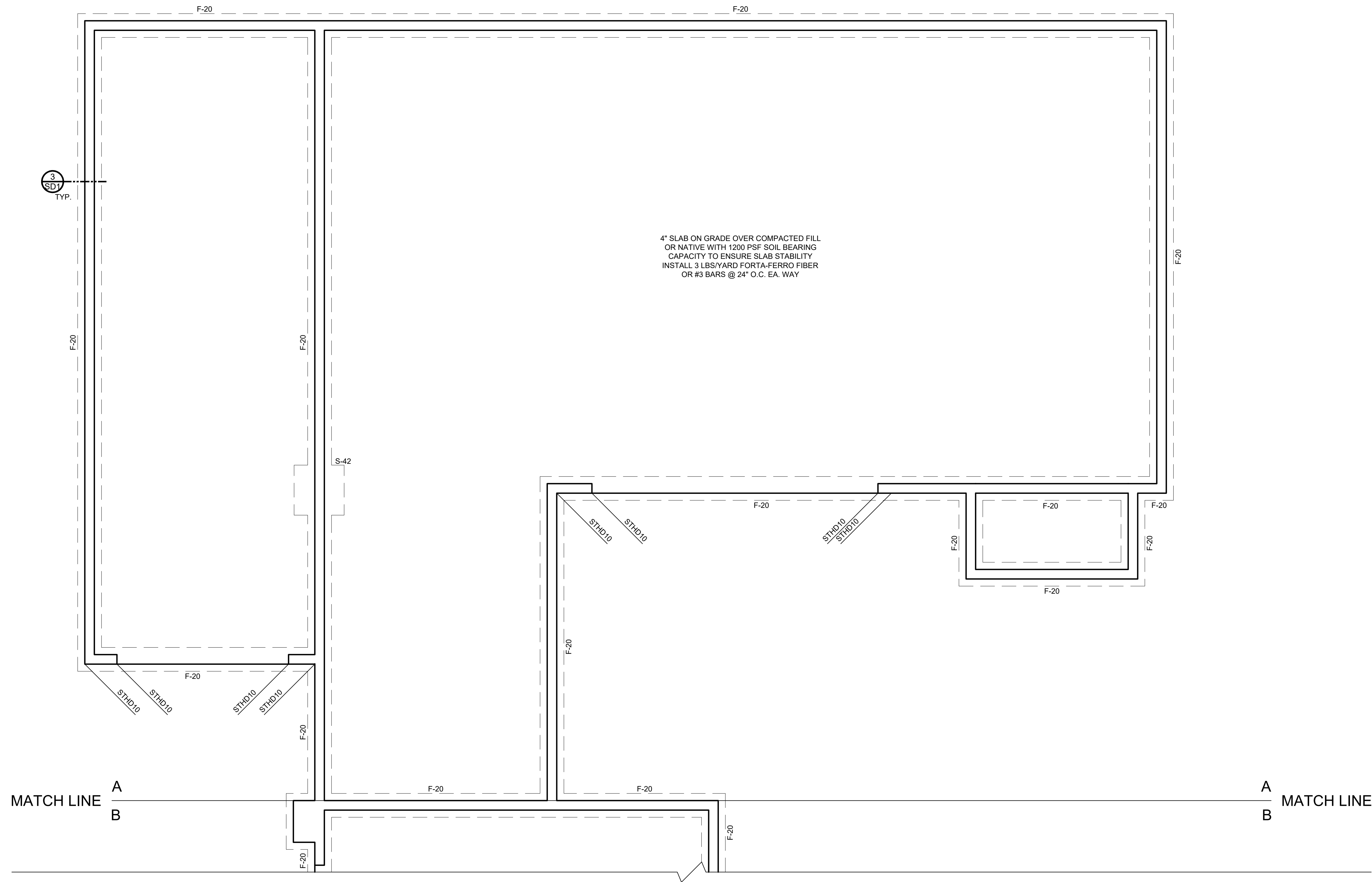
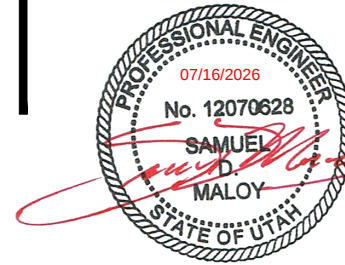




Engineer's Stamp:



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Structural Design and Analysis
720 S. River Road, Suite D2000
St. George, Utah 84790
(801)876-3501

Date	Author	Note
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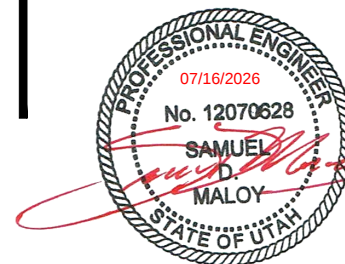
ENGINEER: CH
REVIEWER: SM

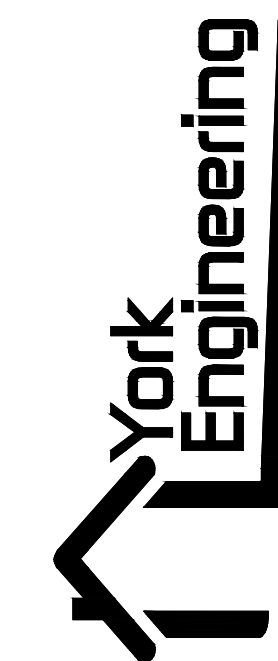
FELLER RESIDENCE
1893E, 12200 S.
DRAPER, UT

S1a

FOOTING/FOUNDATION PLAN
SCALE: 1/4"=1'-0"

Engineer's Stamp:





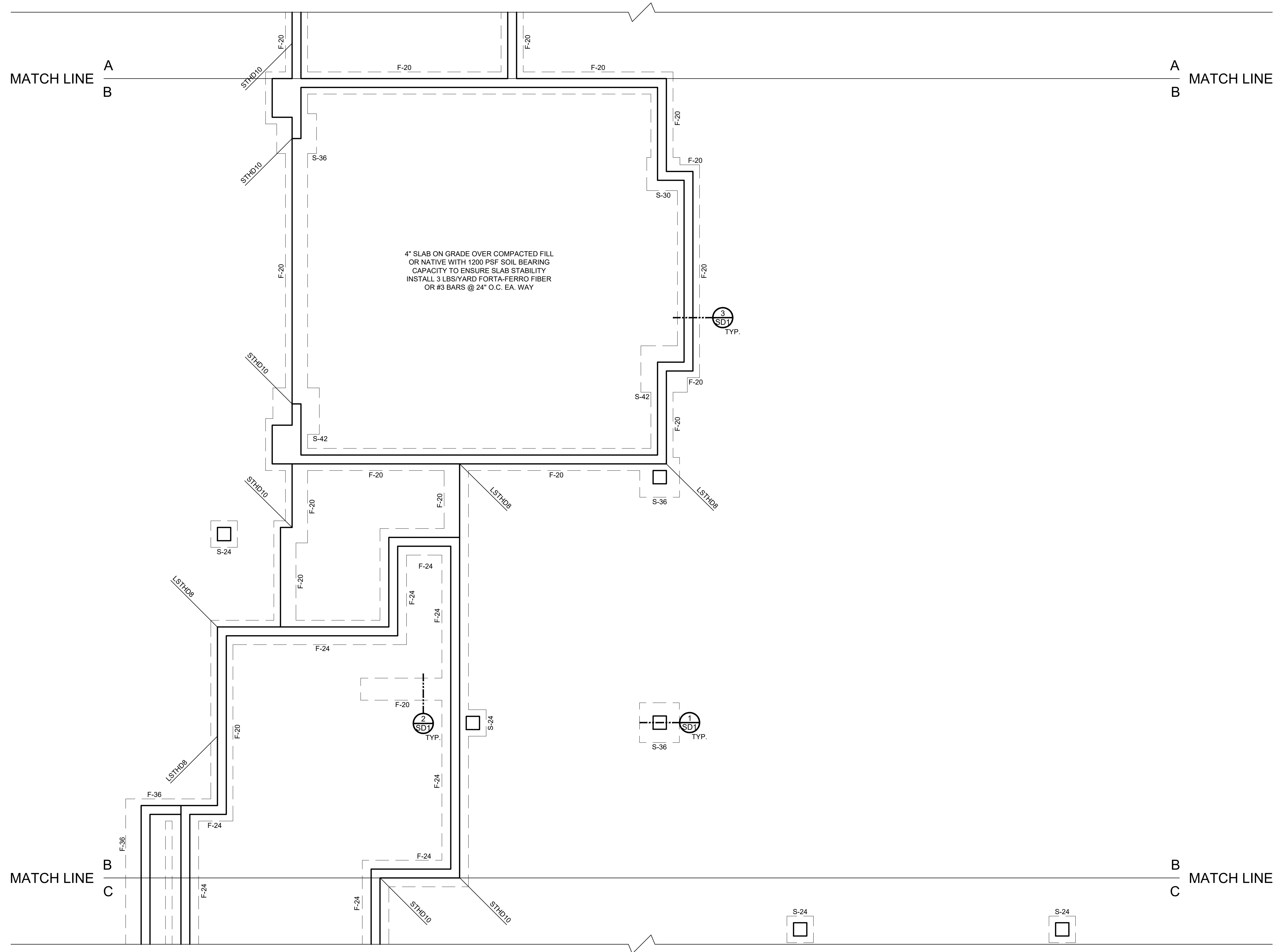
York Engineering
Structural Design and Analysis
720 S. River Road, Suite D2000
St. George, Utah 84790
(801)876-3501

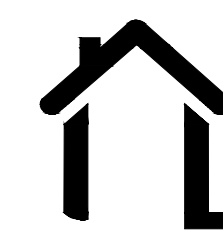
Date	Author	Note
7/15/26	CH	Submitted for permitting
1		

