE: 3"=1'-0"

DETAIL: SW 102

National
Gypsum

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

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



DATE: 09/01/18

1 HOUR SHAFTWALL WITH DEFLECTION TRACK

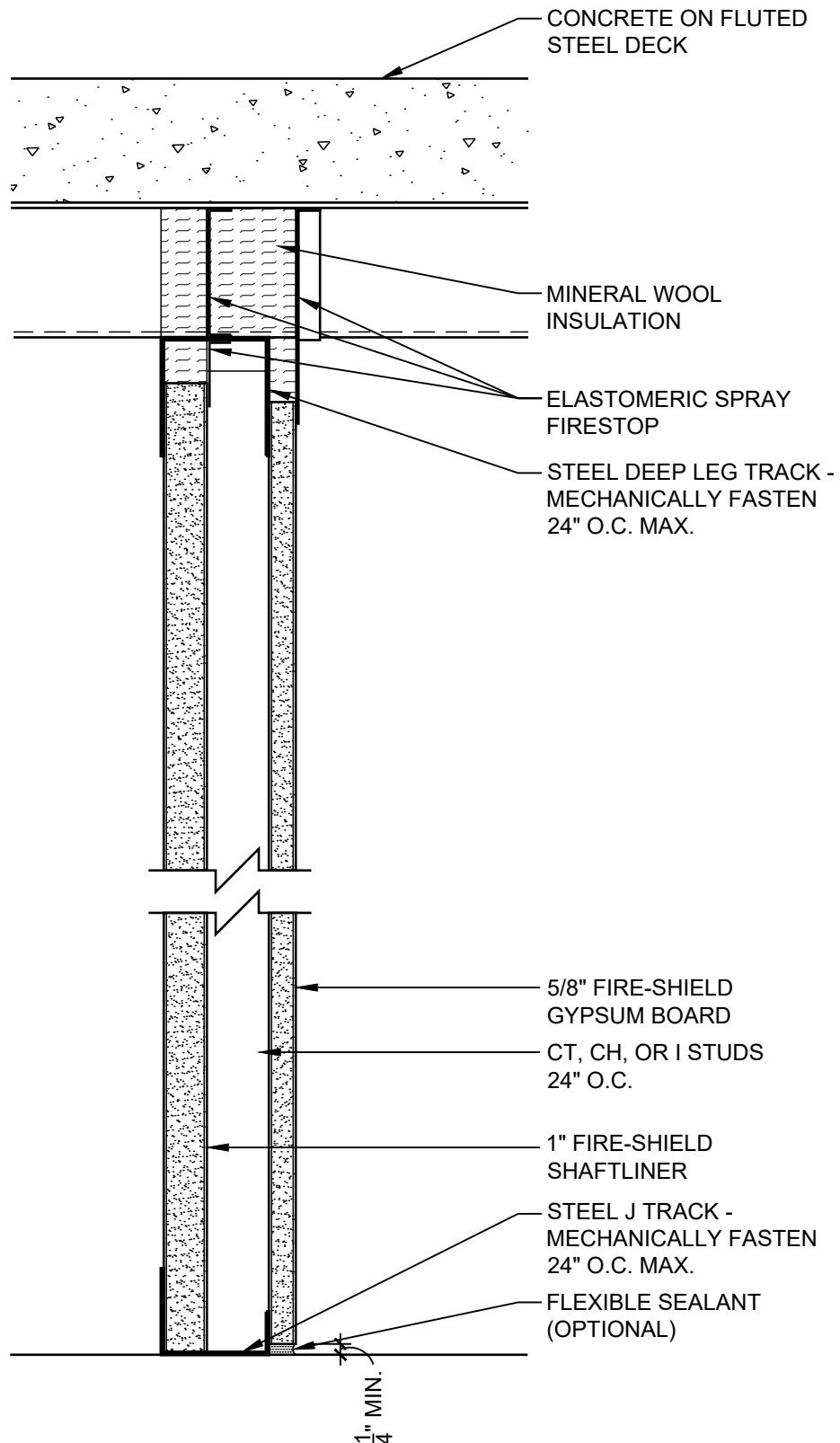
National
Gypsum

SCALE: 3"=1'-0"

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

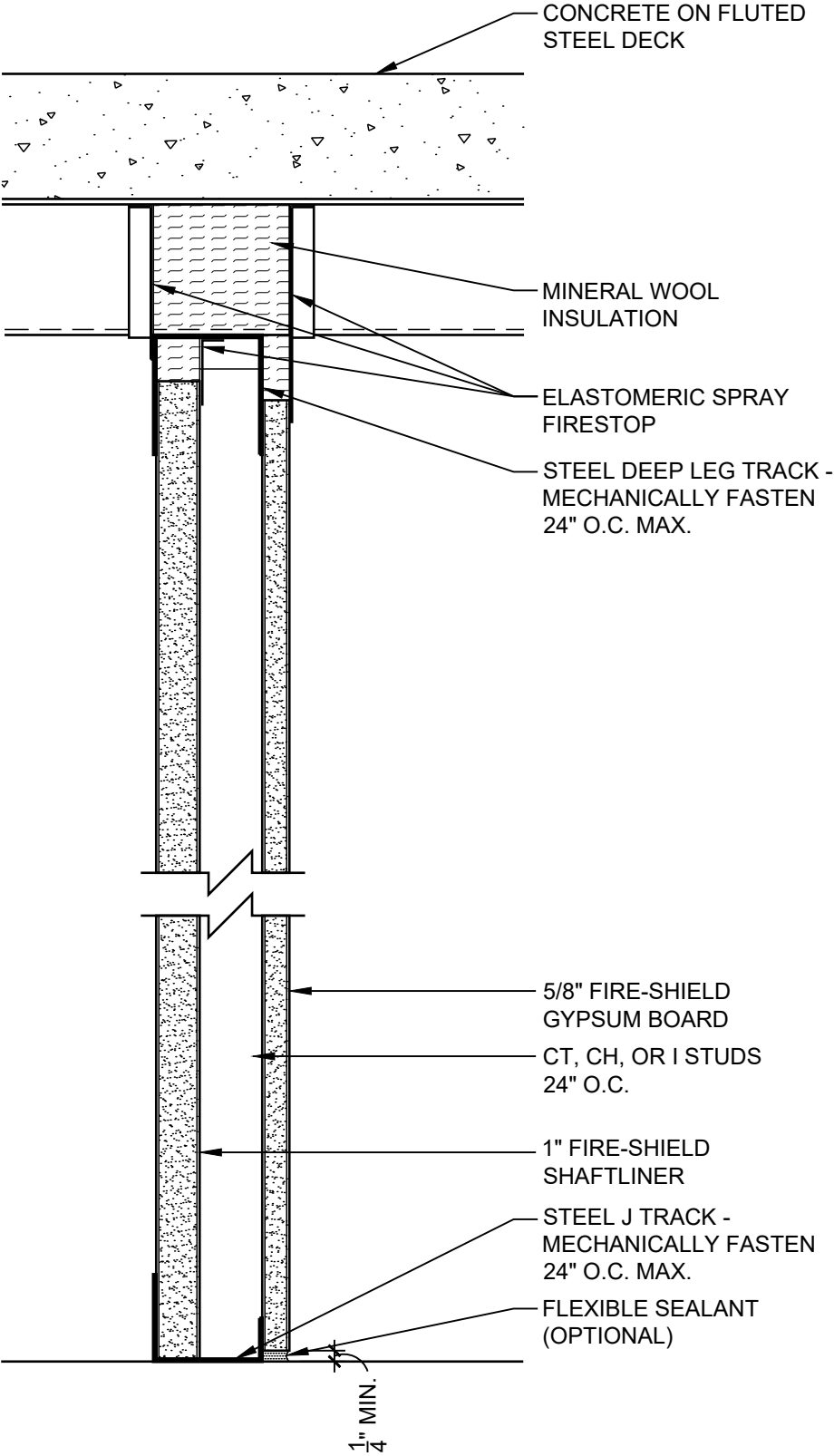
SCALE: 3"=1'-0"

DETAIL: SW 104

National
Gypsum

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

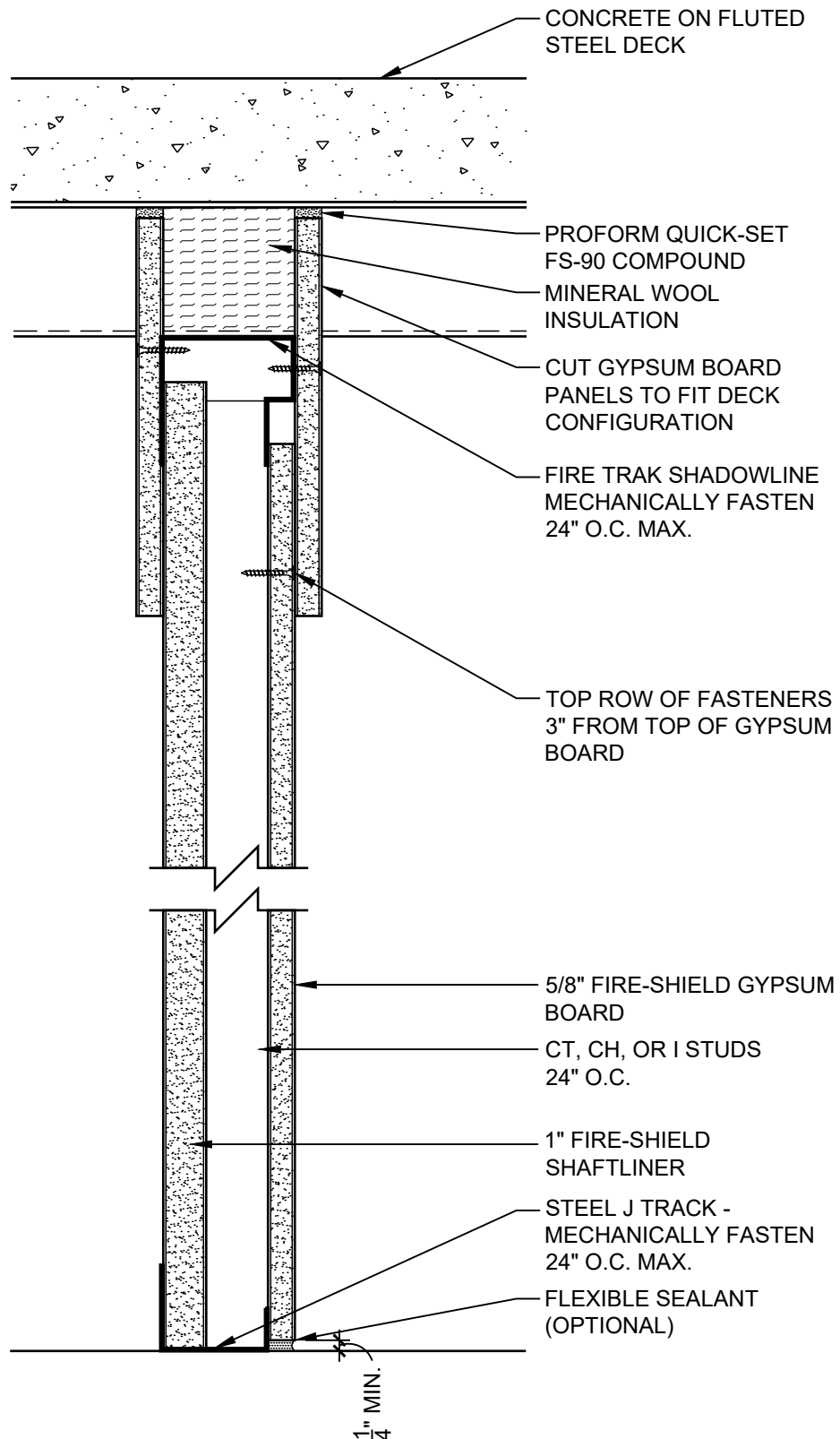
PARTITION - 1 HR
UL DESIGN: U499
UL DESIGN: W419



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

1 HOUR SHAFTWALL WITH DEFLECTION TRACK

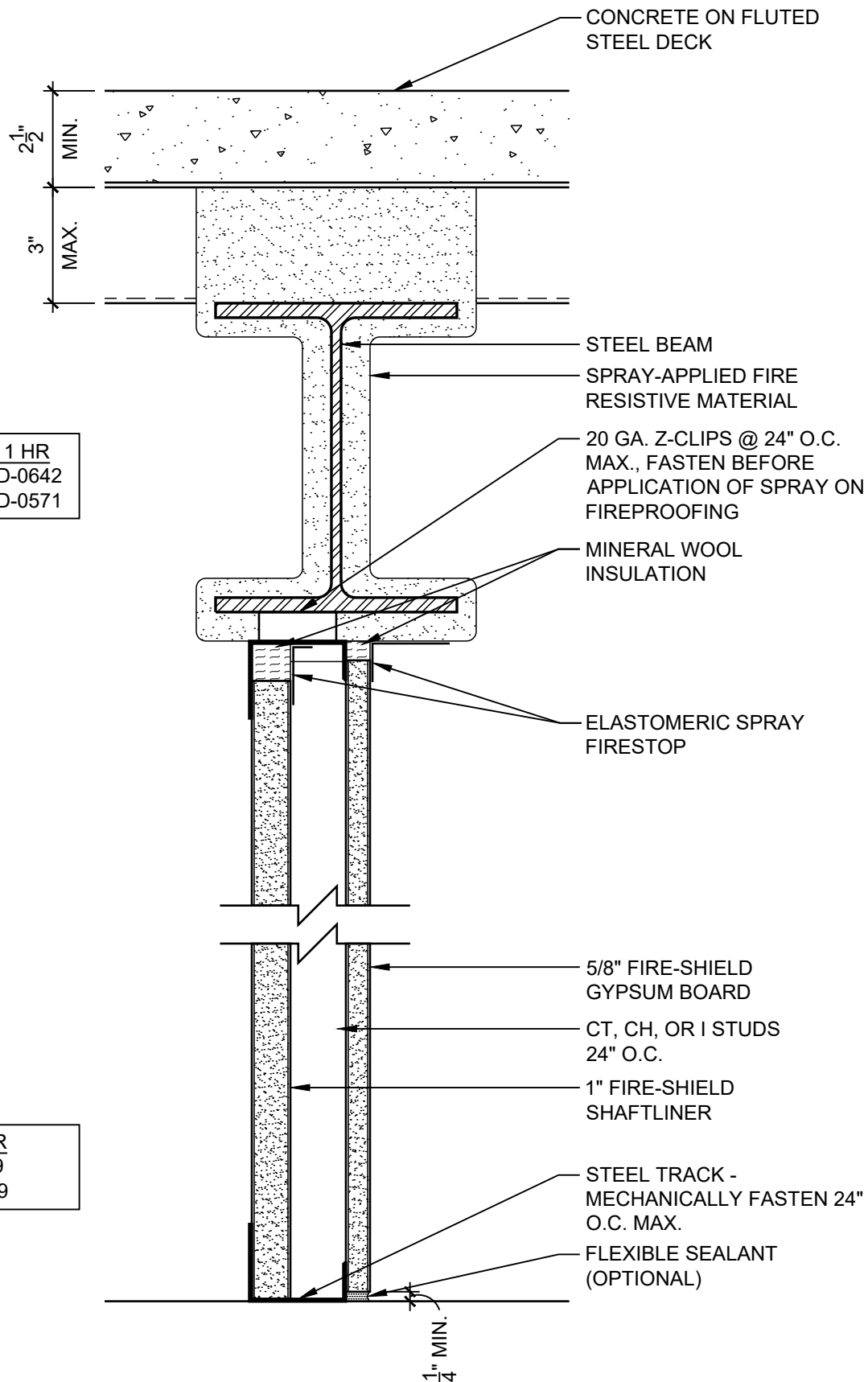
SCALE: 3"=1'-0"

DETAIL: SW 106

National
Gypsum

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

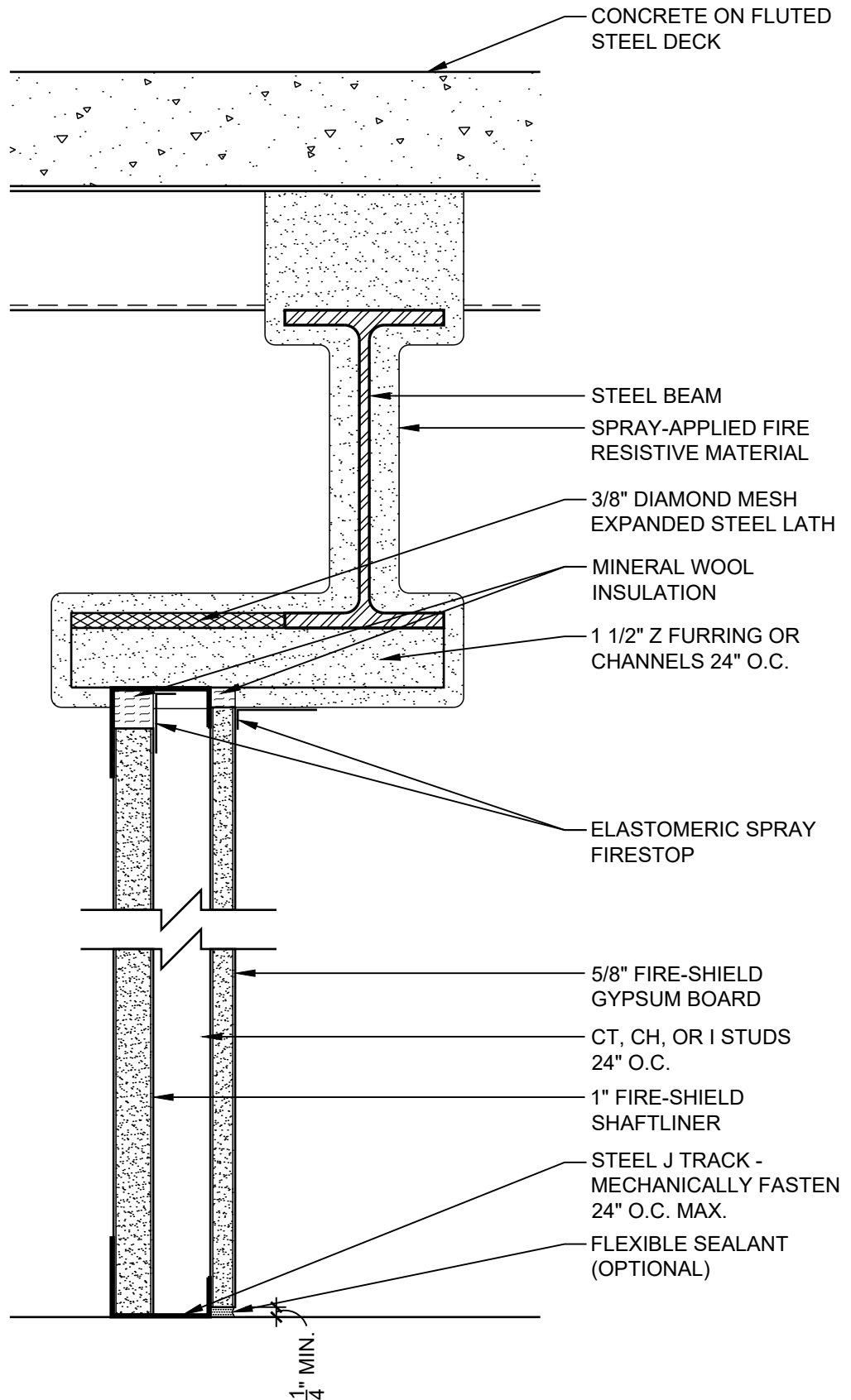
PARTITION - 1 HR
UL DESIGN: U499
UL DESIGN: W419



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

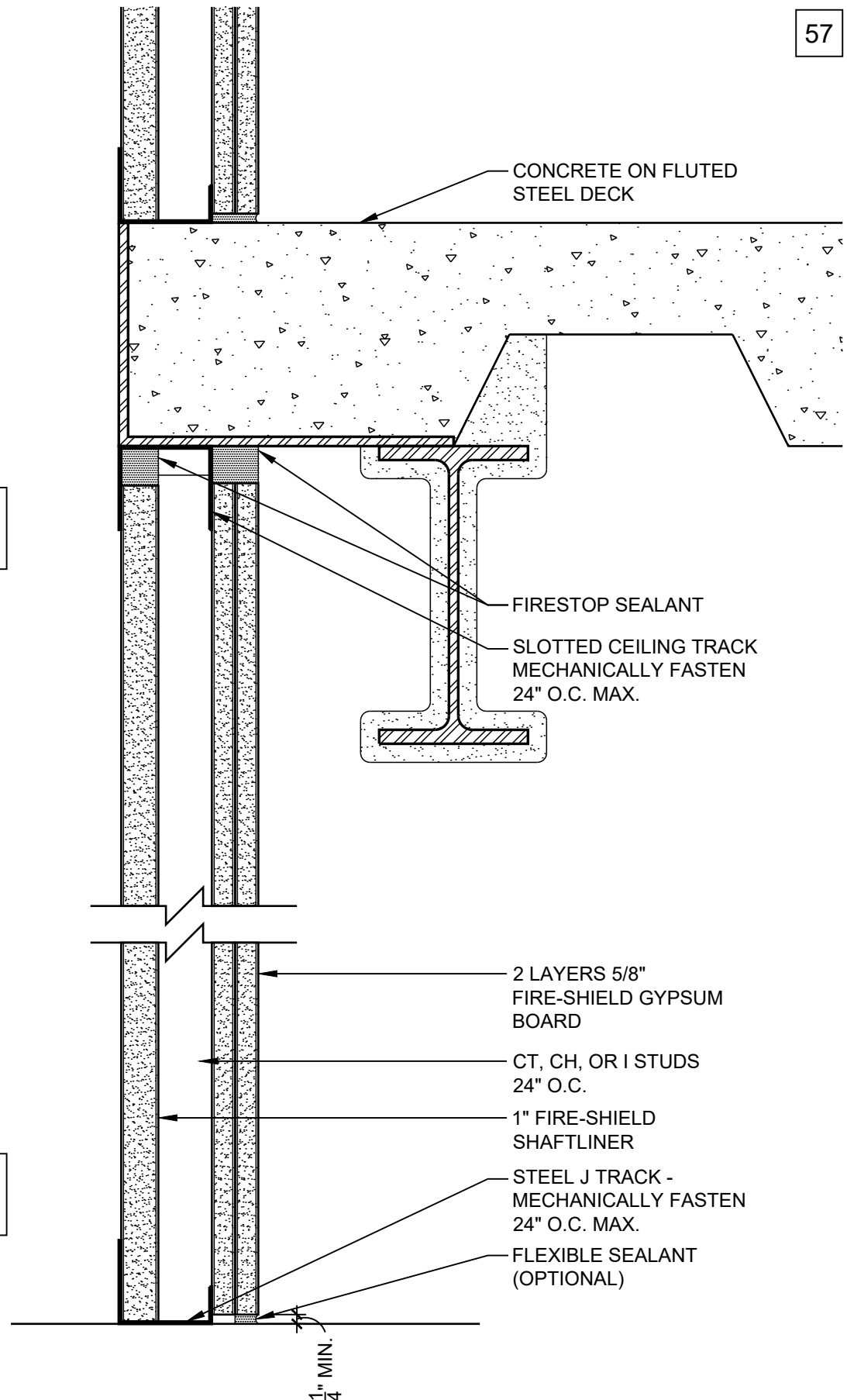
SCALE: 3"=1'-0"

DETAIL: SW 108

National
Gypsum

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

2 HOUR SHAFTWALL WITH DEFLECTION TRACK

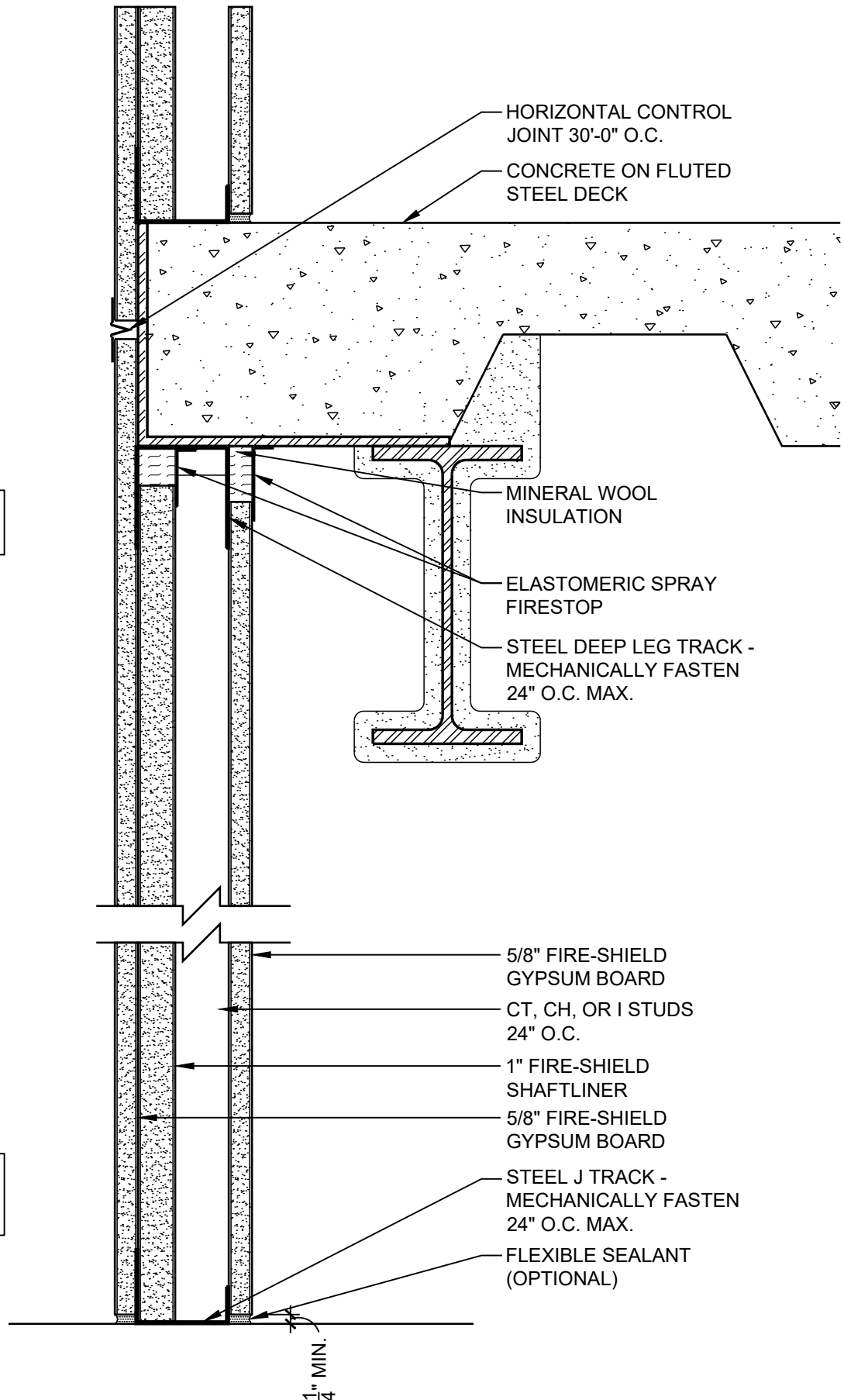
National
Gypsum

SCALE: 3"=1'-0"

DETAIL: SW 203

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

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



DATE: 09/01/18

2 HOUR SHAFTWALL PARTITION AT STAIR

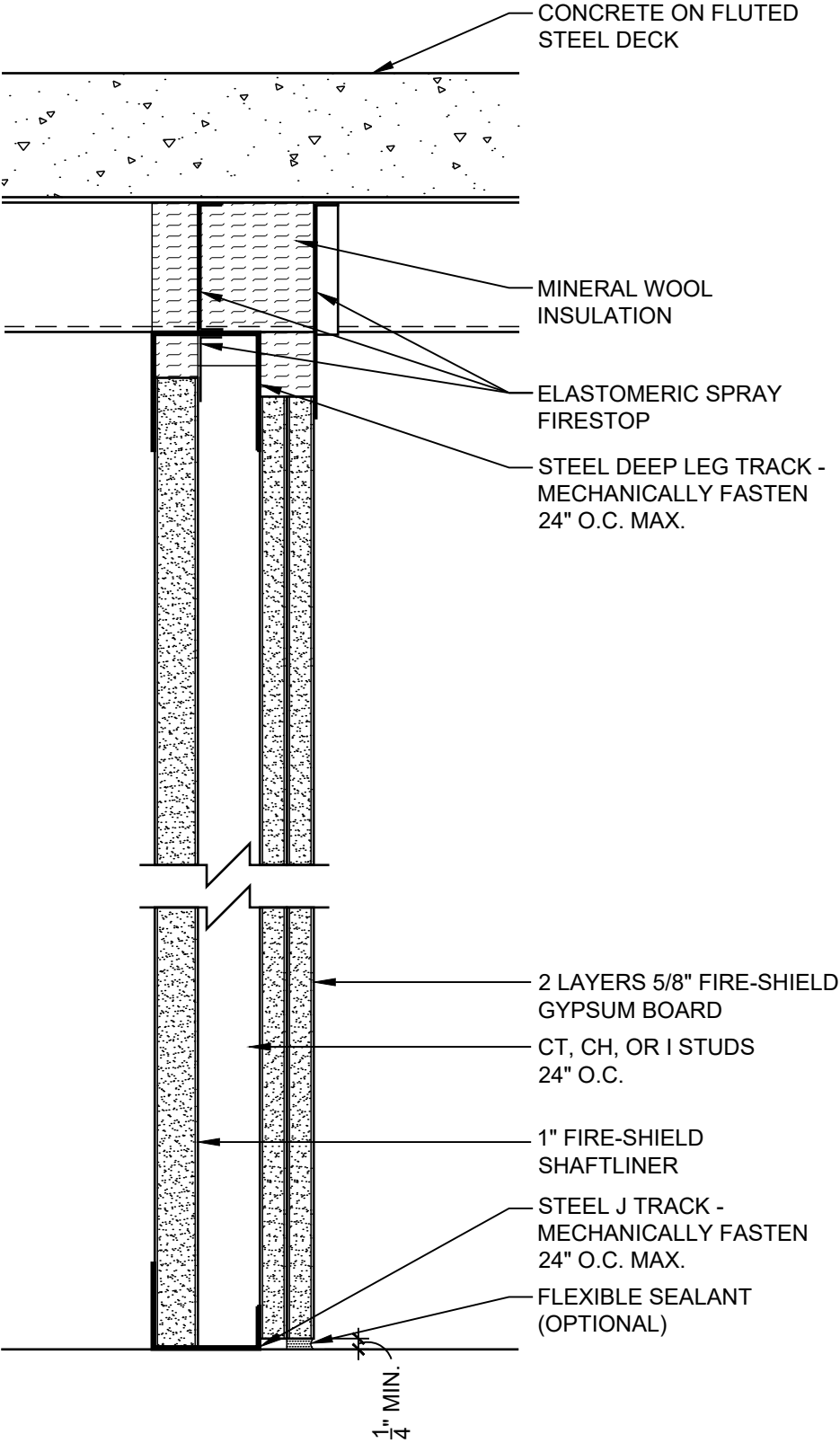
SCALE: 3"=1'-0"

DETAIL: SW 204

National
Gypsum

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

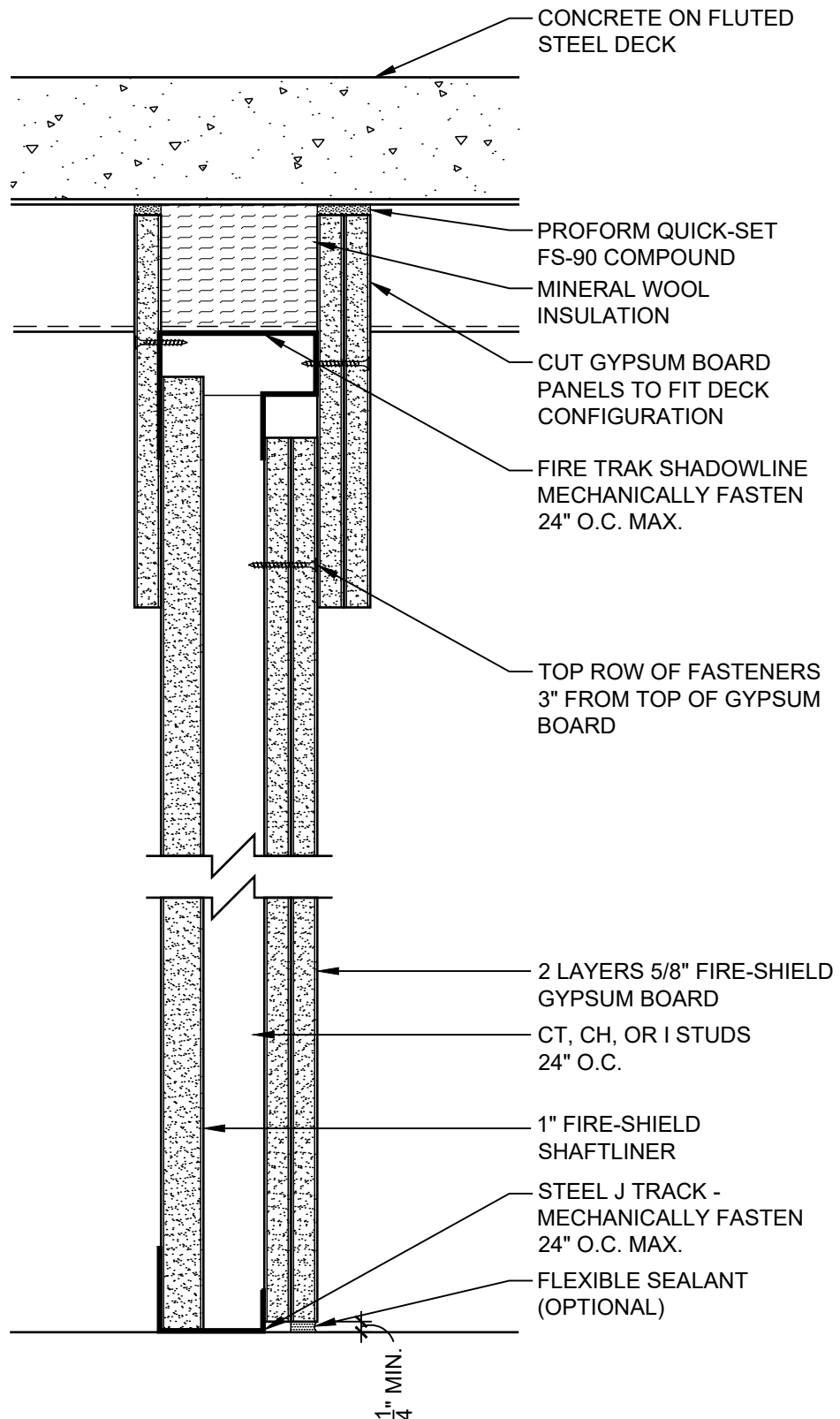
PARTITION - 2 HR
UL DESIGN: U497
UL DESIGN: W419