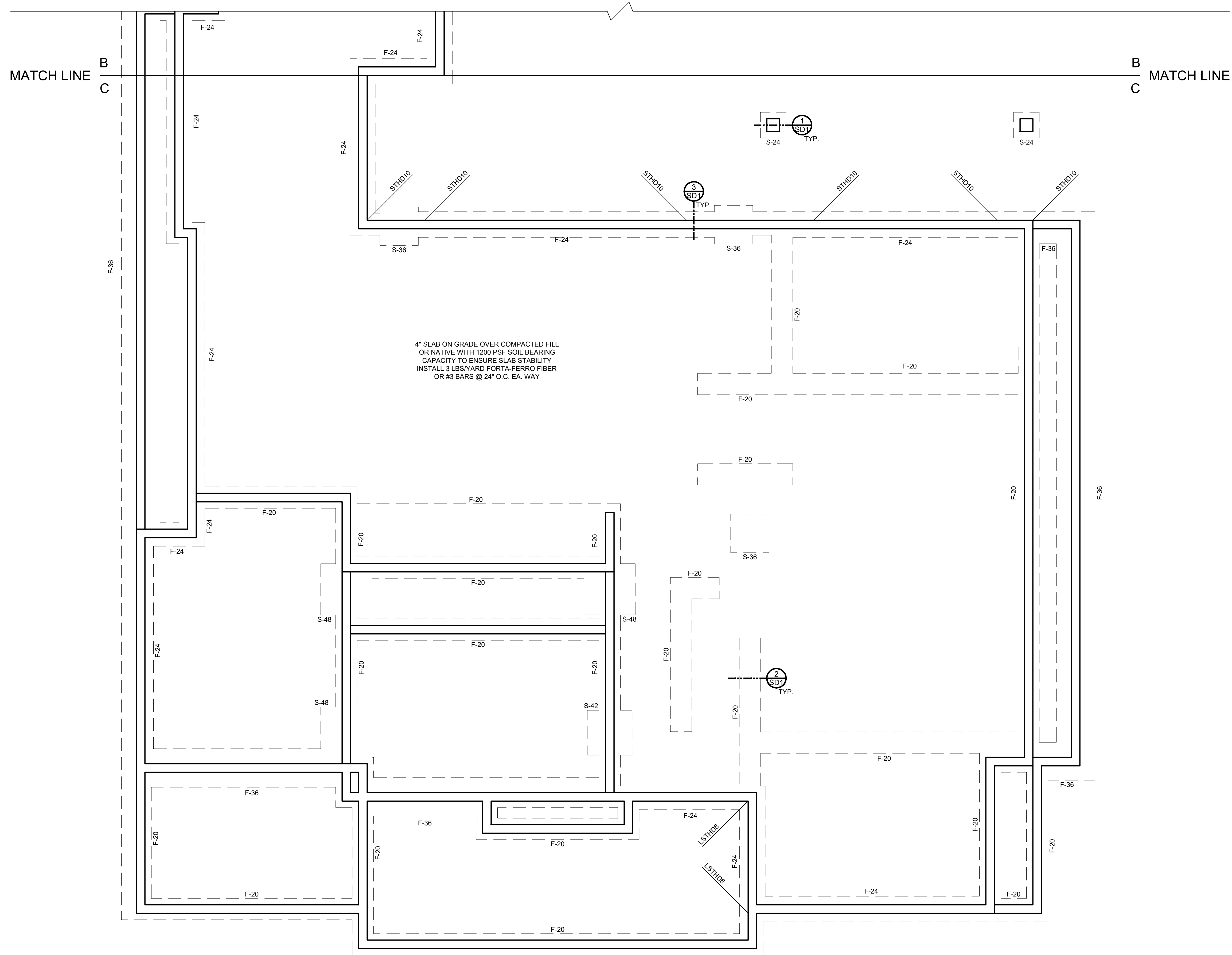
ENGINEER: CH
REVIEWER: SM

FELLER RESIDENCE
1893E. 12200 S.
DRAPER, UT

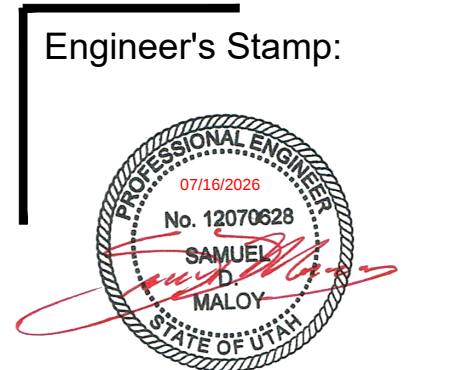
S1b



 **FOOTING/FOUNDATION PLAN**
SCALE: 1/4"=1'-0"



4" SLAB ON GRADE OVER COMPACTED FILL
OR NATIVE WITH 1200 PSF SOIL BEARING
CAPACITY TO ENSURE SLAB STABILITY
INSTALL 3 LBS/YARD FORTA-FERRO FIBER
OR #3 BARS @ 24" O.C. EA. WAY



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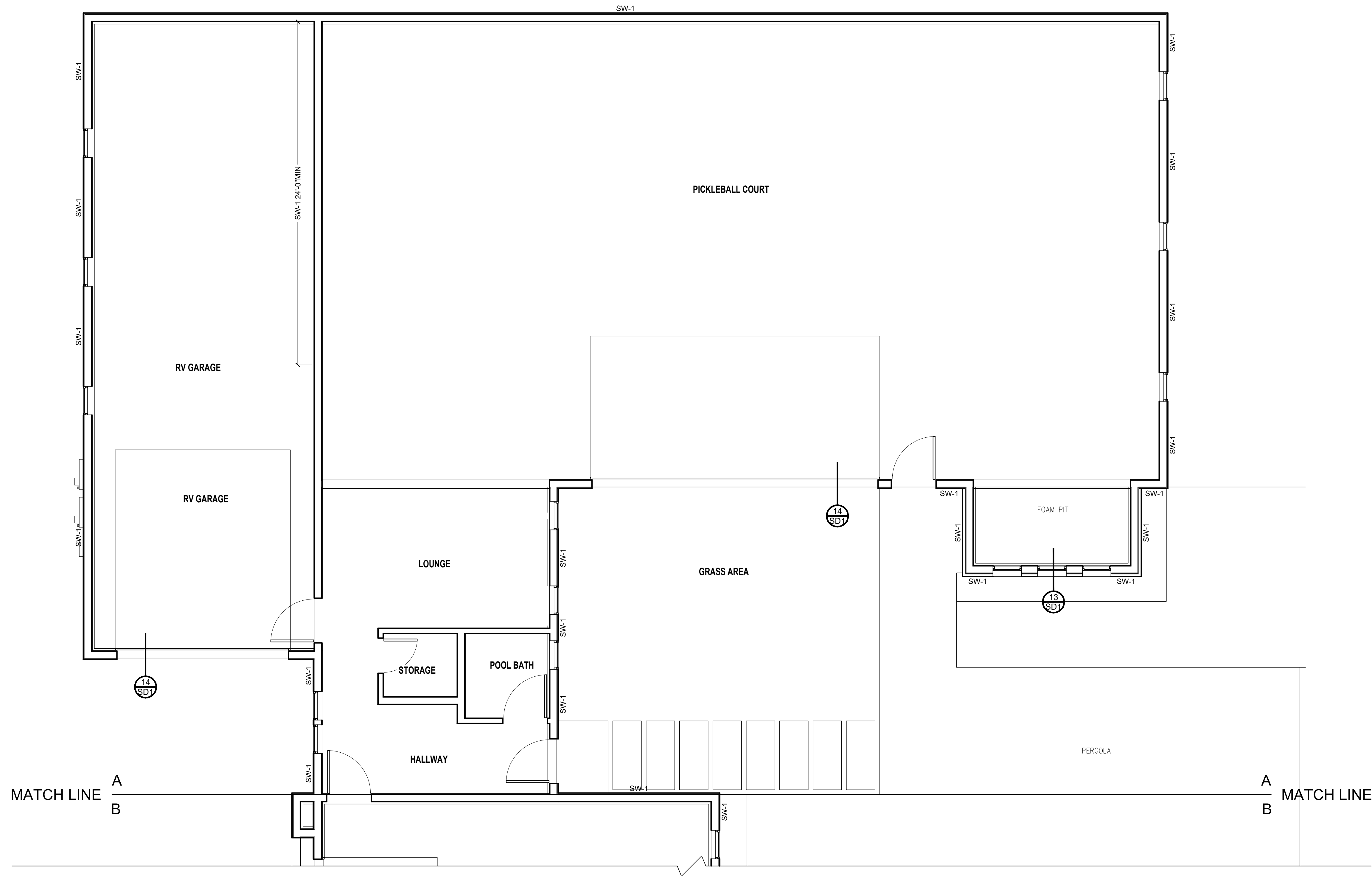
Date	Author	Note
7/15/26	CH	Submitted for permitting
1		

ENGINEER: CH
REVIEWER: SM

FELLER RESIDENCE
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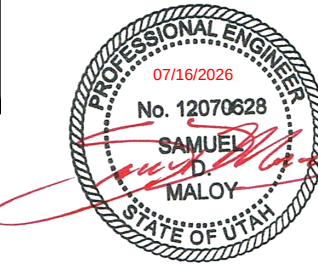
 **FOOTING/FOUNDATION PLAN**
SCALE: 1/4"=1'-0"

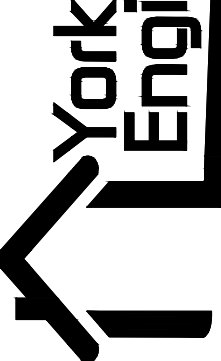
S1c



 **MAIN LEVEL SHEAR WALL PLAN**
SCALE: 1/4"=1'-0"

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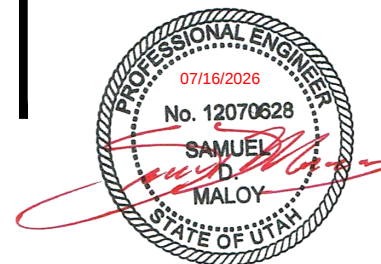
Date	Author	Note
7/15/26	CH	Submitted for permitting

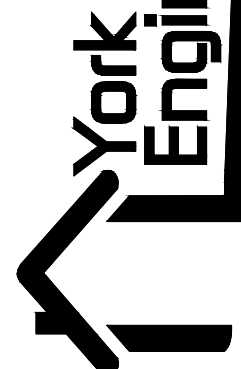
ENGINEER: CH
REVIEWER: SM

FELLER RESIDENCE
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DRAPER, UT

S2a

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Date	Author	Note
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1		