DATE: 09/01/18	2 HOUR SHAFTWALL TO STEEL DECK	
SCALE: 3"=1'-0"	DETAIL: SW 205	

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

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



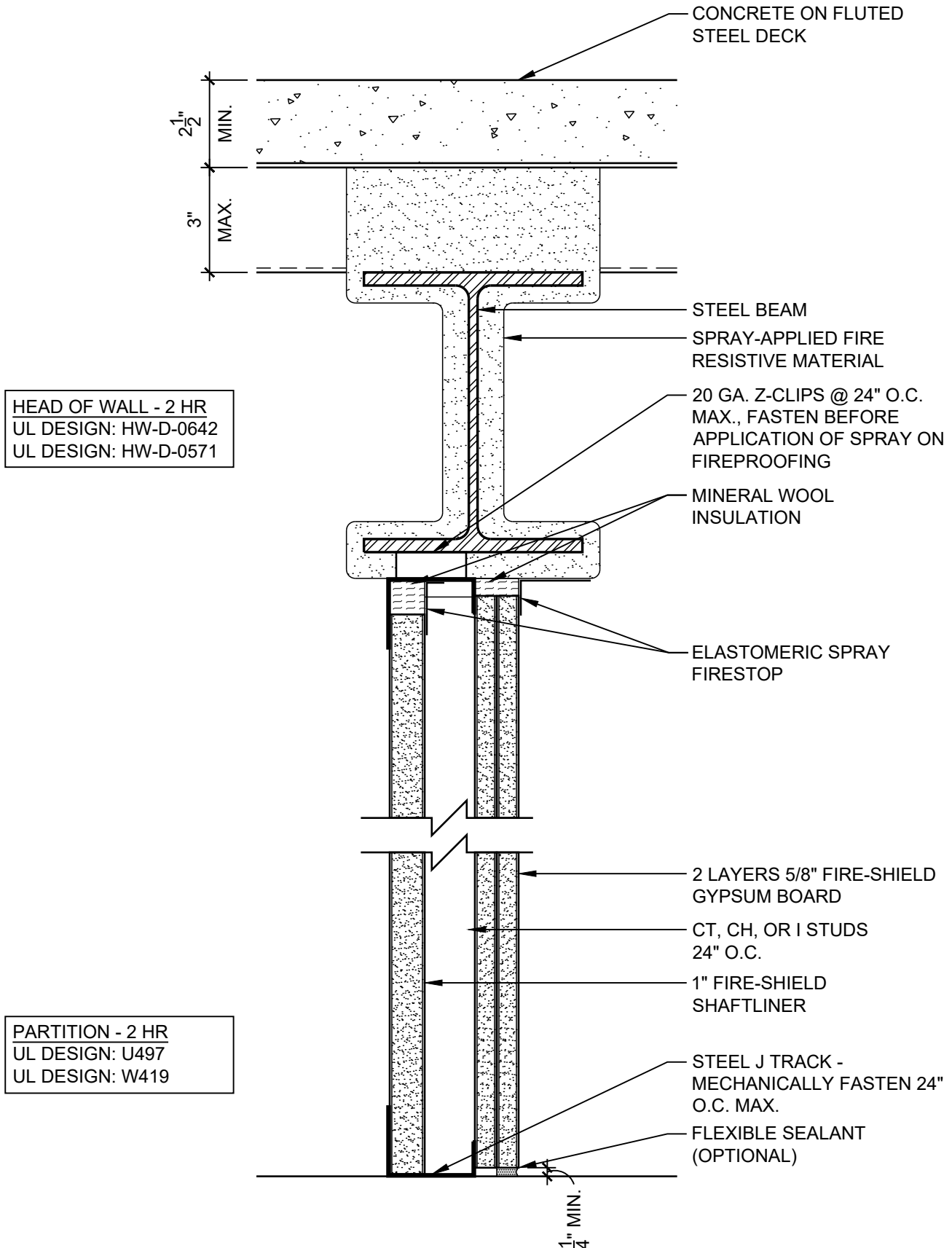
DATE: 09/01/18

2 HOUR SHAFTWALL WITH DEFLECTION TRACK

SCALE: 3"=1'-0"

DETAIL: SW 206

National
Gypsum



DATE: 09/01/18

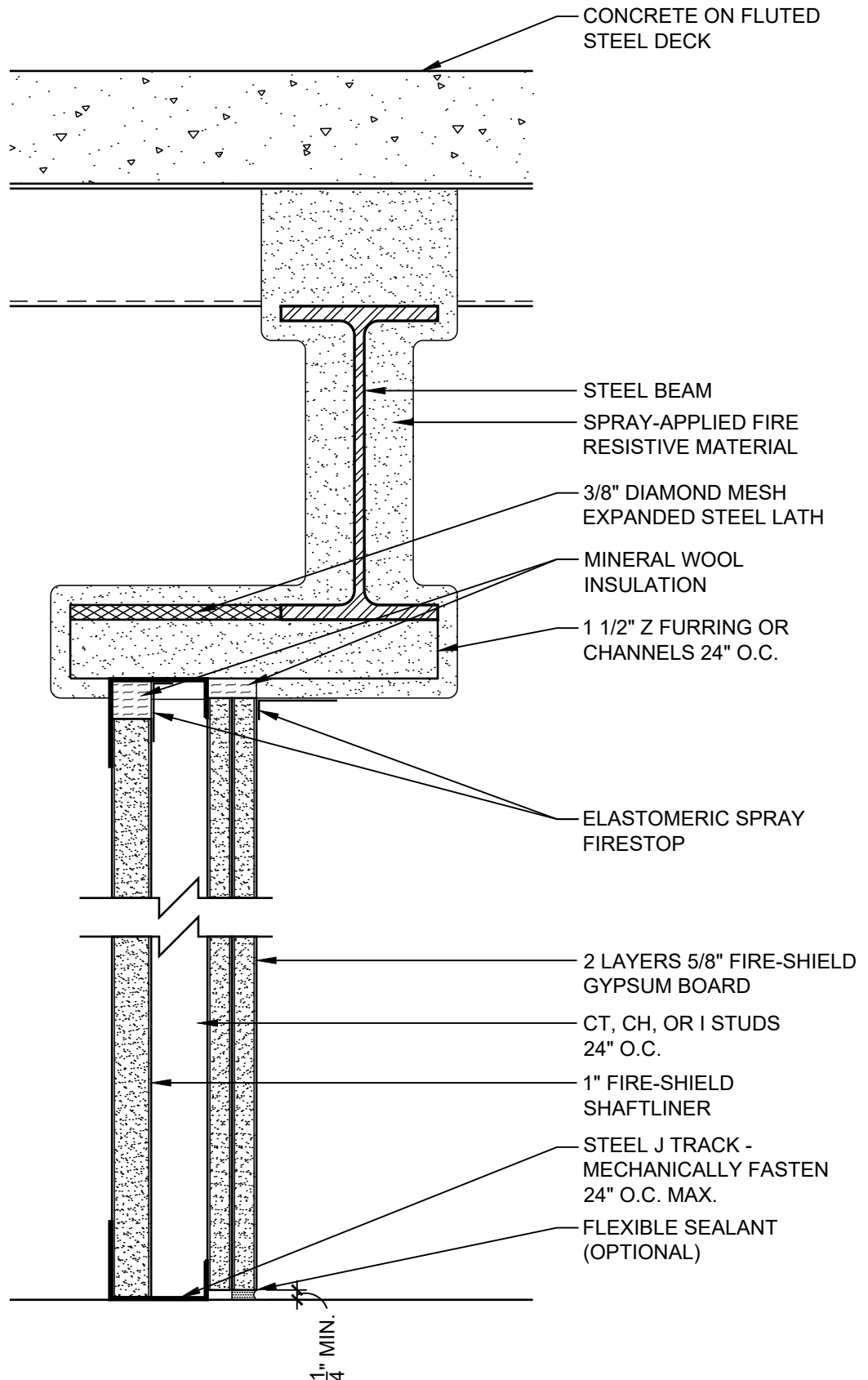
2 HOUR SHAFTWALL PARTITION TO STEEL BEAM

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

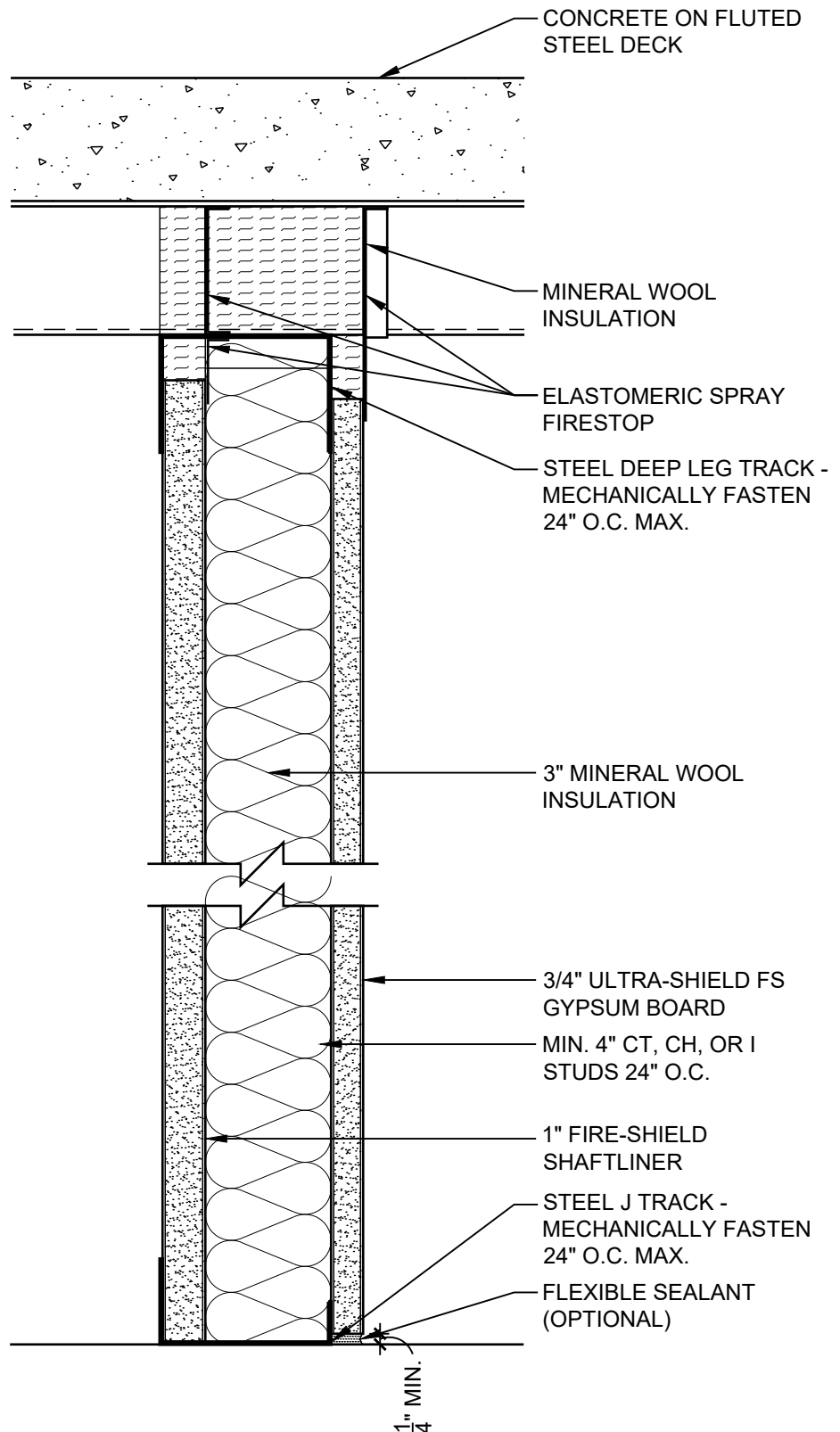
SCALE: 3"=1'-0"

DETAIL: SW 208

National
Gypsum

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

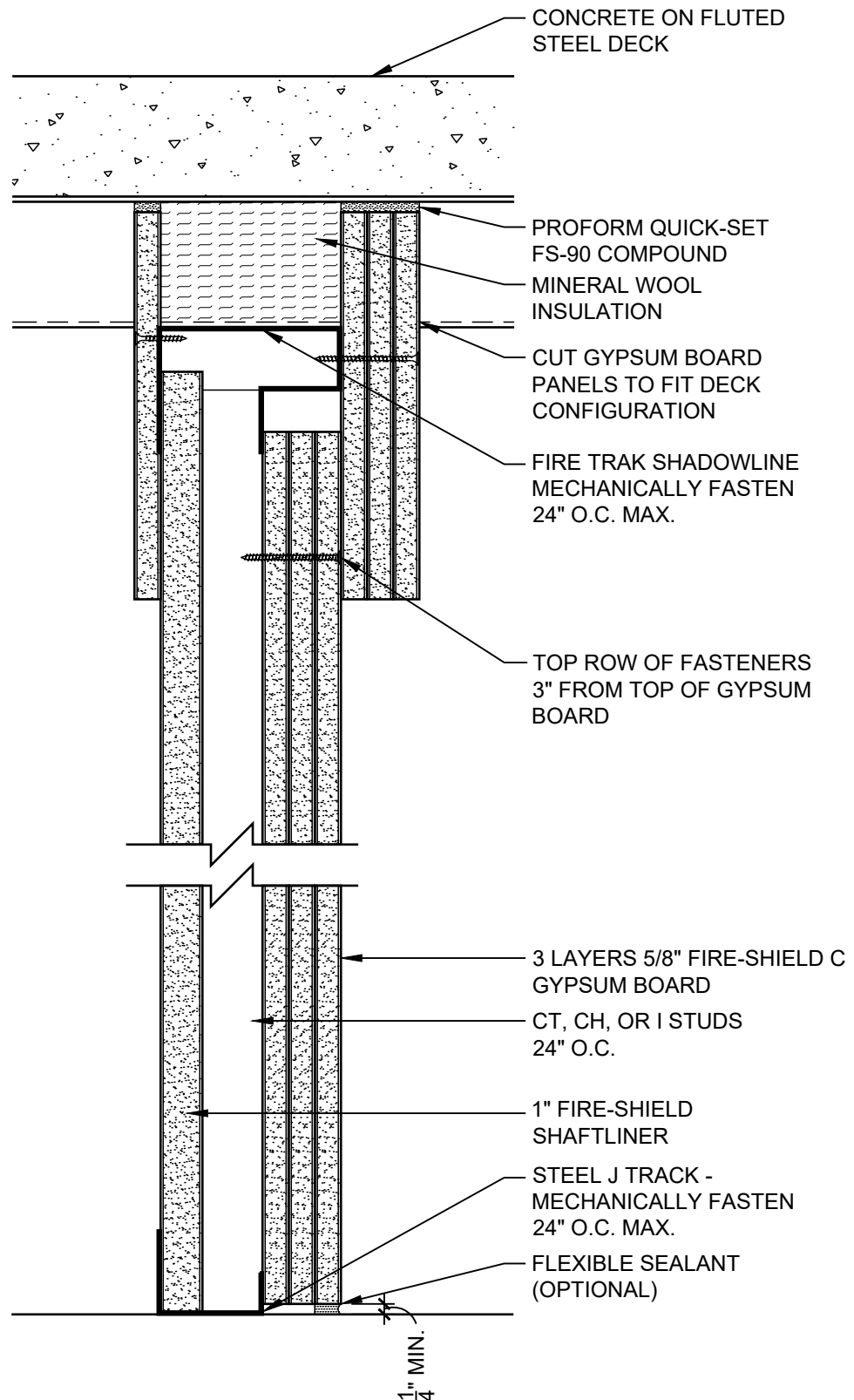
PARTITION - 2 HR
UL DESIGN: W441
UL DESIGN: W419



DATE: 09/01/18	2 HOUR SHAFTWALL TO STEEL DECK	
SCALE: 3"=1'-0"	DETAIL: SW 209	

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

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



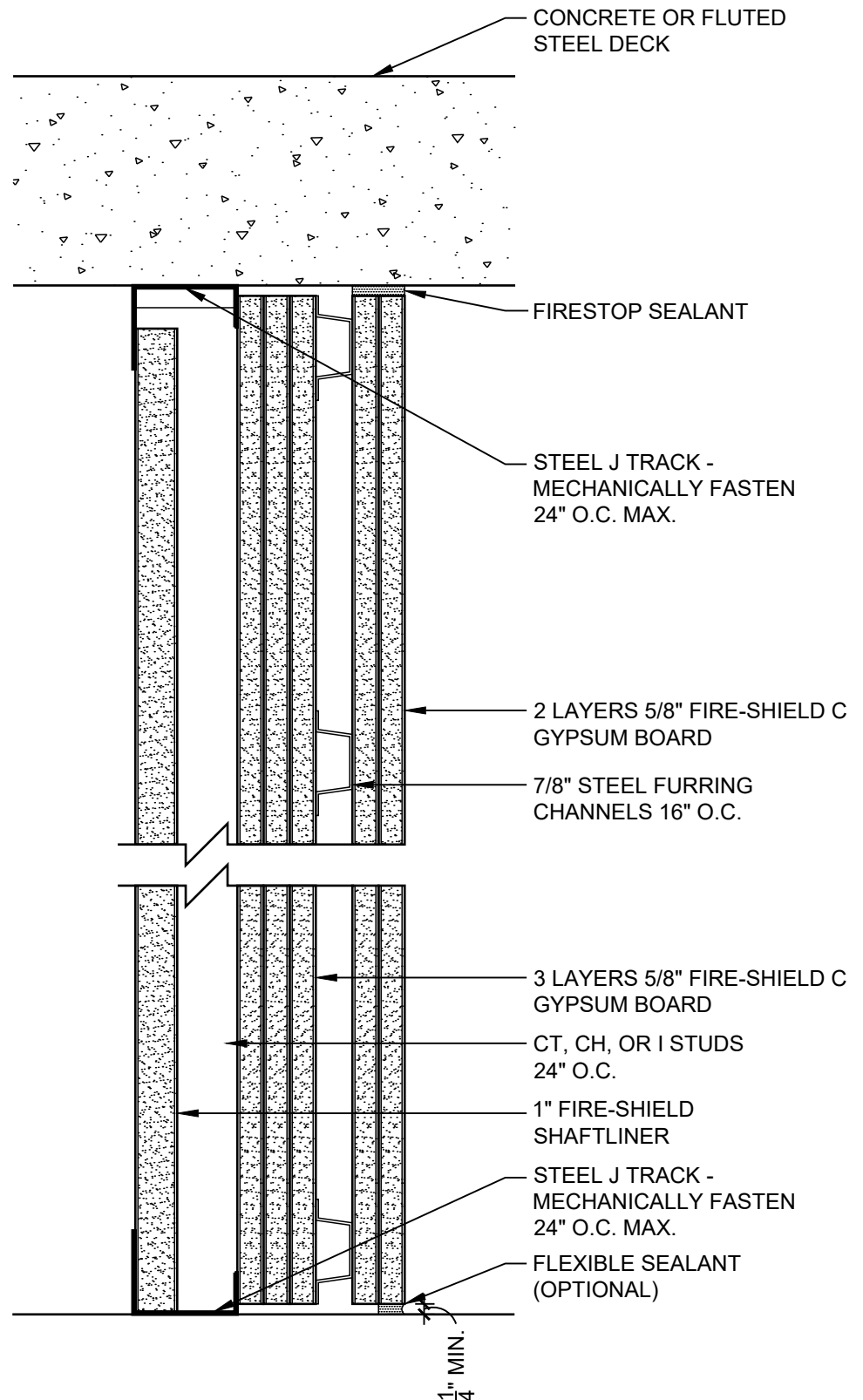
DATE: 09/01/18

3 HOUR SHAFTWALL WITH DEFLECTION TRACK

SCALE: 3"=1'-0"

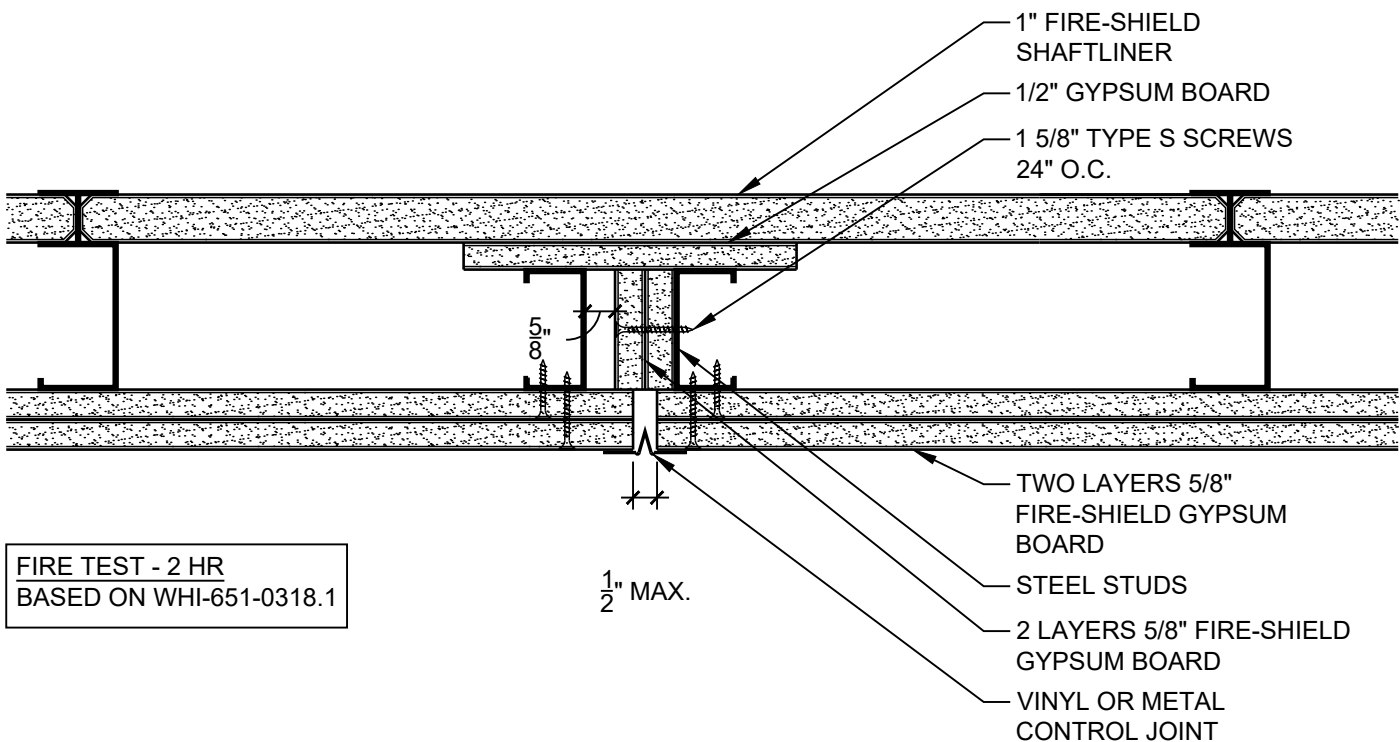
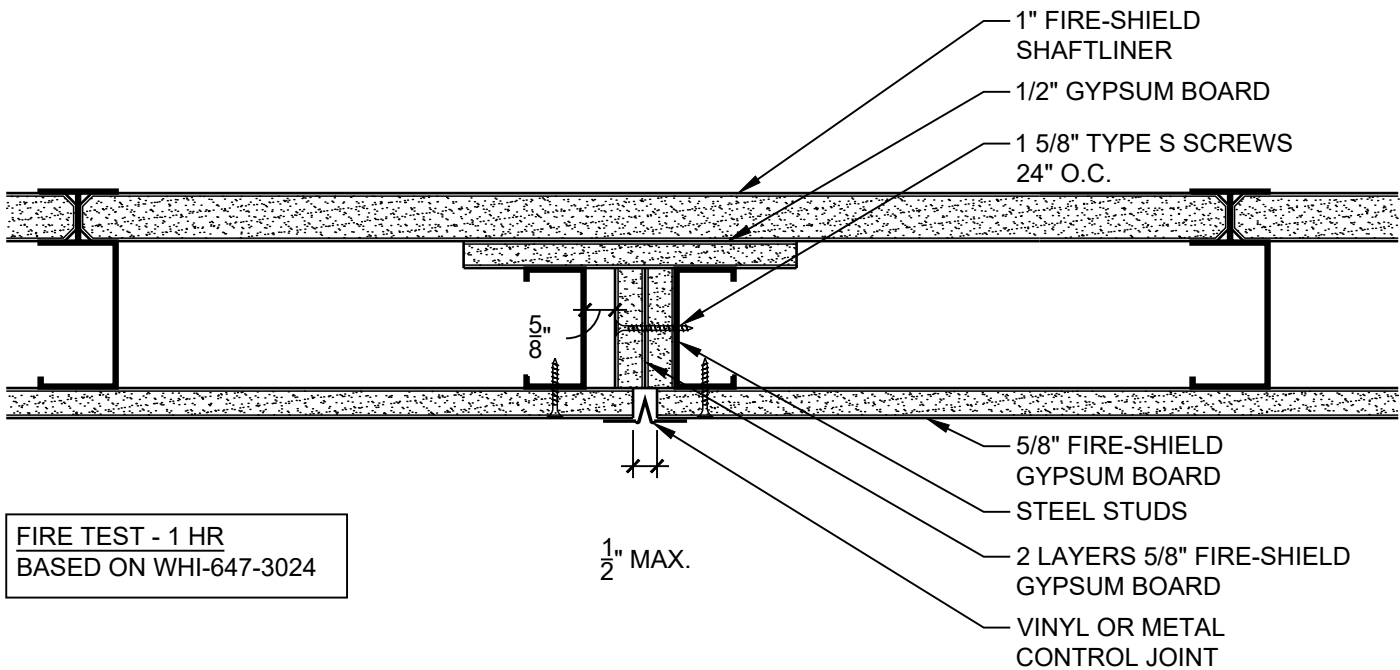
DETAIL: SW 301