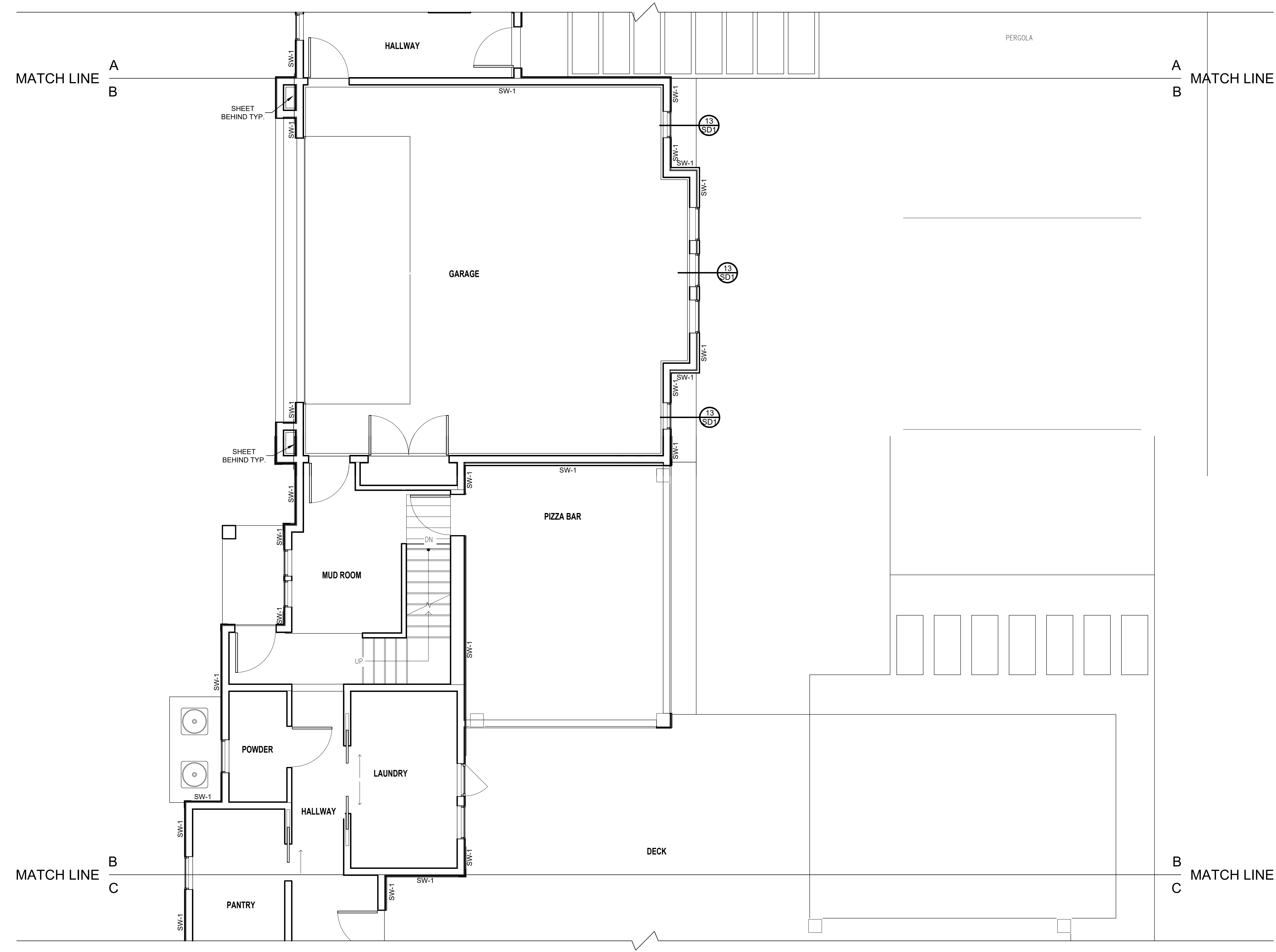
ENGINEER: CH

REVIEWER: SM

FELLER RESIDENCE

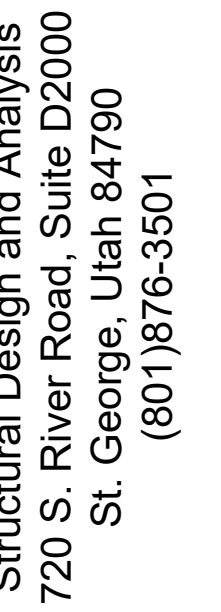
1893E, 12200 S.
DRAPER, UT

S2b



MAIN LEVEL SHEAR WALL PLAN

SCALE: 1/4"=1'-0"

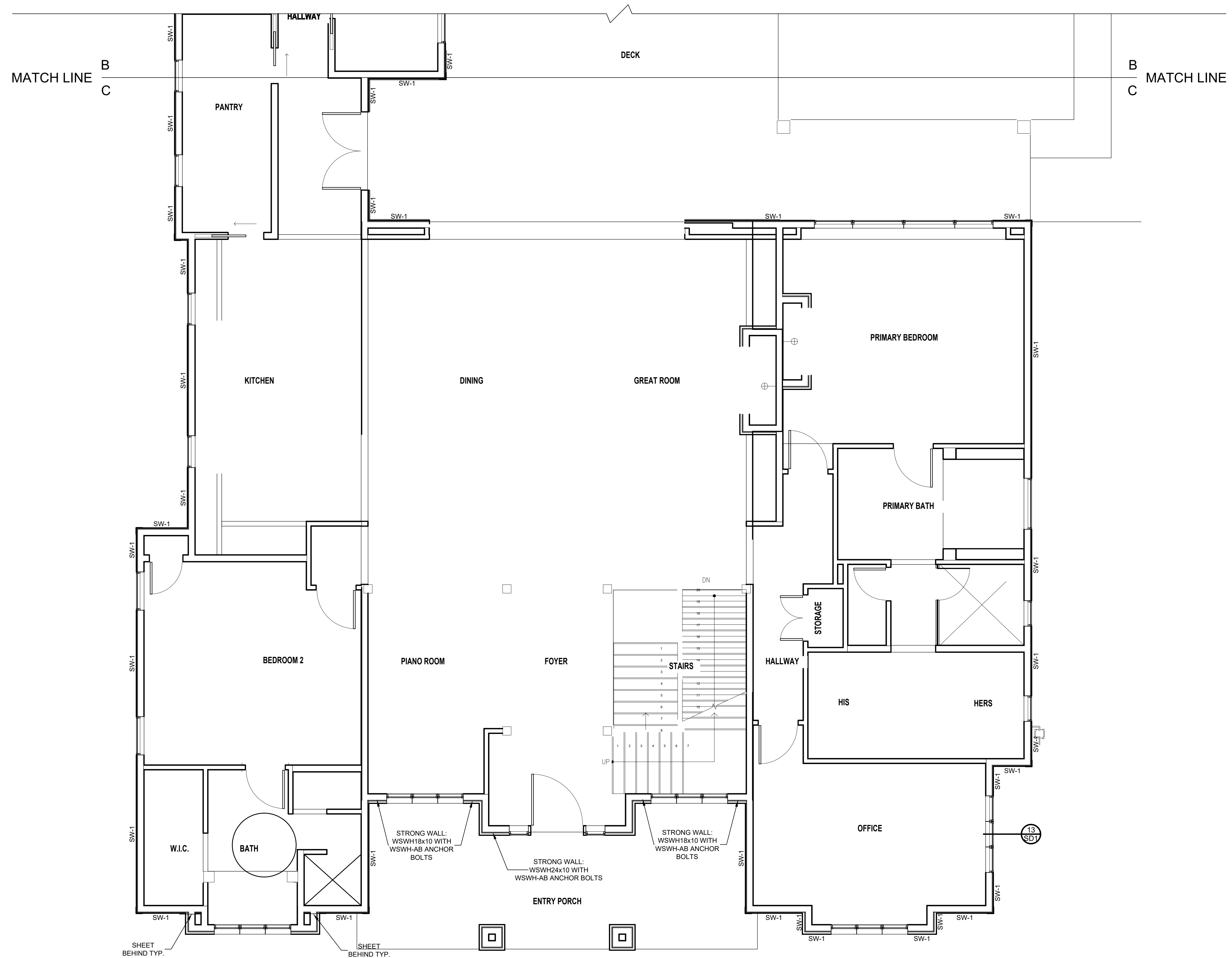


	Date	Author	Note
1	7/15/26	CH	Submitted for permitting

Age Group	Percentage
18-24	10%
25-34	15%
35-44	20%
45-54	25%
55-64	30%
65-74	35%
75-84	40%
85+	45%

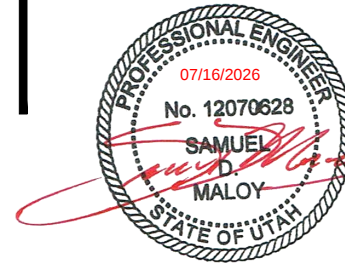
1893E. 12200 S.
DRAPER, UT

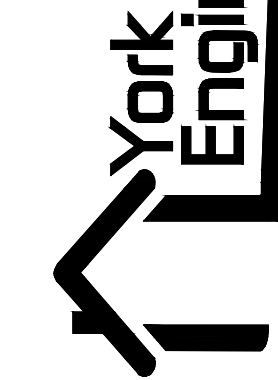
S2c



SCALE: 1/4"=1'-0"

Engineer's Stamp:



**York Engineering**

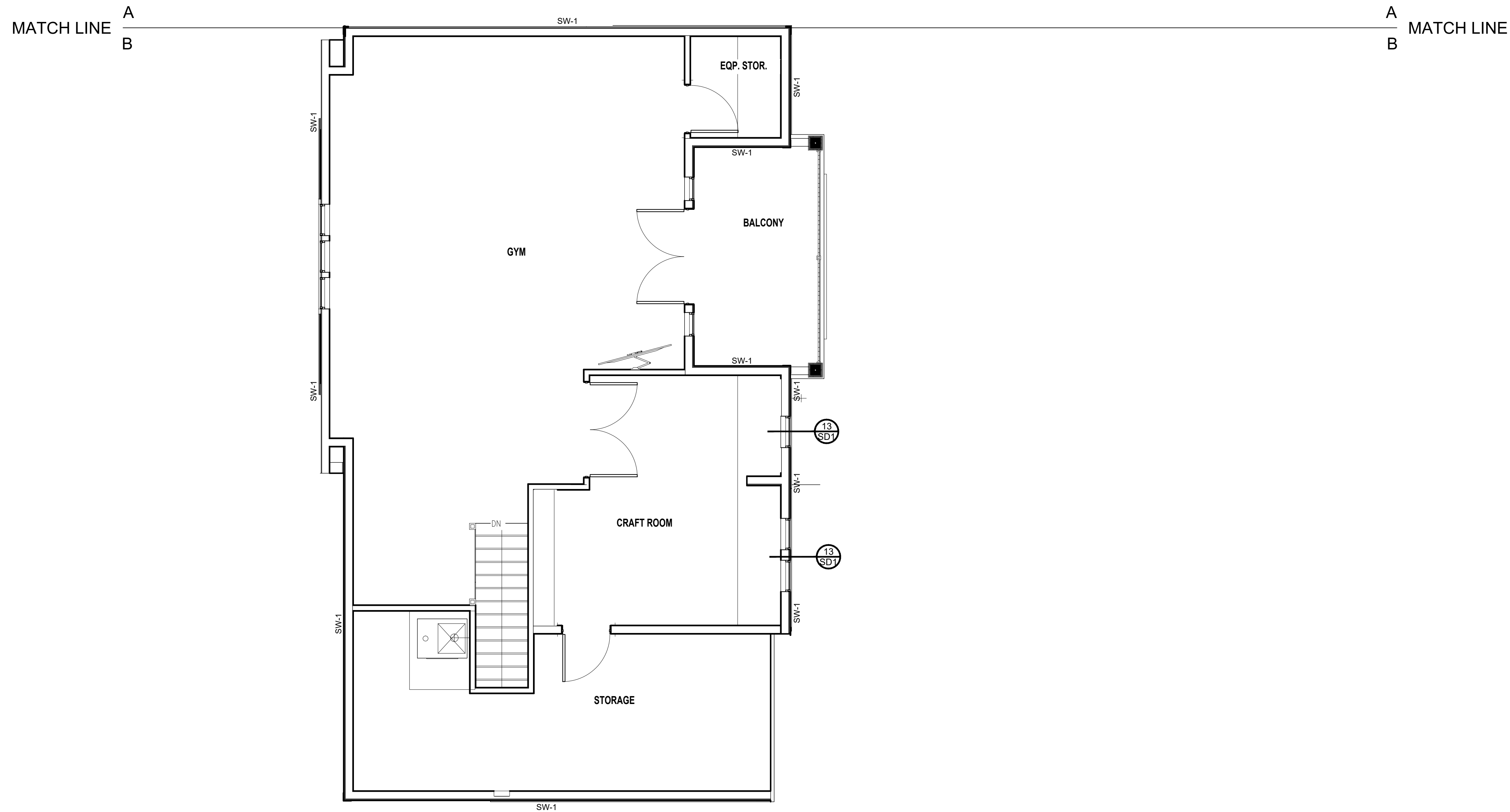
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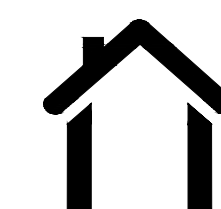
Date	Author	Note
7/15/26	CH	Submitted for permitting
1		

ENGINEER: CH
REVIEWER: SM

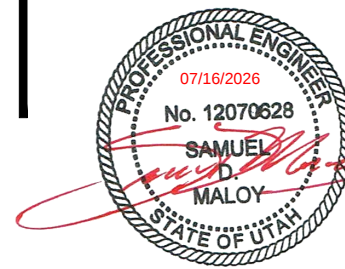
FELLER RESIDENCE
1893E, 12200 S.
DRAPER, UT

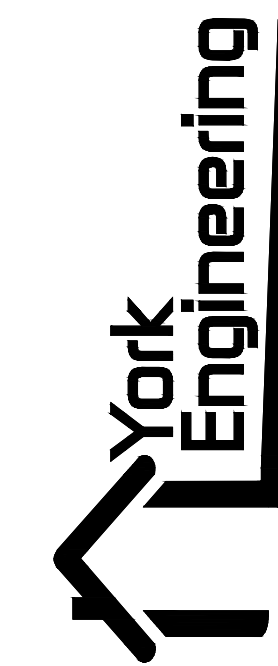
S3b



 **UPPER LEVEL SHEAR WALL PLAN**
SCALE: 1/4"=1'-0"

Engineer's Stamp:





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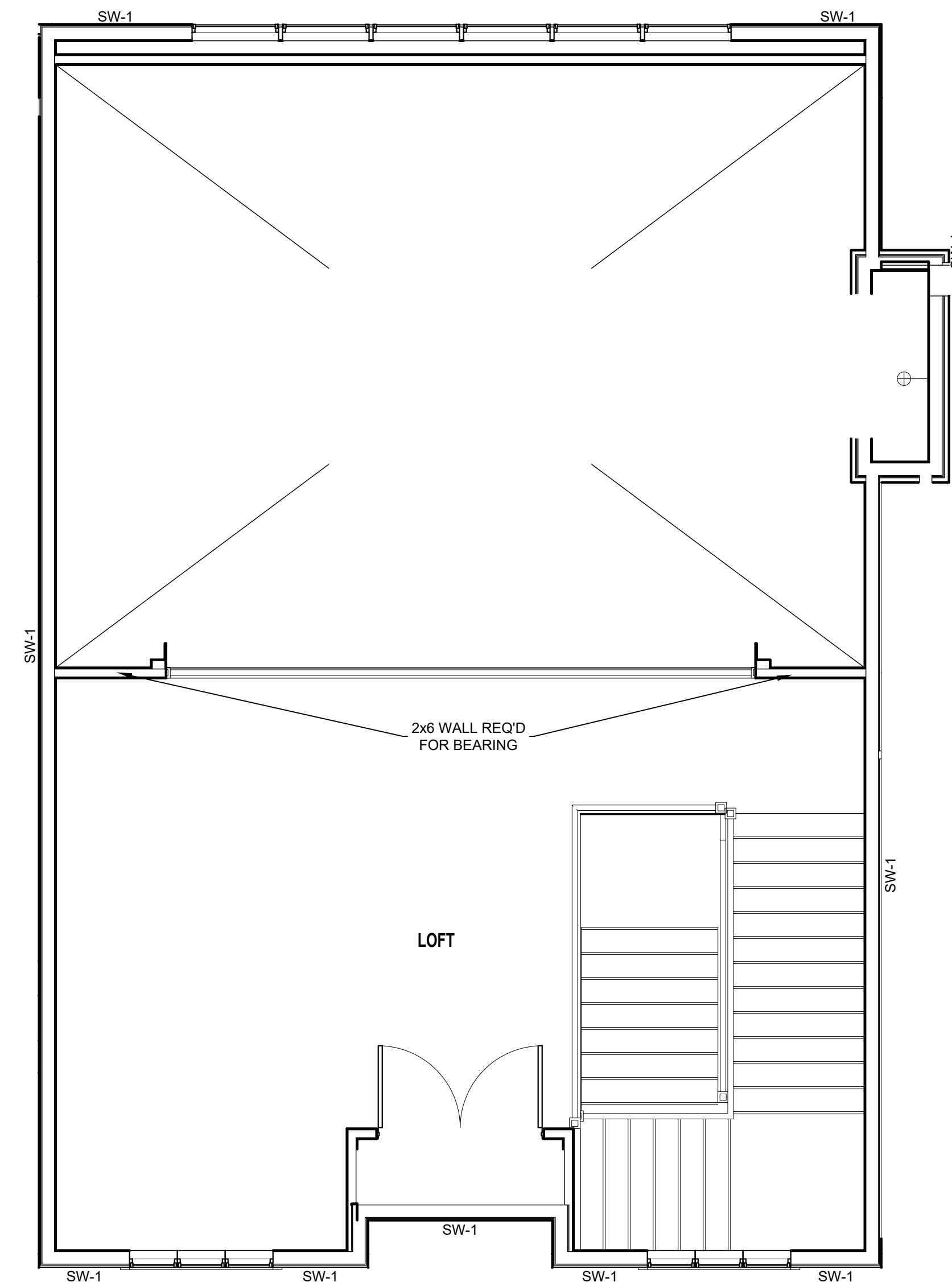
ENGINEER: CH
REVIEWER: SM

FELLER RESIDENCE
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S3c

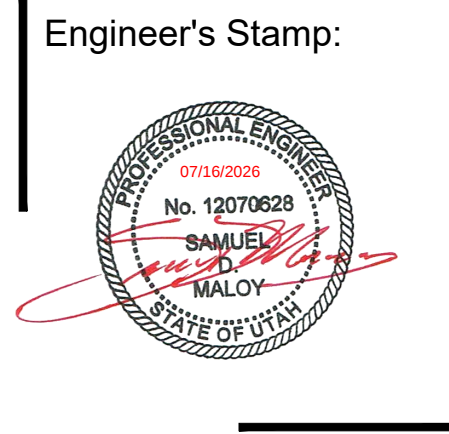
MATCH LINE
B
C

B
C
MATCH LINE





UPPER LEVEL SHEAR WALL PLAN
SCALE: 1/4"=1'-0"



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ENGINEER: CH
REVIEWER: SM

FELLER RESIDENCE
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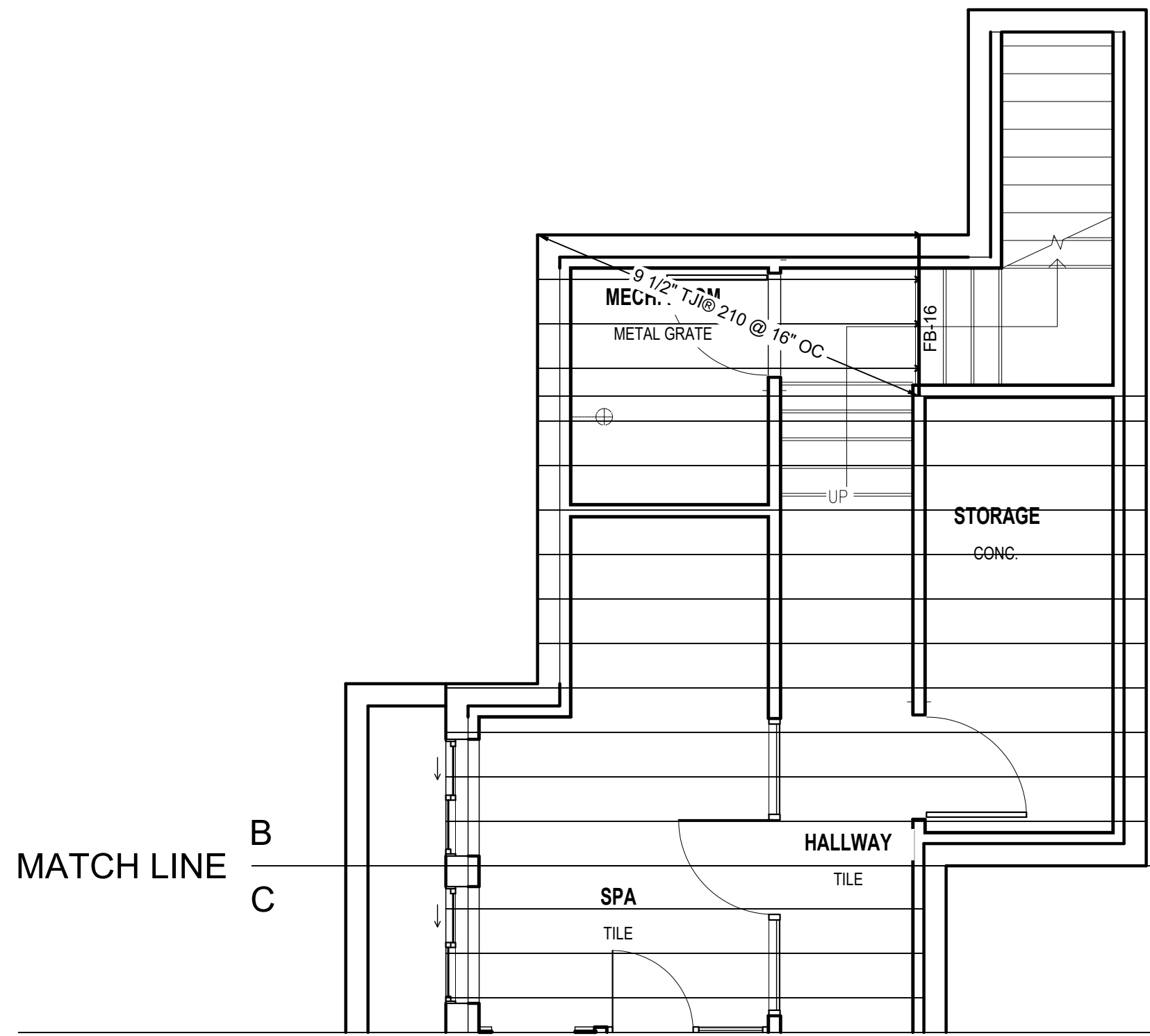
S4b