National
Gypsum

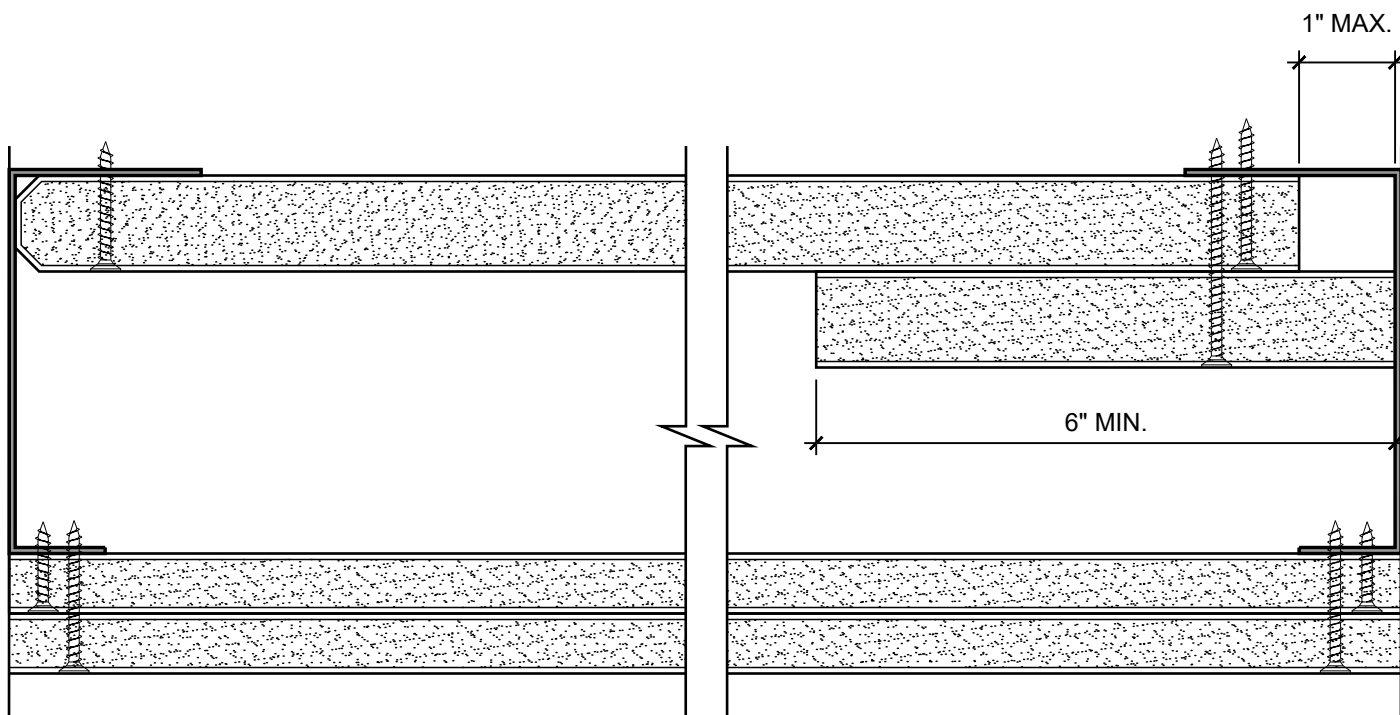


PARTITION - 4 HR
UL DESIGN: V451
UL DESIGN: W419

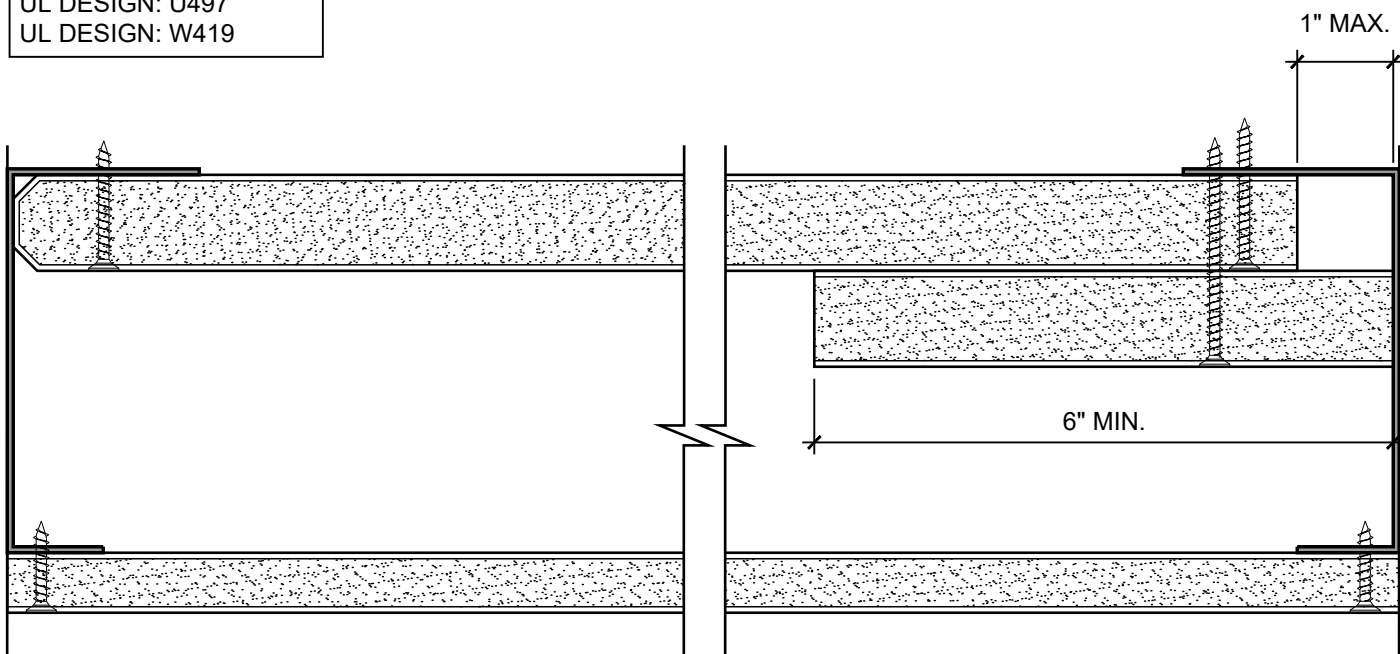
DATE: 09/01/18	4 HOUR SHAFTWALL PARTITION	
SCALE: 3"=1'-0"	DETAIL: SW 401	



DATE: 09/01/18	CONTROL JOINTS FOR SHAFTWALL SYSTEMS	
SCALE: 3"=1'-0"	DETAIL: SW 501	

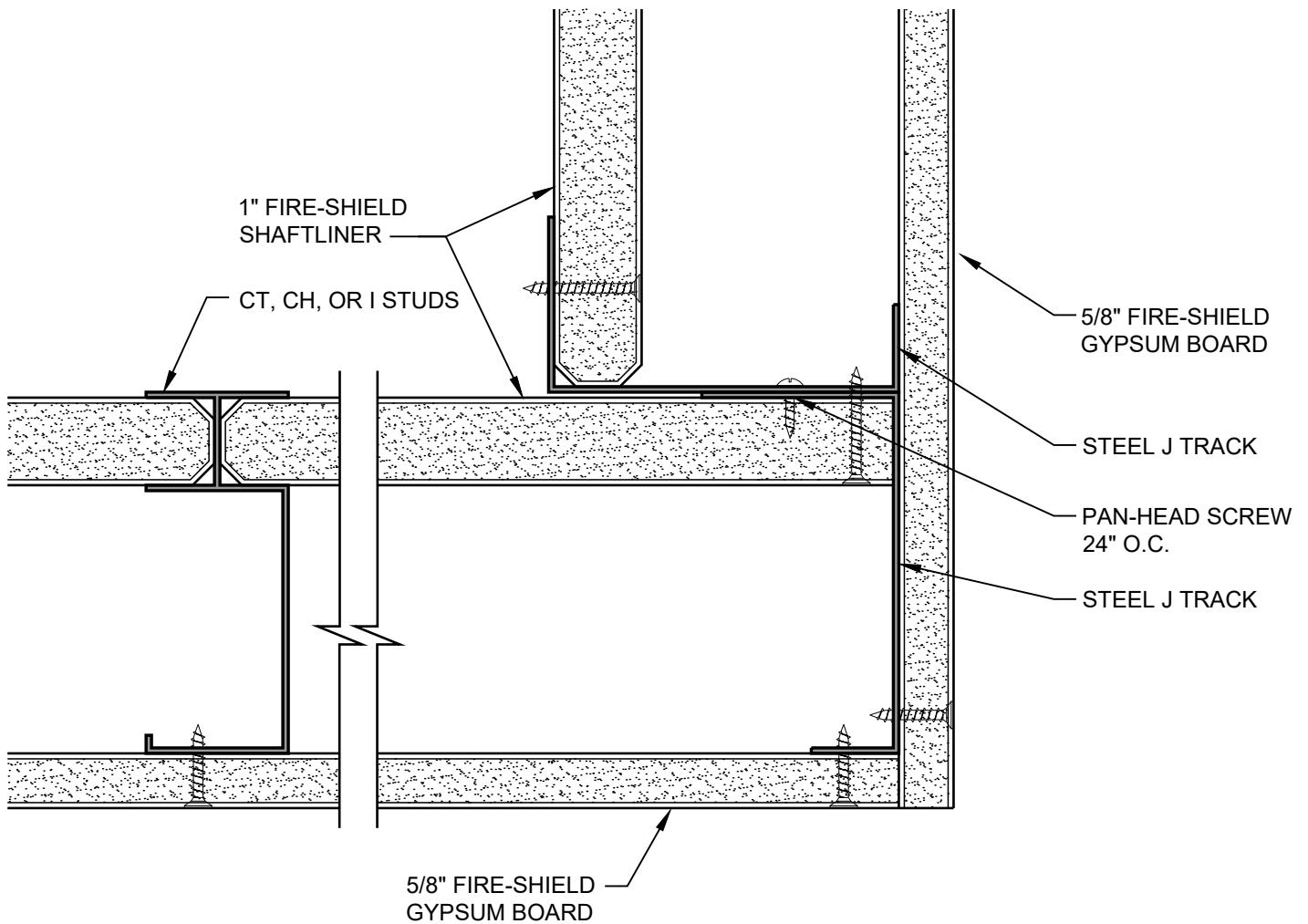


PARTITION - 2 HR
UL DESIGN: U497
UL DESIGN: W419



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

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



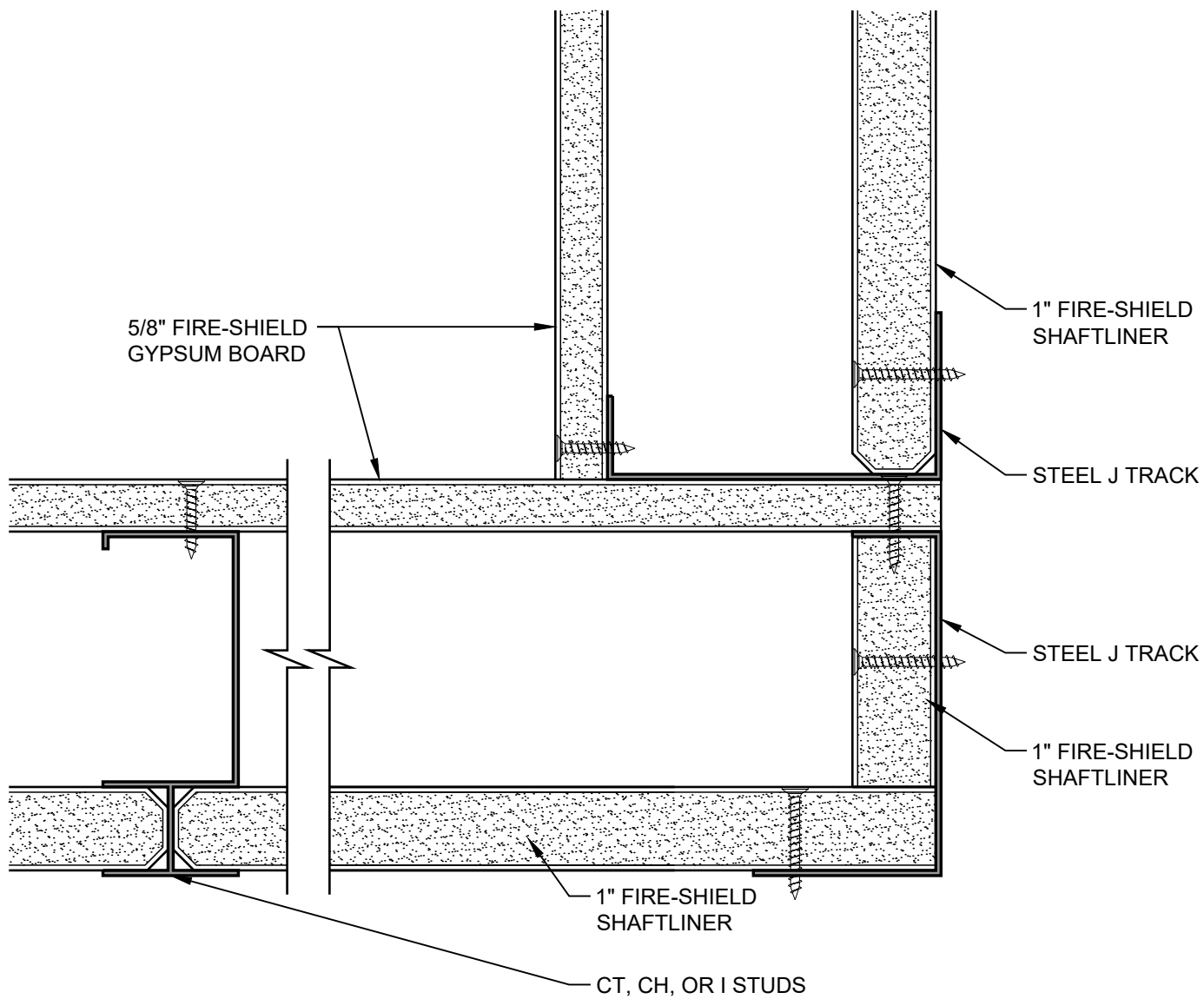
DATE: 09/01/18

1 HOUR SHAFTWALL CORNER DETAIL

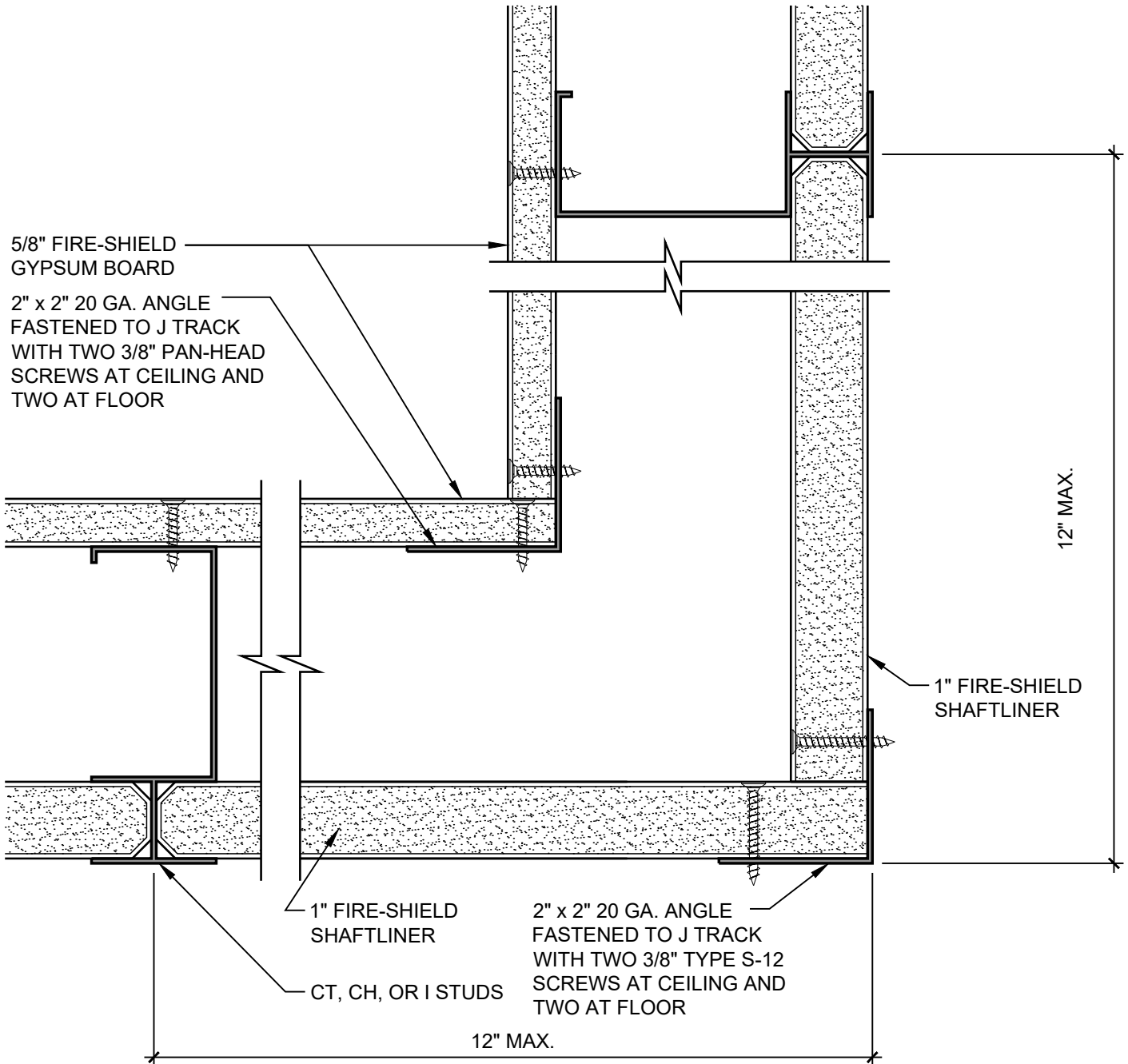


SCALE: 6"=1'-0"

DETAIL: SW 610



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



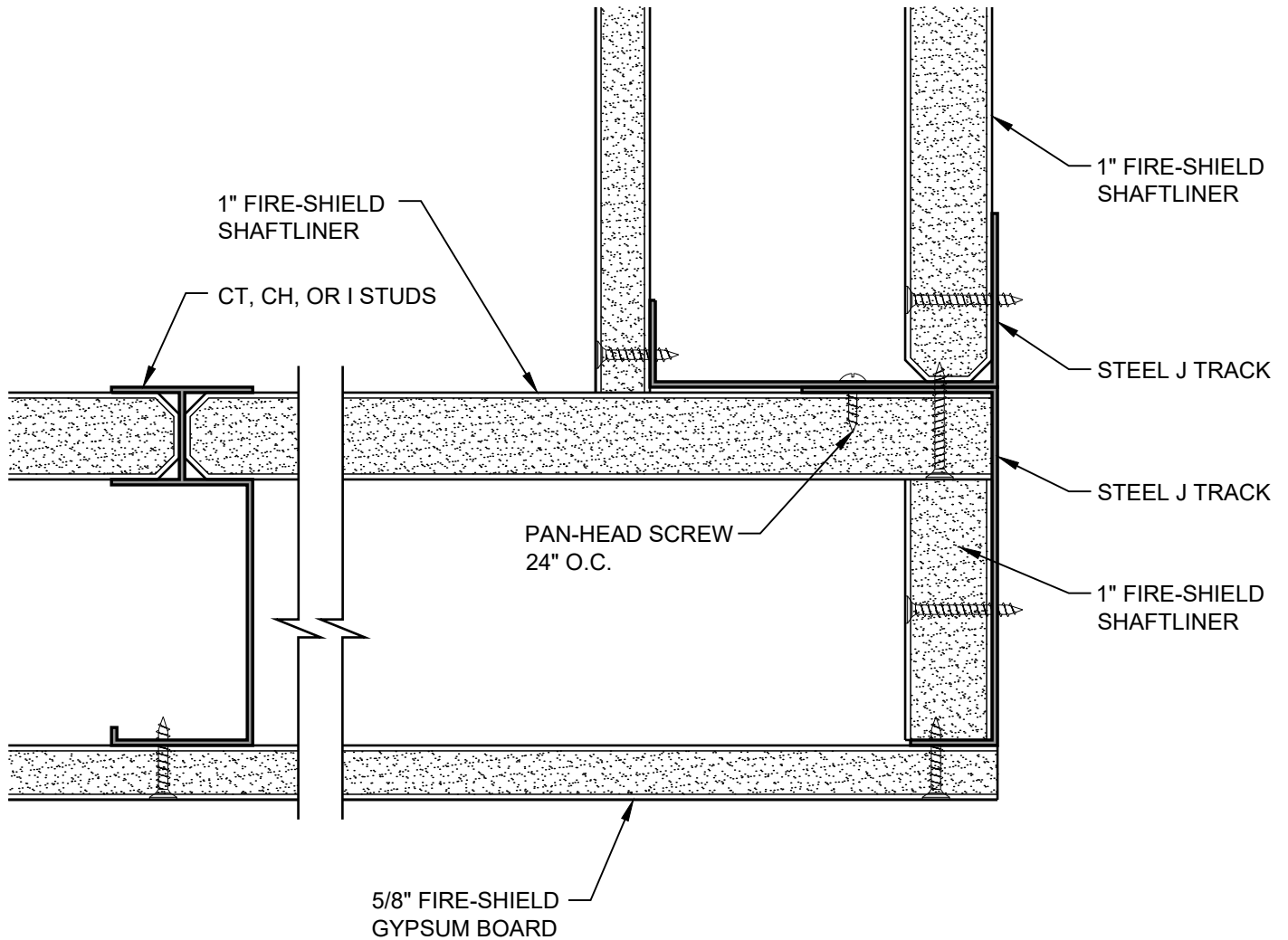
DATE: 09/01/18

1 HOUR SHAFTWALL CORNER DETAIL

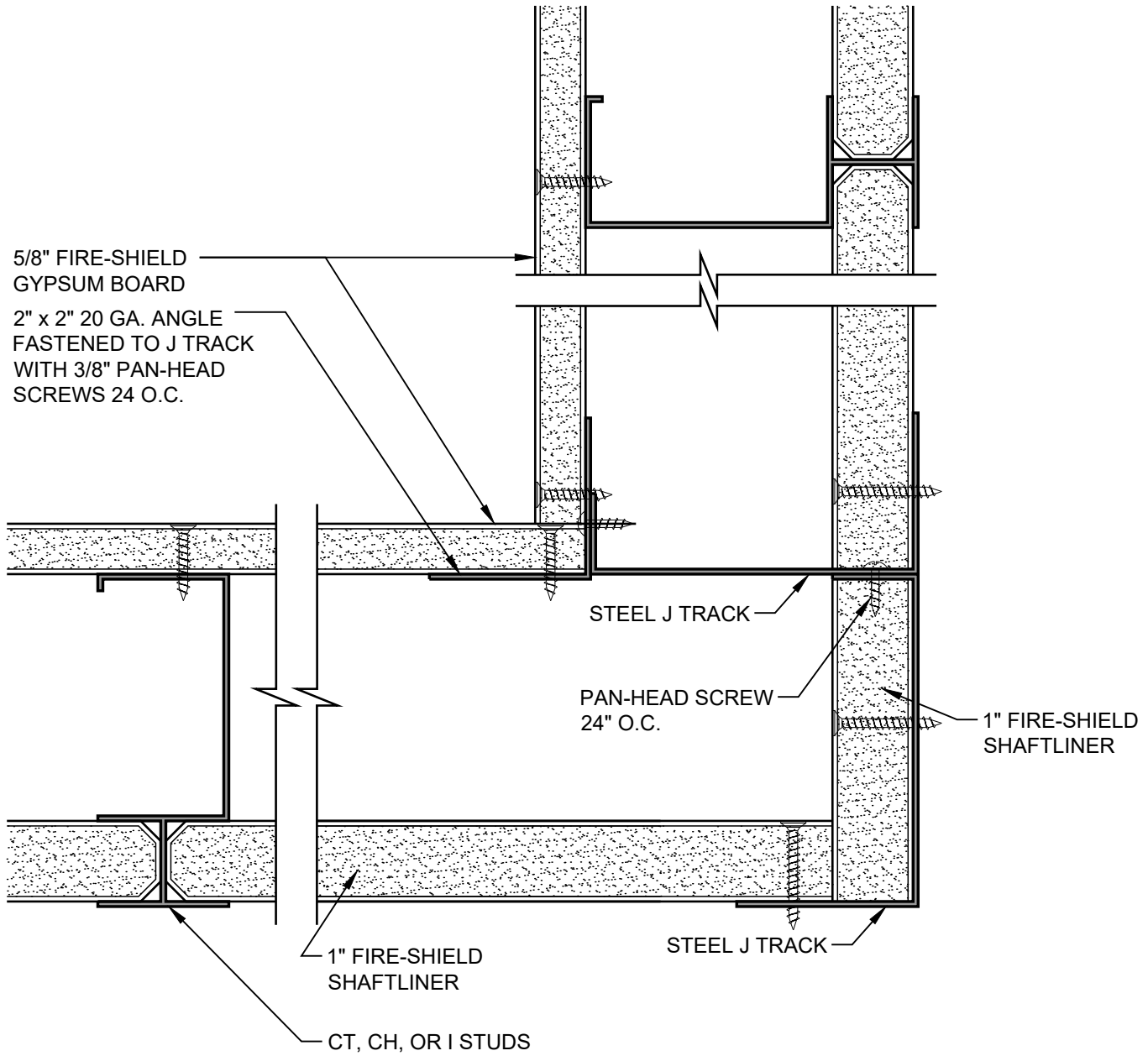
SCALE: 6"=1'-0"

DETAIL: SW 612

National
Gypsum



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



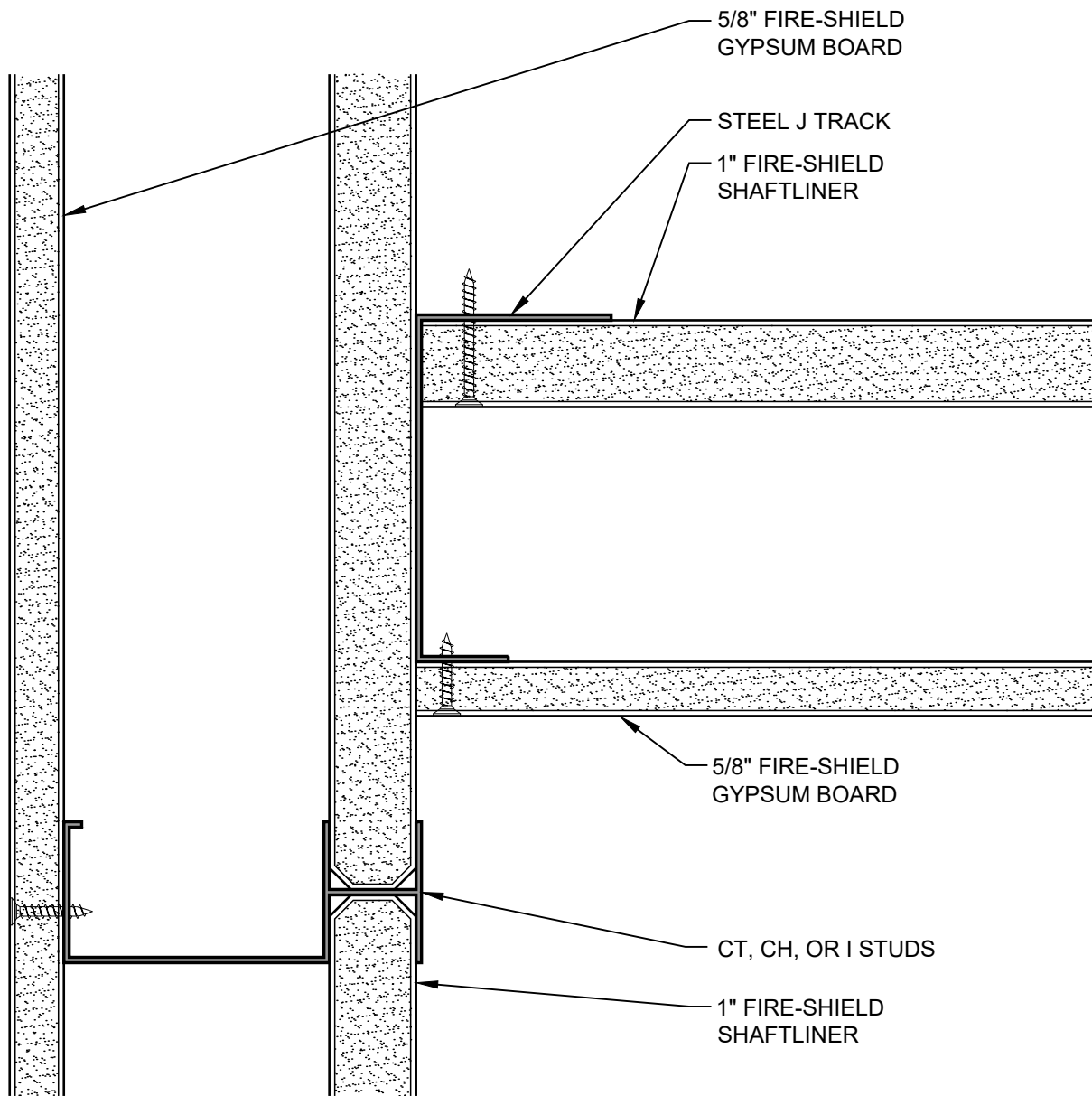
DATE: 09/01/18

1 HOUR SHAFTWALL CORNER DETAIL

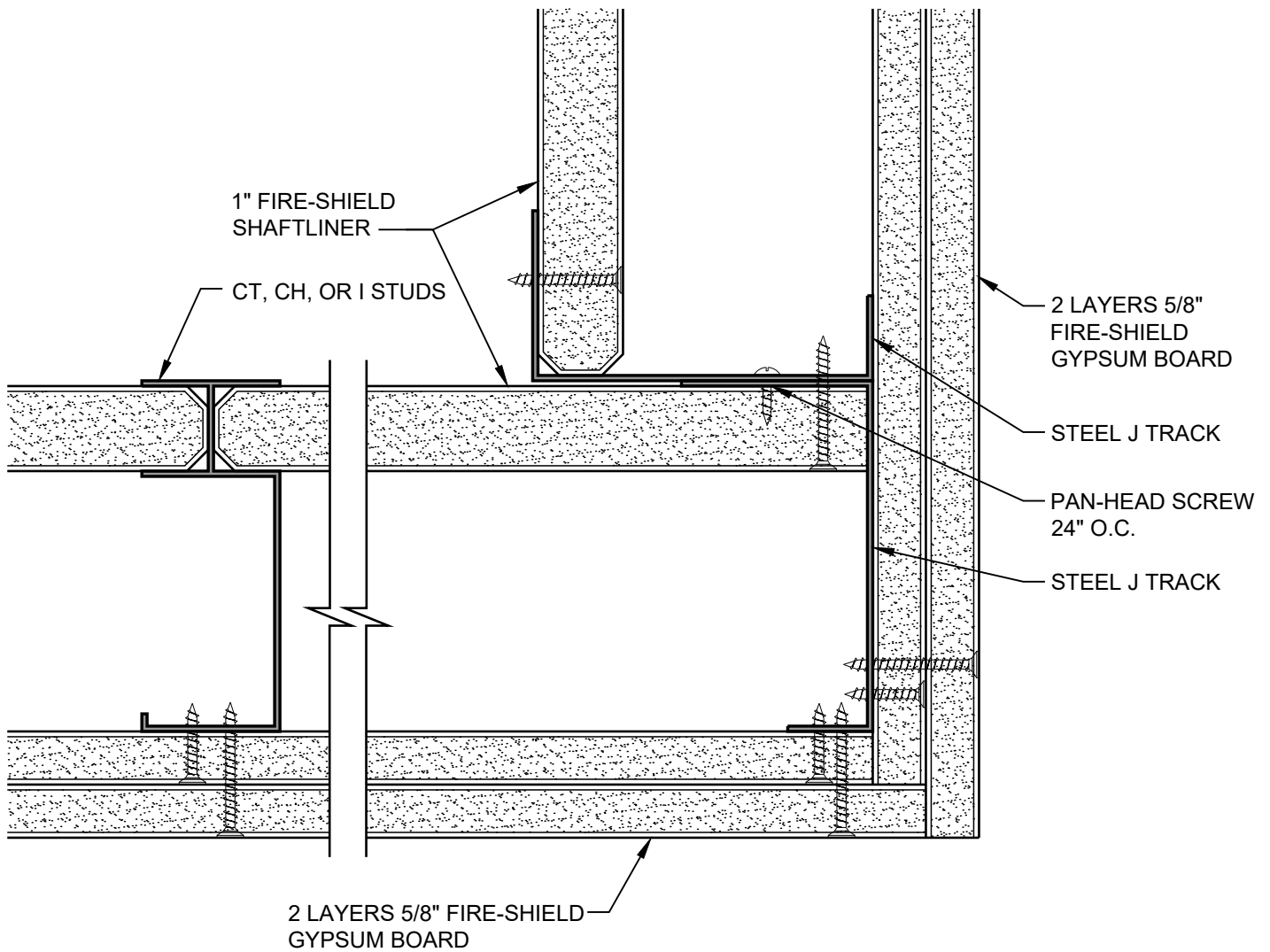
SCALE: 6"=1'-0"

DETAIL: SW 614

National
Gypsum



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



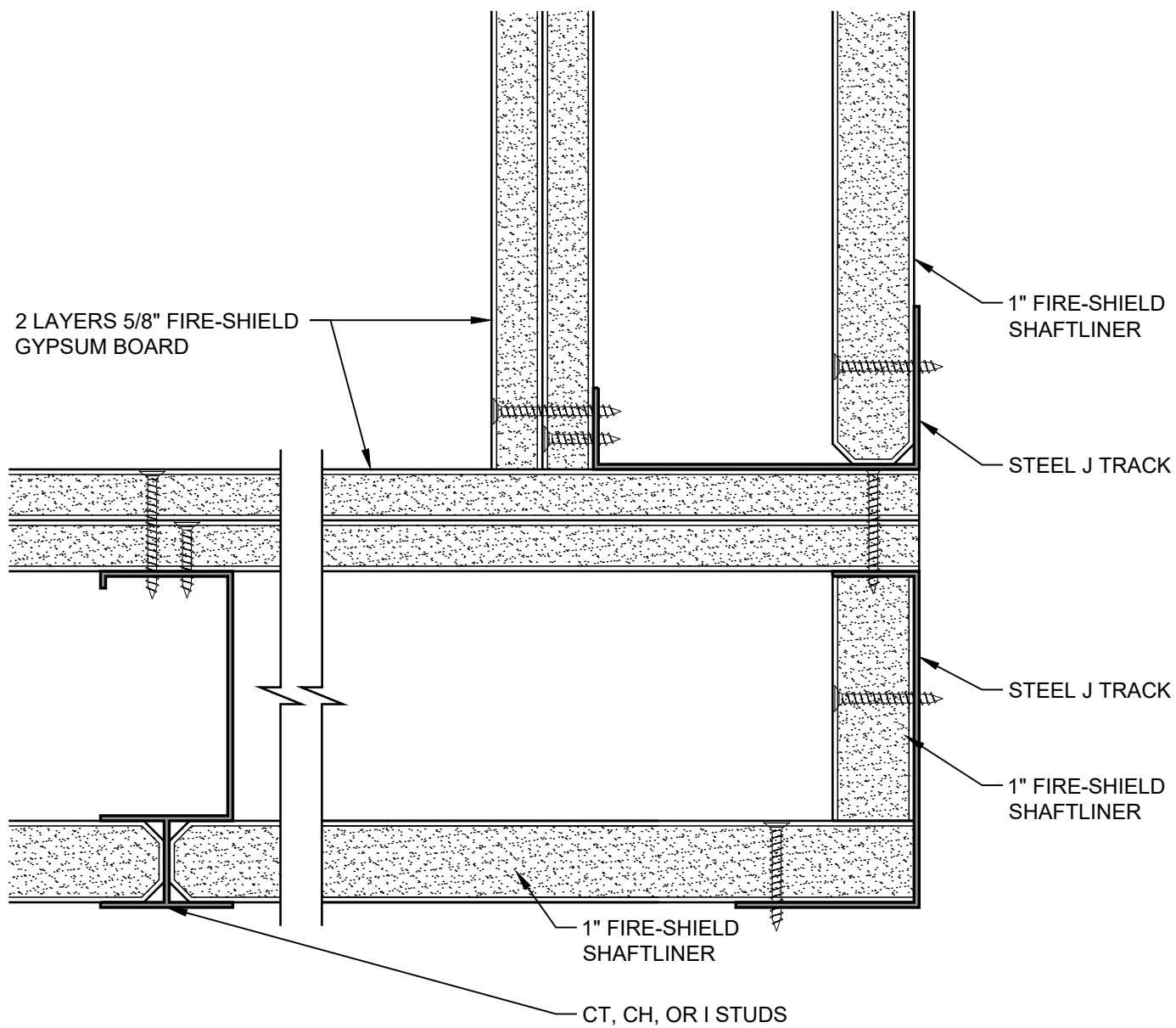
DATE: 09/01/18

2 HOUR SHAFTWALL CORNER DETAIL

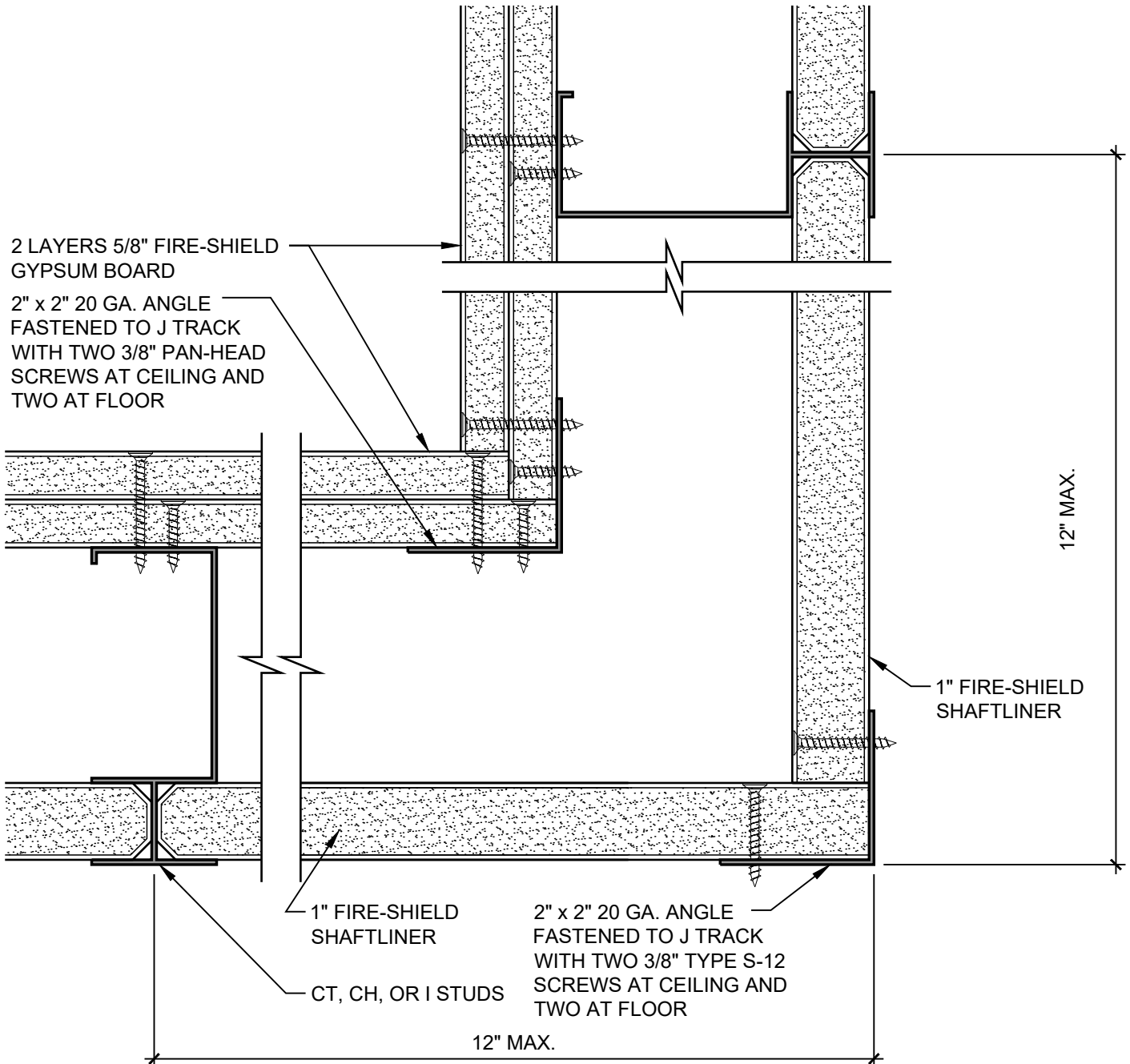
SCALE: 6"=1'-0"