MATCH LINE
A
B

MATCH LINE
A
B

OPENINGS ON BEARING WALLS	
UNLESS OTHERWISE NOTED	
SPAN <5'-0"	(1) TRIMMER AND (1) KING STUD
SPAN 5'-1" - 18'-0"	(2) TRIMMERS AND (1) KING STUD
FOR WALLS TALLER THAN 10', USE DOUBLE KING STUDS	
UNLESS NOTED OTHERWISE, PROVIDE (2) 2X TO SUPPORT ALL BEAMS/GIRDERS	

MAIN LEVEL FLOOR BEAM SCHEDULE		
BEAM	SIZE/MATERIAL	ALTERNATE OPTIONS
FB-1:	(2) 1 3/4" x 18" LVL	
FB-2:	(1) 1 3/4" x 18" LVL	
FB-3:	(4) 1 3/4" x 18" LVL	
FB-4:	(2) 1 3/4" x 18" LVL	
FB-5:	(2) 1 3/4" x 18" LVL	
FB-6:	(4) 1 3/4" x 18" LVL	
FB-7:	(1) 1 3/4" x 18" LVL	
FB-8:	(1) 1 3/4" x 18" LVL	
FB-9:	(2) 1 3/4" x 18" LVL	
FB-10:	(2) 1 3/4" x 18" LVL	
FB-11:	(1) 1 3/4" x 18" LVL	
FB-12:	(1) 1 3/4" x 18" LVL	
FB-13:	(1) 1 3/4" x 18" LVL	
FB-14:	(2) 1 3/4" x 18" LVL	
FB-15:	(2) 1 3/4" x 14" LVL	
FB-16:	(2) 1 3/4" x 9 1/2" LVL	
FB-17:	(1) 1 3/4" x 18" LVL	
FB-18:	(2) 2x8 DF #2	
FB-19:	(2) 1 3/4" x 11 7/8" LVL	
NOTE: HEADERBEAM ATTACHMENT (2) PLY MEMBERS: ATTACH TOGETHER WITH (3) 16d AT 12" O.C. (2) 16d OK FOR 2x8 HEADERS). -USE (4) 16d WHEN HEADERBEAM HEIGHT IS GREATER THAN 11" (3) PLY MEMBERS: USE (3) 16d AT 12" O.C. EACH SIDE FOR -USE (4) 16d WHEN HEADERBEAM HEIGHT IS GREATER THAN 11" (4) PLY MEMBERS: ATTACH TOGETHER WITH (2) 1/2" THROUGH BOLTS AT 16" O.C. OR (2) SDS 1/4" X 6" SCREWS AT 16" O.C. EACH SIDE OF HEADERBEAM U.N.O., SEE PLAN.		



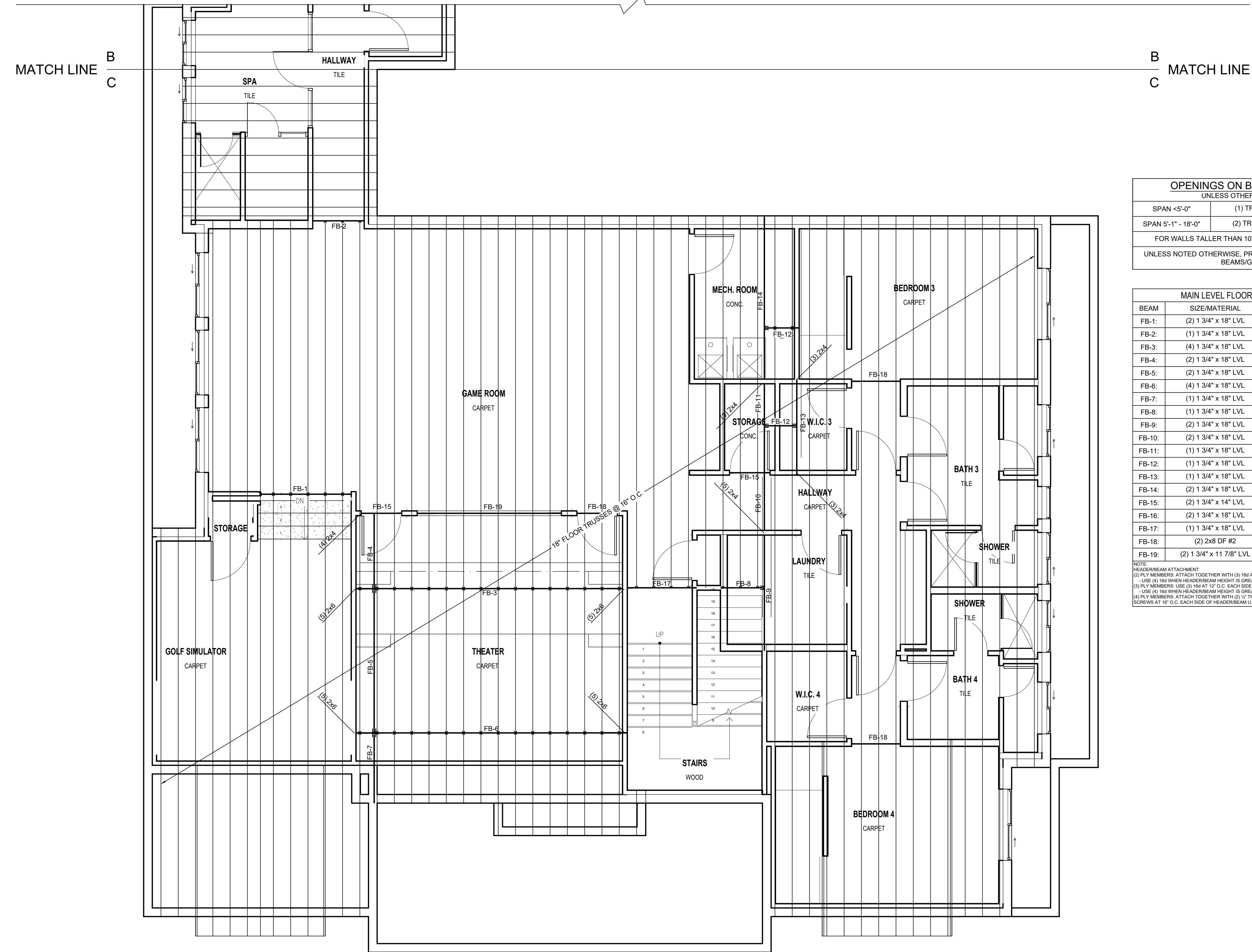
MAIN LEVEL FLOOR FRAMING PLAN
SCALE: 1/4"=1'-0"

Date	Author	Note	Submitted for permitting
1	7/15/26	CH	

ENGINEER: CH
REVIEWER: SM

FELLER RESIDENCE
1893E, 12200 S.
DRAPER, UT

S4c

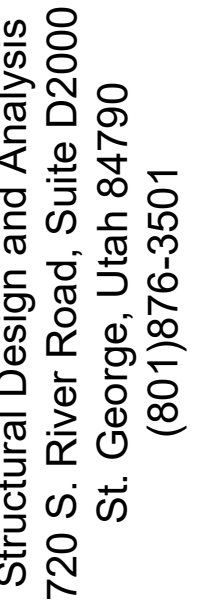


OPENINGS ON BEARING WALLS	
UNLESS OTHERWISE NOTED	
SPAN <5'-0"	(1) TRIMMER AND (1) KING STUD
SPAN 5'-1" - 18'-0"	(2) TRIMMERS AND (1) KING STUD
FOR WALLS TALLER THAN 10', USE DOUBLE KING STUDS	
UNLESS NOTED OTHERWISE, PROVIDE (2) 2X TO SUPPORT ALL BEAMS/GIRDERS	

MAIN LEVEL FLOOR BEAM SCHEDULE		
BEAM	SIZE/MATERIAL	ALTERNATE OPTIONS
FB-1:	(2) 1 3/4" x 18" LVL	
FB-2:	(1) 1 3/4" x 18" LVL	
FB-3:	(4) 1 3/4" x 18" LVL	
FB-4:	(2) 1 3/4" x 18" LVL	
FB-5:	(2) 1 3/4" x 18" LVL	
FB-6:	(4) 1 3/4" x 18" LVL	
FB-7:	(1) 1 3/4" x 18" LVL	
FB-8:	(1) 1 3/4" x 18" LVL	
FB-9:	(2) 1 3/4" x 18" LVL	
FB-10:	(2) 1 3/4" x 18" LVL	
FB-11:	(1) 1 3/4" x 18" LVL	
FB-12:	(1) 1 3/4" x 18" LVL	
FB-13:	(1) 1 3/4" x 18" LVL	
FB-14:	(2) 1 3/4" x 18" LVL	
FB-15:	(2) 1 3/4" x 14" LVL	
FB-16:	(2) 1 3/4" x 18" LVL	
FB-17:	(1) 1 3/4" x 18" LVL	
FB-18:	(2) 2x8 DF #2	
FB-19:	(2) 1 3/4" x 11 7/8" LVL	

NOTE:
HEADER/BEAM ATTACHMENT
(2) PLY MEMBERS: ATTACH TOGETHER WITH (3) 16d AT 12" O.C. (2) 16d OK FOR 2x8 HEADERS).
-USE (4) 16d WHEN HEADER/BEAM HEIGHT IS GREATER THAN 11"
(3) PLY MEMBERS: USE (3) 16d AT 12" O.C. EACH SIDE FOR
-USE (4) 16d WHEN HEADER/BEAM HEIGHT IS GREATER THAN 11"
(4) PLY MEMBERS: ATTACH TOGETHER WITH (2) 1/2" THROUGH BOLTS AT 16" O.C. OR (2) SDS 1/4" x 6"
SCREWS AT 16" O.C. EACH SIDE OF HEADER/BEAM U.N.O. - SEE PLAN.

MAIN LEVEL FLOOR FRAMING PLAN
SCALE: 1/4"=1'-0"



ROOF BEAM SCHEDULE		
BEAM	SIZE/MATERIAL	ALTERNATE OPTIONS
RB-1:	W14x53 Steel	
RB-2:	(1) 1 3/4" x 14" LVL	
RB-3:	(1) 1 3/4" x 14" LVL	
RB-4:	(1) 1 3/4" x 14" LVL	
RB-5:	3 1/2" x 21" GLB	
RB-6:	(4) 1 3/4" x 16" LVL	
RB-7:	(3) 1 3/4" x 11 1/2" LVL	
RB-8:	(4) 1 3/4" x 16" LVL	
RB-9:	(2) 2X8's DF #2	
RB-10:	NOT USED	
RB-11:	NOT USED	
RB-12:	(2) 2X10's DF #2	
RB-13:	(2) 2X6's DF #2	
RB-14:	(2) 2X8's DF #2	
RB-15:	(2) 2X10's DF #2	
RB-16:	(3) 2X10's DF #2	
RB-17:	(2) 1 3/4" x 9 1/2" LVL	
RB-18:	(2) 2X8's DF #2	
RB-19:	(2) 2X6's DF #2	
RB-20:	NOT USED	
RB-21:	(2) 2X6's DF #2	
RB-22:	(2) 1 3/4" x 11 7/8" LVL	
RB-23:	NOT USED	
RB-24:	5 1/8" x 21" GLB	
RB-25:	(2) 2X6's DF #2	
RB-26:	(2) 1 3/4" x 11 7/8" LVL	
RB-27:	(2) 1 3/4" x 9 1/2" LVL	
RB-28:	(2) 1 3/4" x 7 1/4" LVL	
RB-29:	NOT USED	
RB-30:	(2) 2X6's DF #2	
RB-31:	NOT USED	
RB-32:	(2) 1 3/4" x 14" LVL	
RB-33:	(2) 1 3/4" x 14" LVL	
RB-34:	(2) 1 3/4" x 14" LVL	
RB-35:	(2) 2X6's DF #2	
RB-36:	(2) 2X6's DF #2	
RB-37:	(2) 1 3/4" x 18" LVL	
RB-38:	(2) 1 3/4" x 7 1/4" LVL	
RB-39:	(3) 1 3/4" x 18" LVL	

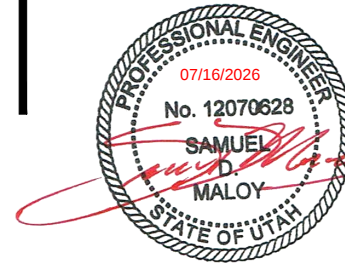
ENGINEER: CH
REVIEWER: SM

1893E. 12200 S.
DRAPER, UT

S5a



Engineer's Stamp:



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Structural Design and Analysis
720 S. River Road, Suite D2000
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(801) 876-3501

Date	Author	Note
7/15/26	CH	Submitted for permitting
1		

ENGINEER: CH
REVIEWER: SM

FELLER RESIDENCE
1893E, 12200 S.
DRAPER, UT

S5b

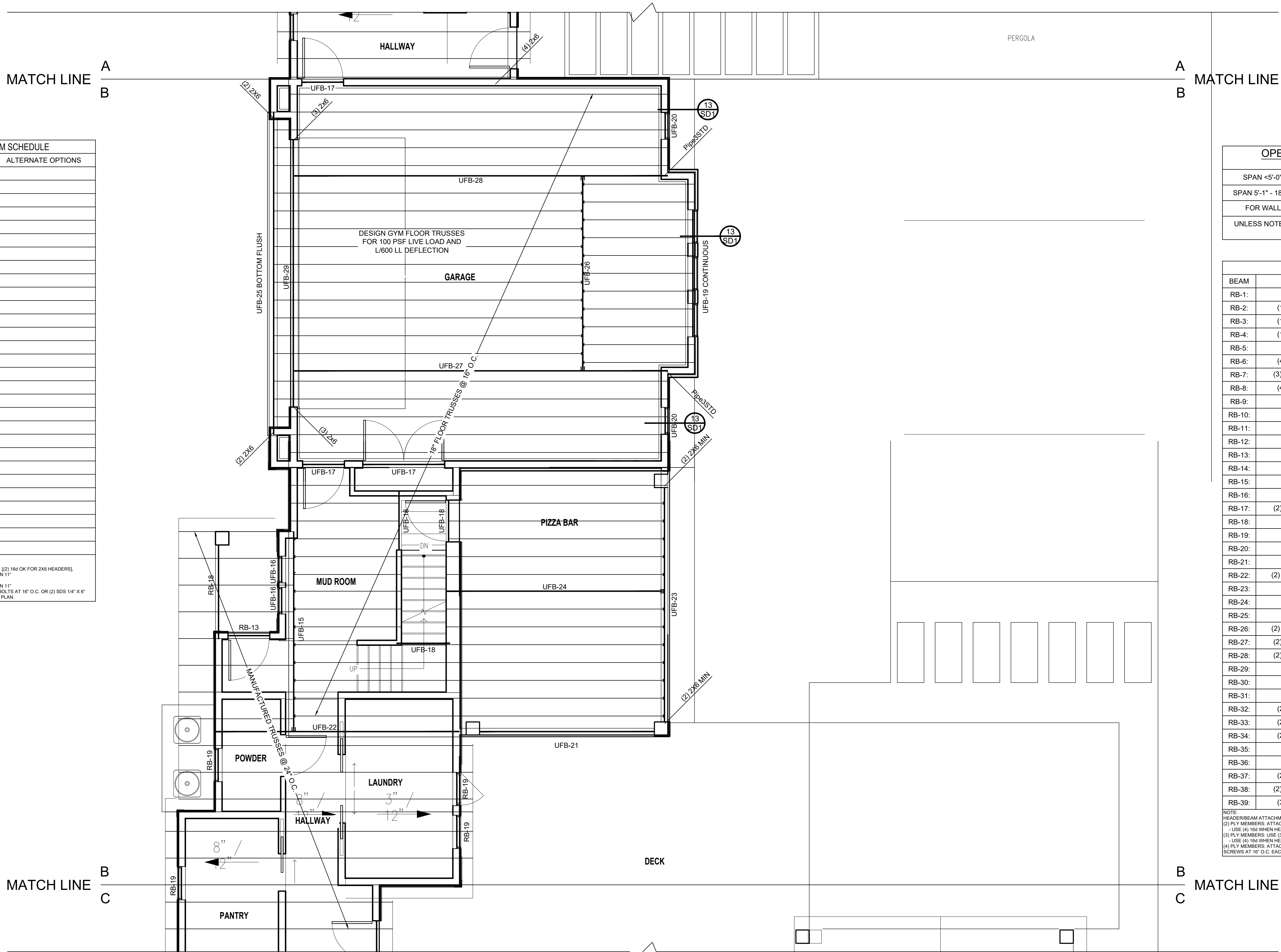
UPPER LEVEL FLOOR BEAM SCHEDULE		
BEAM	SIZE/MATERIAL	ALTERNATE OPTIONS
UFB-1:	(1) 1 3/4" x 18" LVL	
UFB-2:	(1) 1 3/4" x 18" LVL	
UFB-3:	(1) 1 3/4" x 18" LVL	
UFB-4:	(1) 1 3/4" x 18" LVL	
UFB-5:	(2) 1 3/4" x 7 1/4" LVL	
UFB-6:	(2) 2X8's DF #2	
UFB-7:	(3) 1 3/4" x 18" LVL	
UFB-8:	(2) 1 3/4" x 14" LVL	
UFB-9:	5 1/8" x 24" GLB	
UFB-10:	(2) 1 3/4" x 18" LVL	
UFB-11:	(2) 1 3/4" x 18" LVL	
UFB-12:	(2) 1 3/4" x 18" LVL	
UFB-13:	(3) 1 3/4" x 18" LVL	
UFB-14:	(3) 1 3/4" x 18" LVL	
UFB-15:	(2) 1 3/4" x 18" LVL	
UFB-16:	(2) 2X6's DF #2	
UFB-17:	(2) 2X6's DF #2	
UFB-18:	(1) 1 3/4" x 18" LVL	
UFB-19:	(2) 2X6's DF #2	
UFB-20:	(2) 2X6's DF #2	
UFB-21:	(1) 1 3/4" x 18" LVL	
UFB-22:	(2) 1 3/4" x 18" LVL	
UFB-23:	(3) 1 3/4" x 18" LVL	
UFB-24:	(2) 1 3/4" x 18" LVL	
UFB-25:	(3) 1 3/4" x 18" LVL	
UFB-26:	(2) 1 3/4" x 18" LVL	
UFB-27:	W16x57 Steel	
UFB-28:	W16x57 Steel	
UFB-29:	(3) 1 3/4" x 18" LVL	

NOTE:
HEADER/BEAM ATTACHMENT
(2) PLY MEMBERS ATTACH TOGETHER WITH (3) 16d AT 12" O.C. (2) 16d OK FOR 2X6 HEADERS).
USE (4) 16d WHEN HEADER/BEAM HEIGHT IS GREATER THAN 11".
(3) PLY MEMBERS USE (3) 16d AT 12" O.C. EACH SIDE FOR
USE (4) 16d WHEN HEADER/BEAM HEIGHT IS GREATER THAN 11".
(4) PLY MEMBERS ATTACH TOGETHER WITH (2) 1/2" THROUGH BOLTS AT 16" O.C. OR (2) SDS 1/4" X 6" SCREWS AT 16" O.C. EACH SIDE OF HEADER/BEAM U.N.O., SEE PLAN.