DETAIL: SW 620

National
Gypsum



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



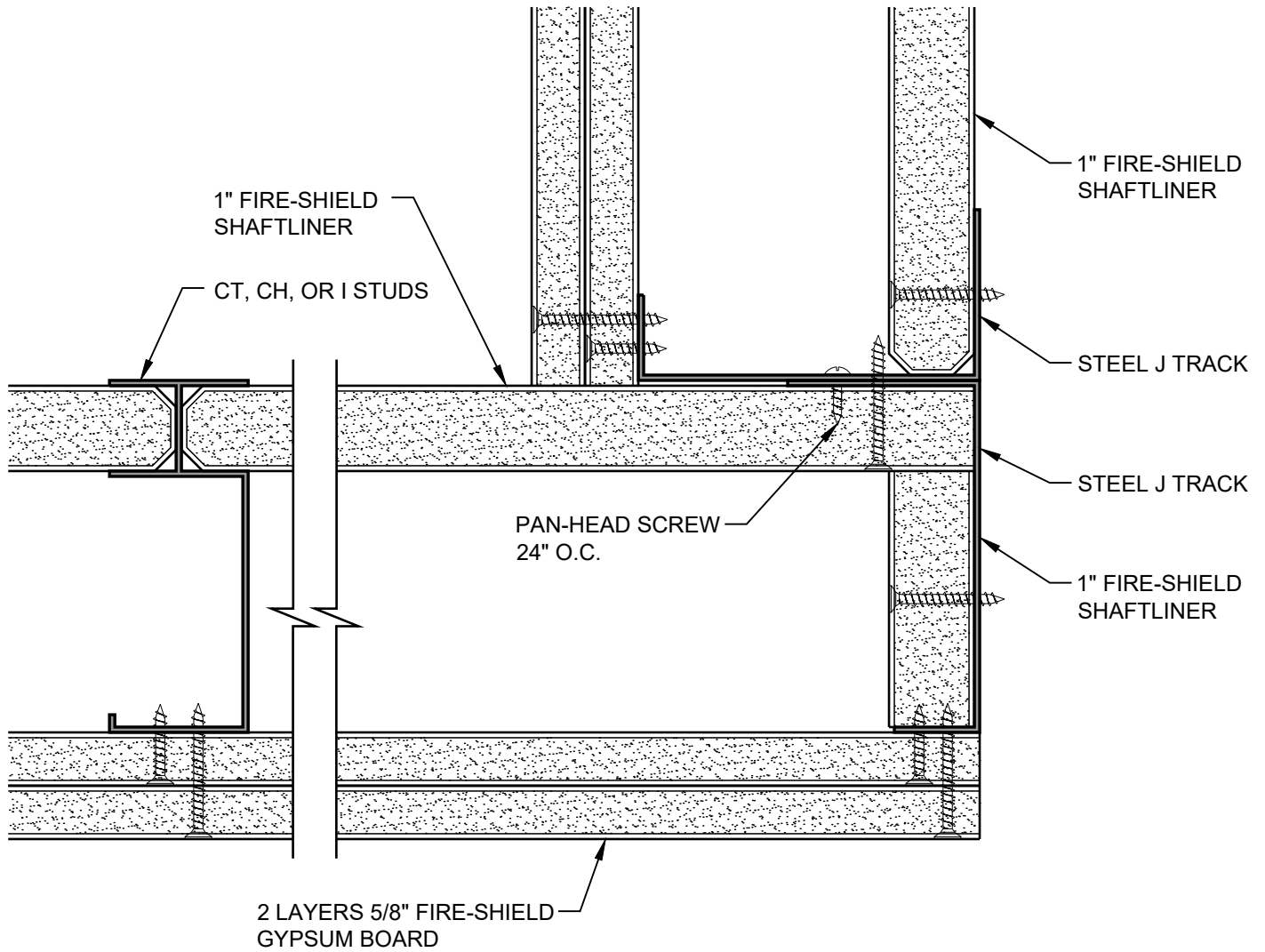
DATE: 09/01/18

2 HOUR SHAFTWALL CORNER DETAIL

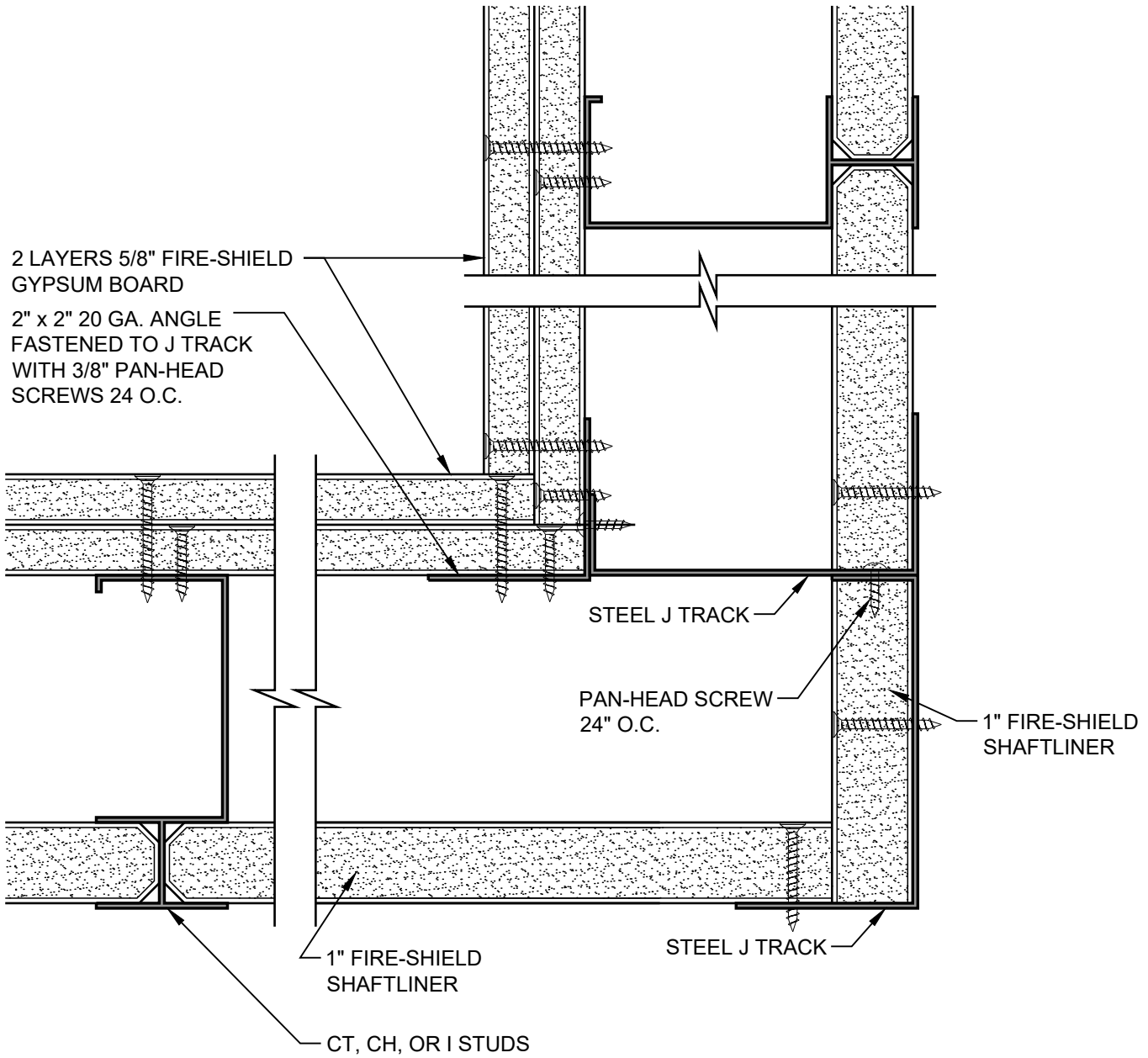
SCALE: 6"=1'-0"

DETAIL: SW 622

National
Gypsum



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



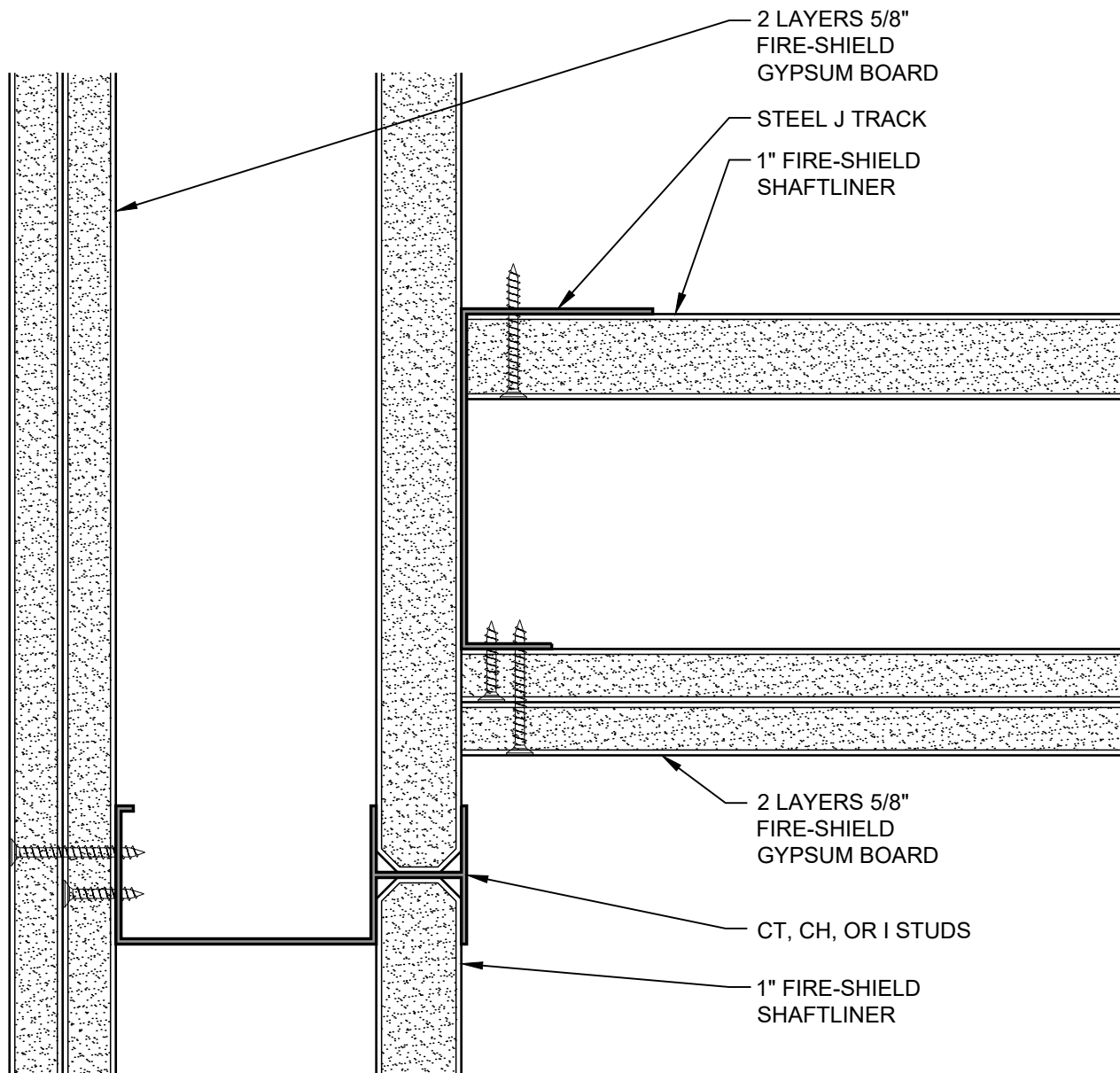
DATE: 09/01/18

2 HOUR SHAFTWALL CORNER DETAIL

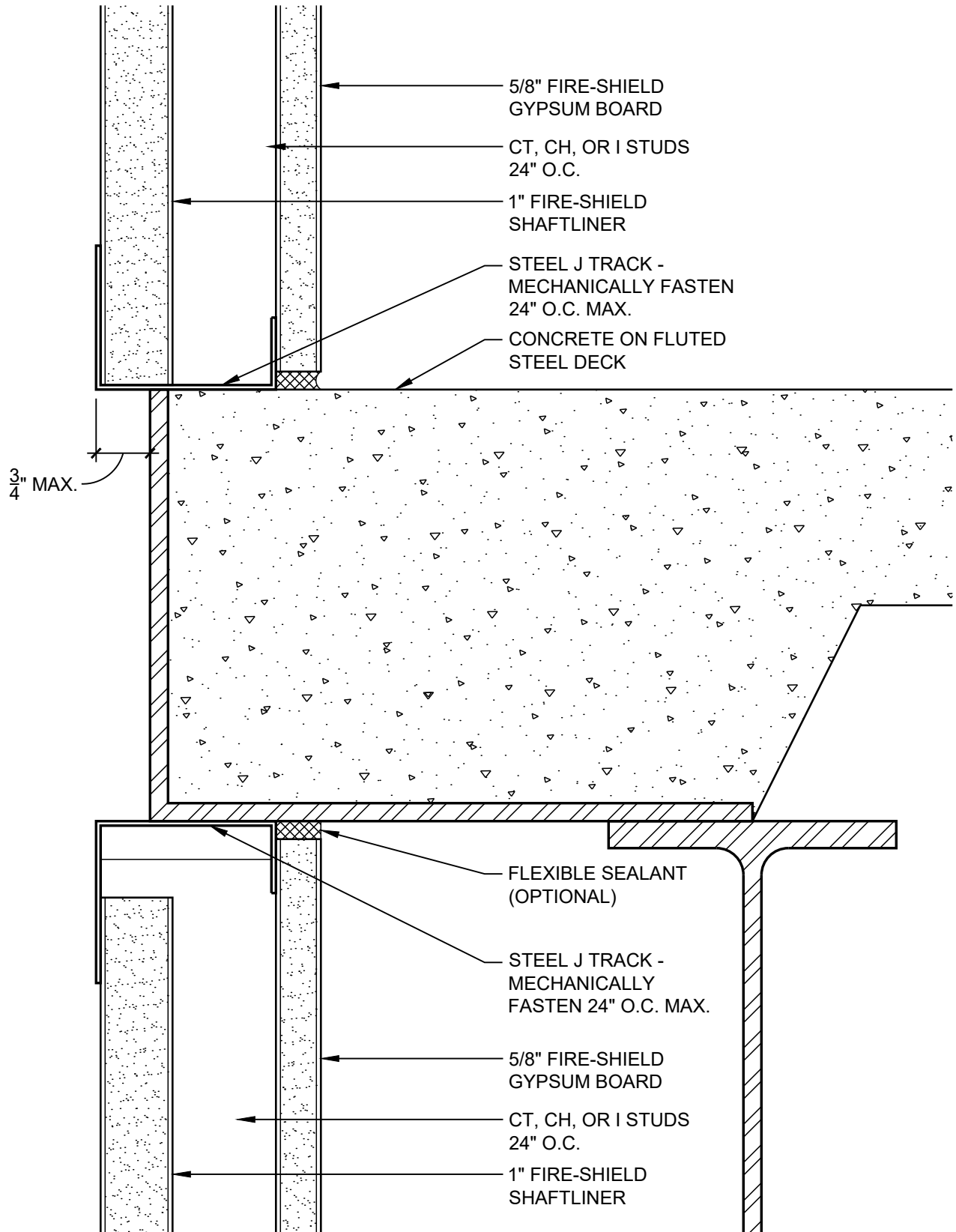
SCALE: 6"=1'-0"