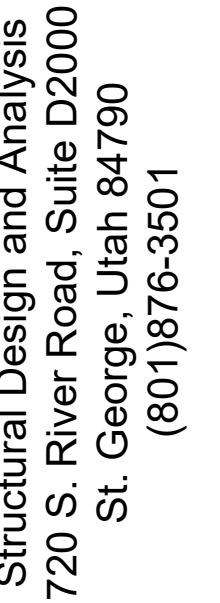
OPENINGS ON BEARING WALLS	
UNLESS OTHERWISE NOTED	
SPAN <5'-0"	(1) TRIMMER AND (1) KING STUD
SPAN 5'-1" - 18'-0"	(2) TRIMMERS AND (1) KING STUD
FOR WALLS TALLER THAN 10', USE DOUBLE KING STUDS	
UNLESS NOTED OTHERWISE, PROVIDE (2) 2X TO SUPPORT ALL BEAMS/GIRDERS	

ROOF BEAM SCHEDULE		
BEAM	SIZE/MATERIAL	ALTERNATE OPTIONS
RB-1:	W14x53 Steel	
RB-2:	(1) 1 3/4" x 14" LVL	
RB-3:	(1) 1 3/4" x 14" LVL	
RB-4:	(1) 1 3/4" x 14" LVL	
RB-5:	3 1/2" x 21" GLB	
RB-6:	(4) 1 3/4" x 16" LVL	
RB-7:	(3) 1 3/4" x 11 7/8" LVL	
RB-8:	(4) 1 3/4" x 16" LVL	
RB-9:	(2) 2X8's DF #2	
RB-10:	NOT USED	
RB-11:	NOT USED	
RB-12:	(2) 2X10's DF #2	
RB-13:	(2) 2X6's DF #2	
RB-14:	(2) 2X8's DF #2	
RB-15:	(2) 2X10's DF #2	
RB-16:	(3) 2X10's DF #2	
RB-17:	(2) 1 3/4" x 9 1/2" LVL	
RB-18:	(2) 2X8's DF #2	
RB-19:	(2) 2X6's DF #2	
RB-20:	NOT USED	
RB-21:	(2) 2X8's DF #2	
RB-22:	(2) 1 3/4" x 11 7/8" LVL	
RB-23:	NOT USED	
RB-24:	5 1/8" x 21" GLB	
RB-25:	(2) 2X6's DF #2	
RB-26:	(2) 1 3/4" x 11 7/8" LVL	
RB-27:	(2) 1 3/4" x 9 1/2" LVL	
RB-28:	(2) 1 3/4" x 7 1/4" LVL	
RB-29:	NOT USED	
RB-30:	(2) 2X8's DF #2	
RB-31:	NOT USED	
RB-32:	(2) 1 3/4" x 14" LVL	
RB-33:	(2) 1 3/4" x 14" LVL	
RB-34:	(2) 1 3/4" x 14" LVL	
RB-35:	(2) 2X6's DF #2	
RB-36:	(2) 2X8's DF #2	
RB-37:	(2) 1 3/4" x 18" LVL	
RB-38:	(2) 1 3/4" x 7 1/4" LVL	
RB-39:	(3) 1 3/4" x 18" LVL	

NOTE:
HEADER/BEAM ATTACHMENT
(2) PLY MEMBERS ATTACH TOGETHER WITH (3) 16d AT 12" O.C. (2) 16d OK FOR 2X6 HEADERS).
USE (4) 16d WHEN HEADER/BEAM HEIGHT IS GREATER THAN 11".
(3) PLY MEMBERS USE (3) 16d AT 12" O.C. EACH SIDE FOR
USE (4) 16d WHEN HEADER/BEAM HEIGHT IS GREATER THAN 11".
(4) PLY MEMBERS ATTACH TOGETHER WITH (2) 1/2" THROUGH BOLTS AT 16" O.C. OR (2) SDS 1/4" X 6" SCREWS AT 16" O.C. EACH SIDE OF HEADER/BEAM U.N.O., SEE PLAN.



UPPER LEVEL FLOOR FRAMING PLAN
SCALE: 1/4"=1'-0"



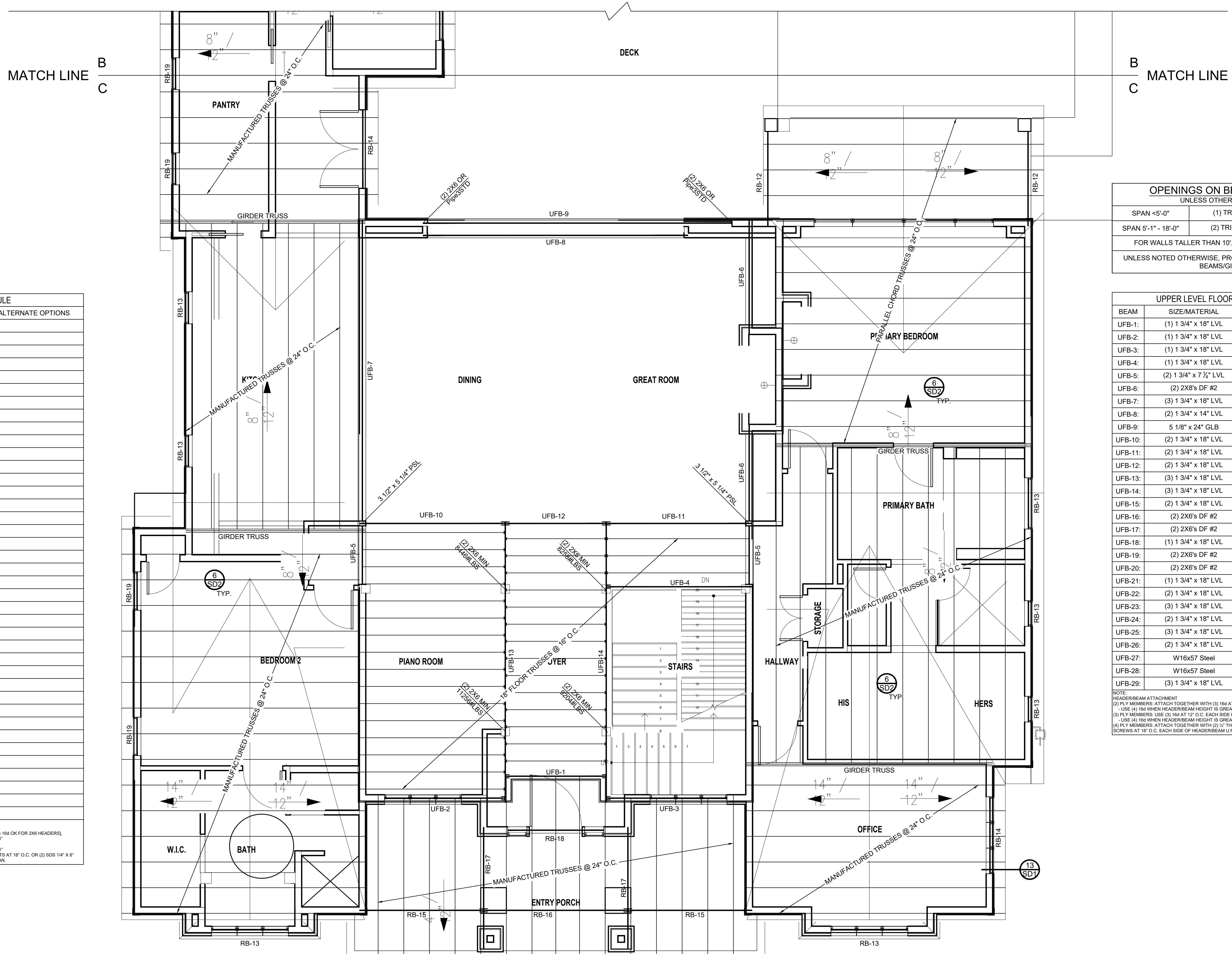
UPPER LEVEL FLOOR BEAM SCHEDULE		
BEAM	SIZE/MATERIAL	ALTERNATE OPTIONS
UFB-1:	(1) 1 3/4" x 18" LVL	
UFB-2:	(1) 1 3/4" x 18" LVL	
UFB-3:	(1) 1 3/4" x 18" LVL	
UFB-4:	(1) 1 3/4" x 18" LVL	
UFB-5:	(2) 1 3/4" x 7 1/2" LVL	
UFB-6:	(2) 2X8's DF #2	
UFB-7:	(3) 1 3/4" x 18" LVL	
UFB-8:	(2) 1 3/4" x 14" LVL	
UFB-9:	5 1/8" x 24" GLB	
UFB-10:	(2) 1 3/4" x 18" LVL	
UFB-11:	(2) 1 3/4" x 18" LVL	
UFB-12:	(2) 1 3/4" x 18" LVL	
UFB-13:	(3) 1 3/4" x 18" LVL	
UFB-14:	(3) 1 3/4" x 18" LVL	
UFB-15:	(2) 1 3/4" x 18" LVL	
UFB-16:	(2) 2X6's DF #2	
UFB-17:	(2) 2X6's DF #2	
UFB-18:	(1) 1 3/4" x 18" LVL	
UFB-19:	(2) 2X6's DF #2	
UFB-20:	(2) 2X6's DF #2	
UFB-21:	(1) 1 3/4" x 18" LVL	
UFB-22:	(2) 1 3/4" x 18" LVL	
UFB-23:	(3) 1 3/4" x 18" LVL	
UFB-24:	(2) 1 3/4" x 18" LVL	
UFB-25:	(3) 1 3/4" x 18" LVL	
UFB-26:	(2) 1 3/4" x 18" LVL	
UFB-27:	W16x57 Steel	
UFB-28:	W16x57 Steel	
UFB-29:	(3) 1 3/4" x 18" LVL	

NOTE:
HEADER/BEAM ATTACHMENT
(2) PLY MEMBERS: ATTACH TOGETHER WITH (3) 16d AT 12" O.C. [(2) 16d OK FOR 2X6 HEADERS].
- USE (4) 16d WHEN HEADER/BEAM HEIGHT IS GREATER THAN 11"
(3) PLY MEMBERS: USE (3) 16d AT 12" O.C. EACH SIDE FOR
- USE (4) 16d WHEN HEADER/BEAM HEIGHT IS GREATER THAN 11"
(4) PLY MEMBERS: ATTACH TOGETHER WITH (2) ½" THROUGH BOLTS AT 16" O.C. OR (2) SDS 1¼" X 6"
SCREWS AT 16" O.C. EACH SIDE OF HEADER/BEAM U.N.O. SEE PLAN.