DETAIL: SW 624

National
Gypsum



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



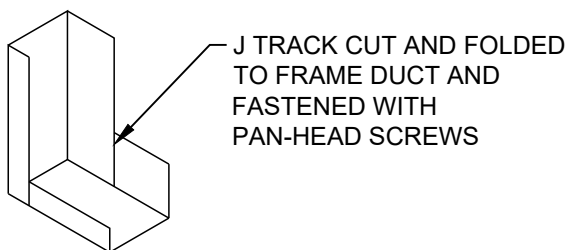
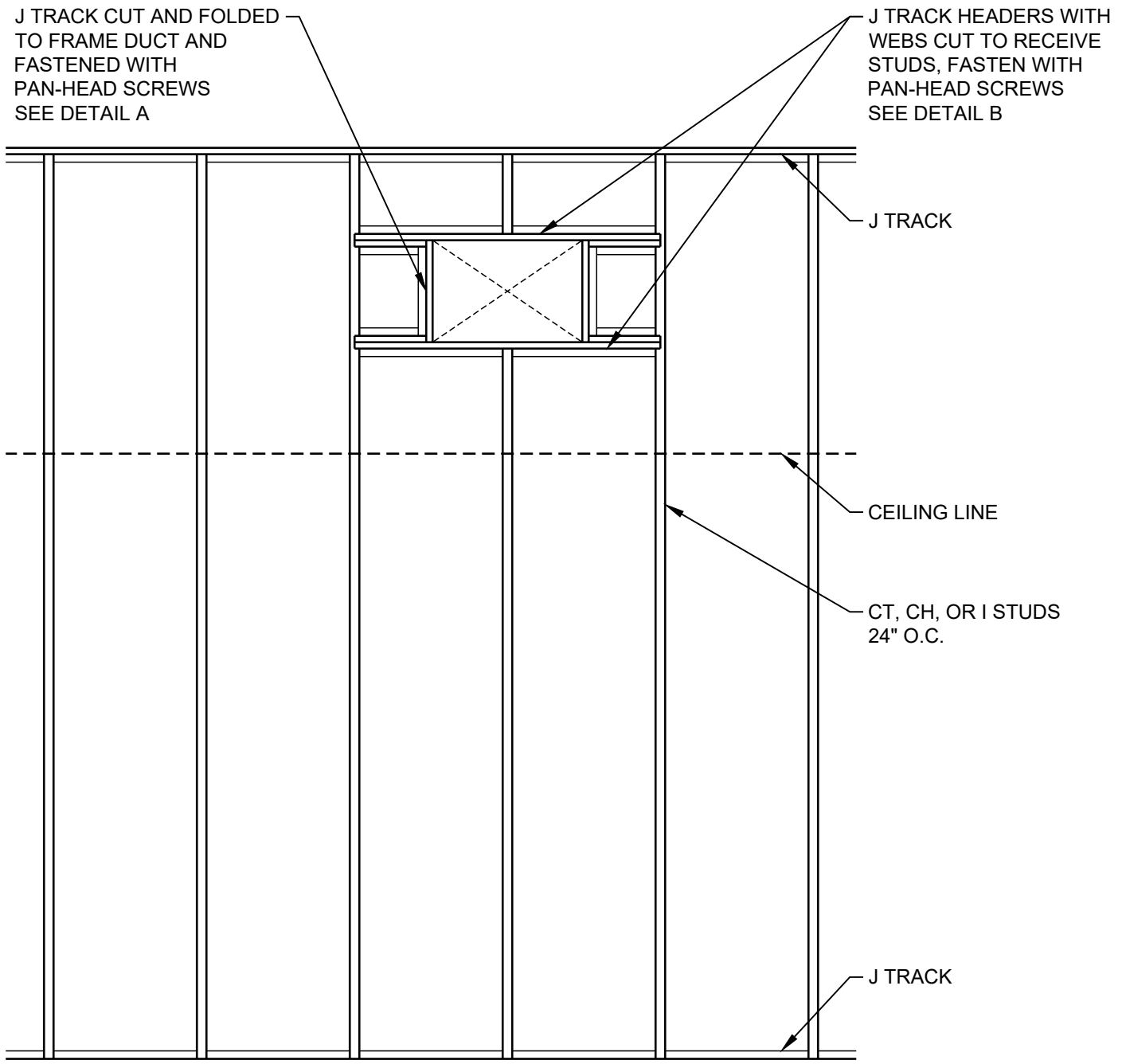
DATE: 09/01/18

SHAFTWALL OVERHANG AT SLAB EDGE

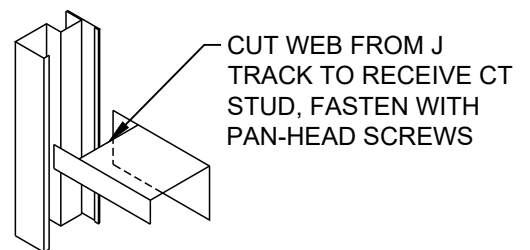
SCALE: 6"=1'-0"

DETAIL: SW 650

National
Gypsum

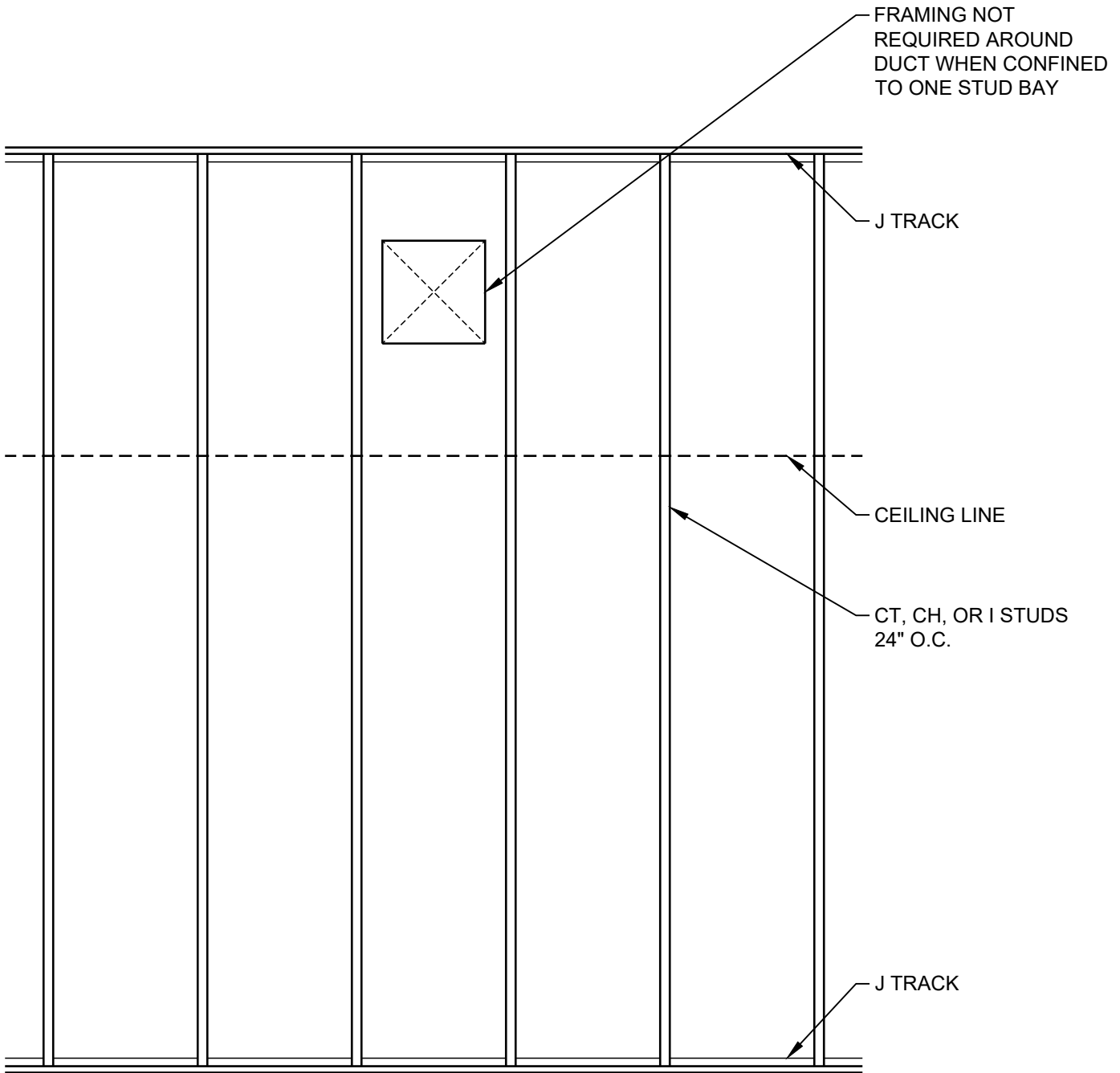


DETAIL A



DETAIL B

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



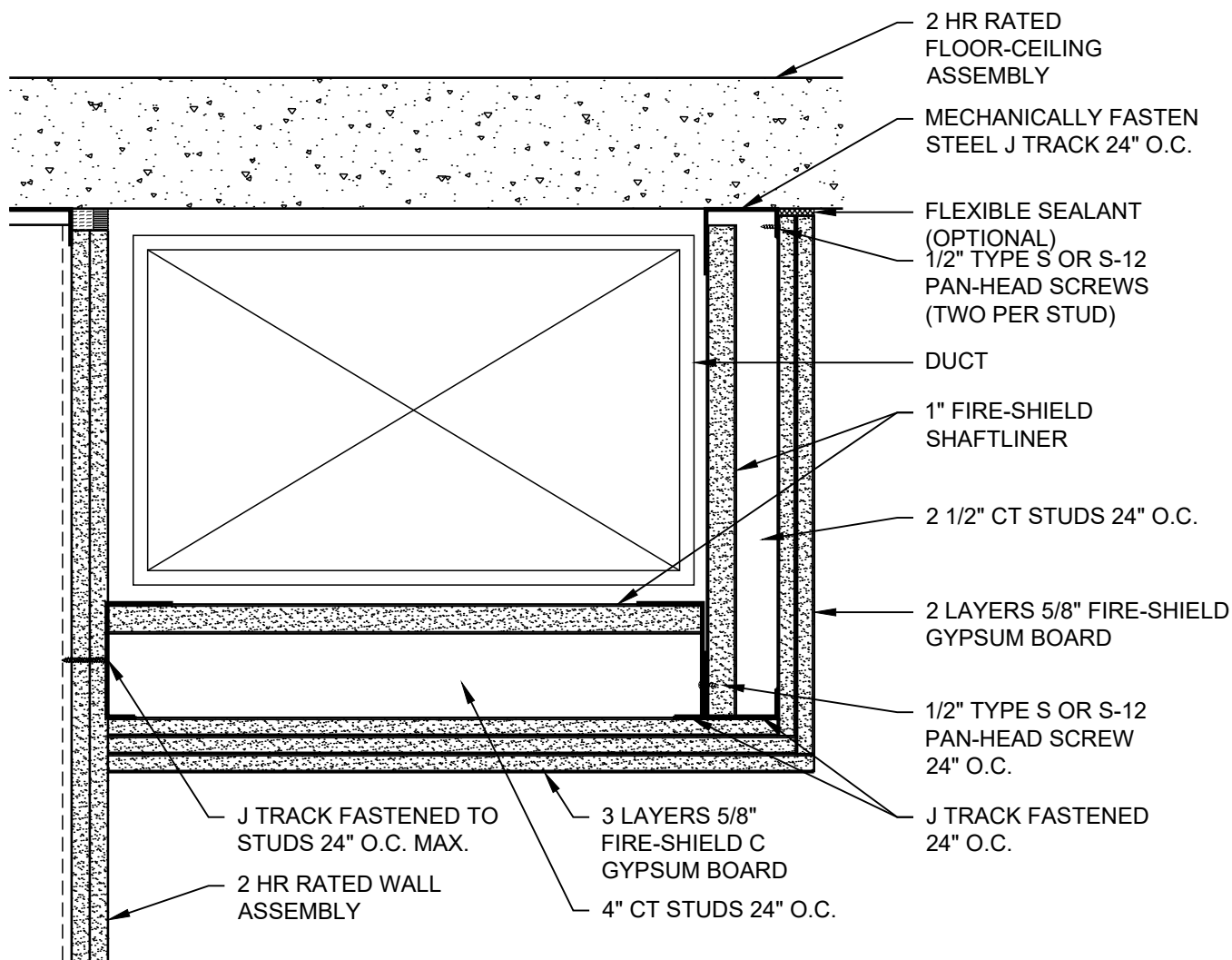
DATE: 09/01/18

SHAFTWALL FRAMING AT DUCT PENETRATION

SCALE: 1/2"=1'-0"

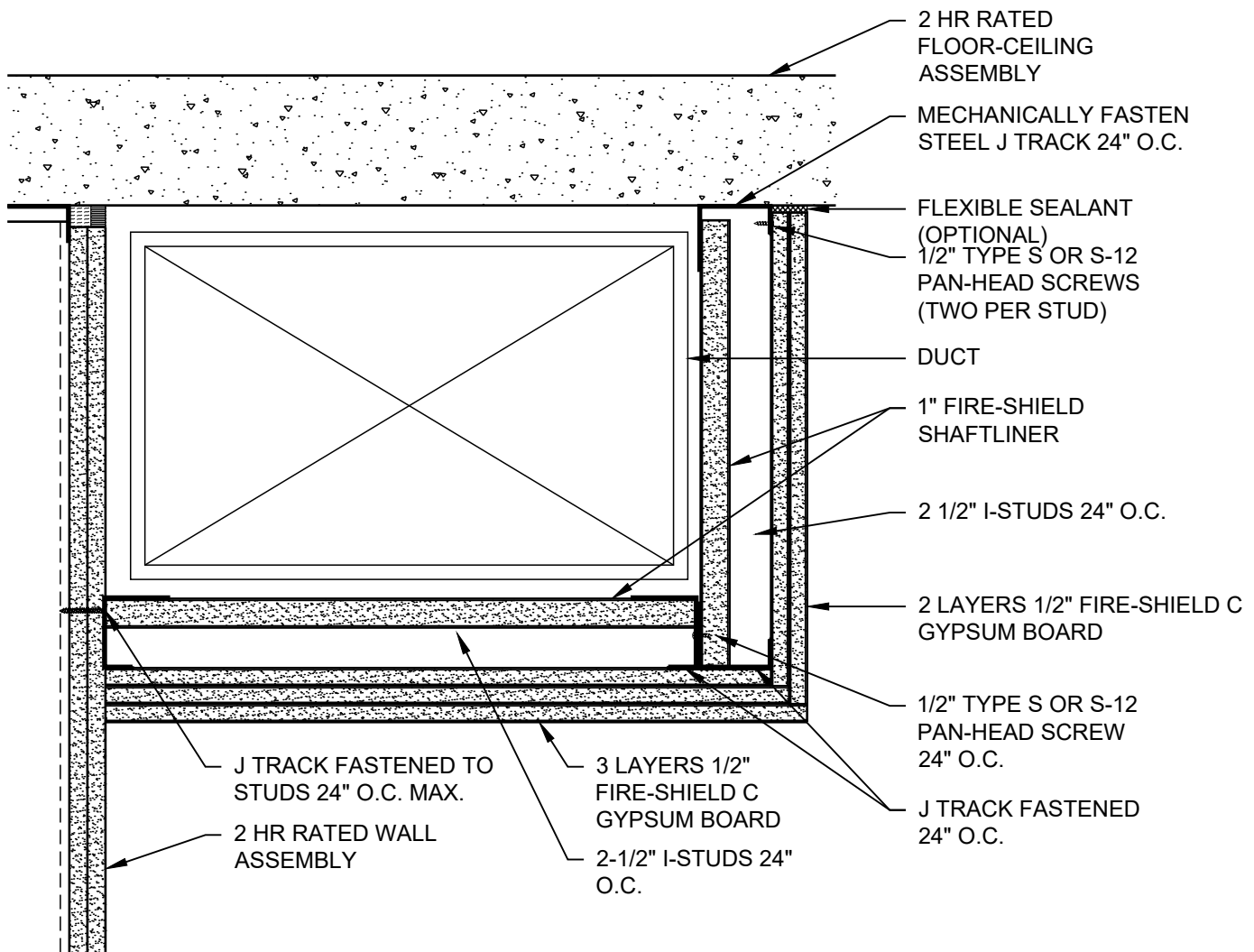
DETAIL: SW 702

National
Gypsum



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

DATE: 09/01/18	2 HOUR HORIZONTAL DUCT PROTECTION	
SCALE: 2"=1'-0"	DETAIL: SW 704	



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

SCALE: 2"=1'-0"

DETAIL: SW 705

National
Gypsum