ENGINEER: CH
REVIEWER: SM

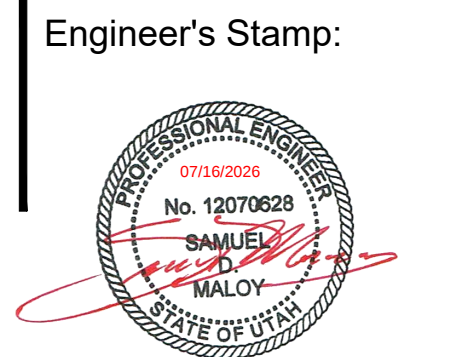
1893E. 12200 S.
DRAPER, UT

S5c



UPPER LEVEL FLOOR FRAMING PLAN

SCALE: 1/4"=1'-0"



York
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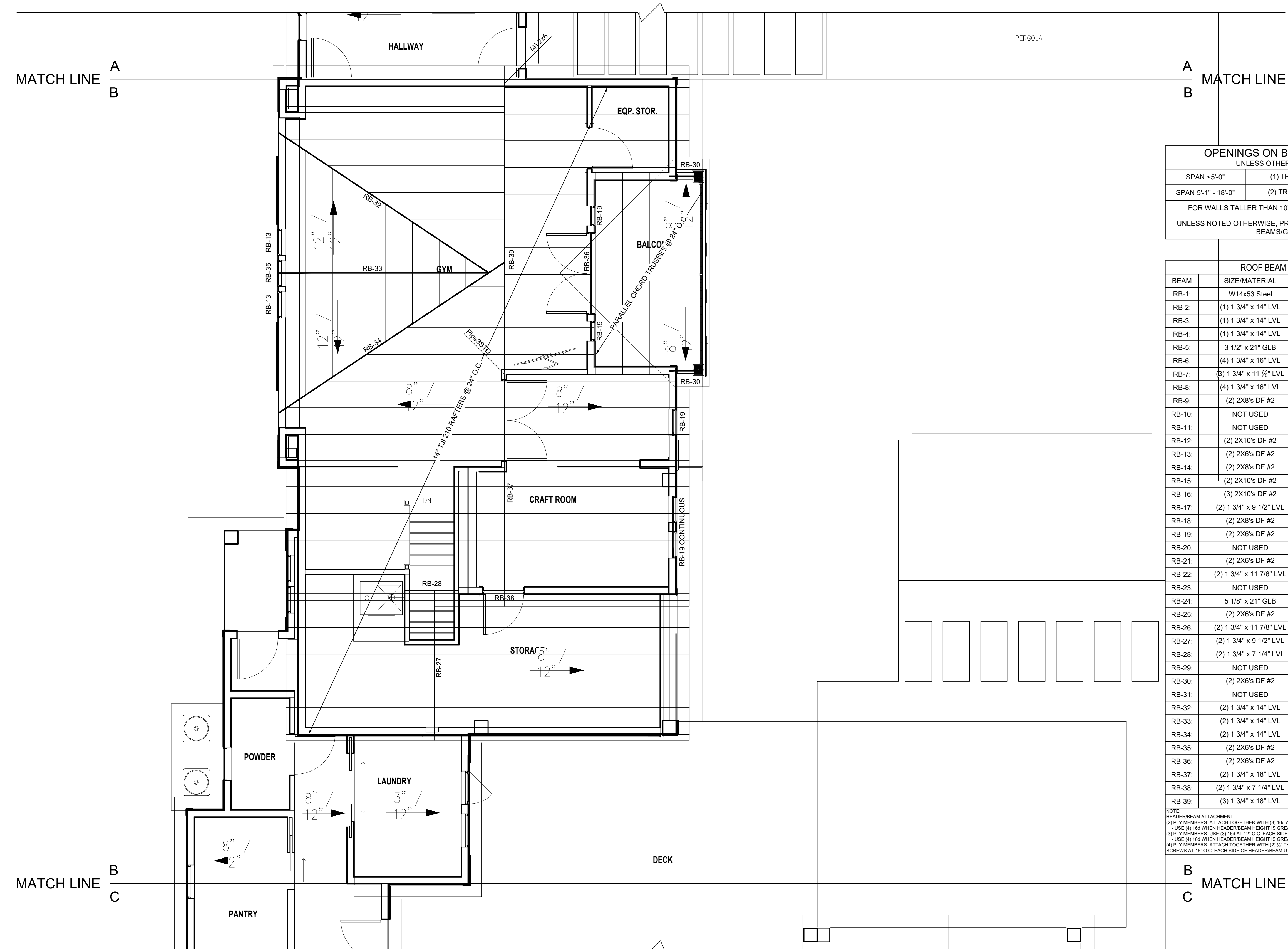
Date	Author	Note	Submitted for permitting
1	CH		

ENGINEER: CH
REVIEWER: SM

FELLER RESIDENCE

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S6b



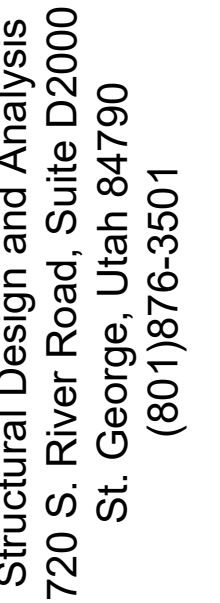
OPENINGS ON BEARING WALLS	
UNLESS OTHERWISE NOTED	
SPAN <5'-0"	(1) TRIMMER AND (1) KING STUD
SPAN 5'-1" - 18'-0"	(2) TRIMMERS AND (1) KING STUD
FOR WALLS TALLER THAN 10', USE DOUBLE KING STUDS	
UNLESS NOTED OTHERWISE, PROVIDE (2) 2X TO SUPPORT ALL BEAMS/GIRDERS	

ROOF BEAM SCHEDULE		
BEAM	SIZE/MATERIAL	ALTERNATE OPTIONS
RB-1:	W14x53 Steel	
RB-2:	(1) 1 3/4" x 14" LVL	
RB-3:	(1) 1 3/4" x 14" LVL	
RB-4:	(1) 1 3/4" x 14" LVL	
RB-5:	3 1/2" x 21" GLB	
RB-6:	(4) 1 3/4" x 16" LVL	
RB-7:	(3) 1 3/4" x 11 7/8" LVL	
RB-8:	(4) 1 3/4" x 16" LVL	
RB-9:	(2) 2X8's DF #2	
RB-10:	NOT USED	
RB-11:	NOT USED	
RB-12:	(2) 2X10's DF #2	
RB-13:	(2) 2X6's DF #2	
RB-14:	(2) 2X8's DF #2	
RB-15:	(2) 2X10's DF #2	
RB-16:	(3) 2X10's DF #2	
RB-17:	(2) 1 3/4" x 9 1/2" LVL	
RB-18:	(2) 2X8's DF #2	
RB-19:	(2) 2X6's DF #2	
RB-20:	NOT USED	
RB-21:	(2) 2X6's DF #2	
RB-22:	(2) 1 3/4" x 11 7/8" LVL	
RB-23:	NOT USED	
RB-24:	5 1/8" x 21" GLB	
RB-25:	(2) 2X6's DF #2	
RB-26:	(2) 1 3/4" x 11 7/8" LVL	
RB-27:	(2) 1 3/4" x 9 1/2" LVL	
RB-28:	(2) 1 3/4" x 7 1/4" LVL	
RB-29:	NOT USED	
RB-30:	(2) 2X6's DF #2	
RB-31:	NOT USED	
RB-32:	(2) 1 3/4" x 14" LVL	
RB-33:	(2) 1 3/4" x 14" LVL	
RB-34:	(2) 1 3/4" x 14" LVL	
RB-35:	(2) 2X6's DF #2	
RB-36:	(2) 2X6's DF #2	
RB-37:	(2) 1 3/4" x 18" LVL	
RB-38:	(2) 1 3/4" x 7 1/4" LVL	
RB-39:	(3) 1 3/4" x 18" LVL	

NOTE:
HEADERBEAM ATTACHMENT
(2) PLY MEMBERS ATTACH TOGETHER WITH (3) 16d AT 12" O.C. (2) 16d OK FOR 2X6 HEADERS).
-USE (4) 16d WHEN HEADERBEAM HEIGHT IS GREATER THAN 11"
(3) PLY MEMBERS USE (3) 16d AT 12" O.C. EACH SIDE FOR
-USE (4) 16d WHEN HEADERBEAM HEIGHT IS GREATER THAN 11"
(4) PLY MEMBERS ATTACH TOGETHER WITH (2) 1/2" THROUGH BOLTS AT 16" O.C. OR (2) SDS 1/4" x 6"
SCREWS AT 16" O.C. EACH SIDE OF HEADERBEAM U.N.O. SEE PLAN.

ROOF FRAMING PLAN

SCALE: 1/4"=1'-0"



ROOF BEAM SCHEDULE		
BEAM	SIZE/MATERIAL	ALTERNATE OPTIONS
RB-1:	W14x53 Steel	
RB-2:	(1) 1 3/4" x 14" LVL	
RB-3:	(1) 1 3/4" x 14" LVL	
RB-4:	(1) 1 3/4" x 14" LVL	
RB-5:	3 1/2" x 21" GLB	
RB-6:	(4) 1 3/4" x 16" LVL	
RB-7:	(3) 1 3/4" x 11 1/2" LVL	
RB-8:	(4) 1 3/4" x 16" LVL	
RB-9:	(2) 2X8's DF #2	
RB-10:	NOT USED	
RB-11:	NOT USED	
RB-12:	(2) 2X10's DF #2	
RB-13:	(2) 2X6's DF #2	
RB-14:	(2) 2X8's DF #2	
RB-15:	(2) 2X10's DF #2	
RB-16:	(3) 2X10's DF #2	
RB-17:	(2) 1 3/4" x 9 1/2" LVL	
RB-18:	(2) 2X8's DF #2	
RB-19:	(2) 2X6's DF #2	
RB-20:	NOT USED	
RB-21:	(2) 2X6's DF #2	
RB-22:	(2) 1 3/4" x 11 7/8" LVL	
RB-23:	NOT USED	
RB-24:	5 1/8" x 21" GLB	
RB-25:	(2) 2X6's DF #2	
RB-26:	(2) 1 3/4" x 11 7/8" LVL	
RB-27:	(2) 1 3/4" x 9 1/2" LVL	
RB-28:	(2) 1 3/4" x 7 1/4" LVL	
RB-29:	NOT USED	
RB-30:	(2) 2X6's DF #2	
RB-31:	NOT USED	
RB-32:	(2) 1 3/4" x 14" LVL	
RB-33:	(2) 1 3/4" x 14" LVL	
RB-34:	(2) 1 3/4" x 14" LVL	
RB-35:	(2) 2X6's DF #2	
RB-36:	(2) 2X6's DF #2	
RB-37:	(2) 1 3/4" x 18" LVL	
RB-38:	(2) 1 3/4" x 7 1/4" LVL	
RB-39:	(3) 1 3/4" x 18" LVL	

	Date	Author	Note
1	7/15/26	CH	Submitted for permitting

ENGINEER: CH
REVIEWER: SM

FELLER RESIDENCE

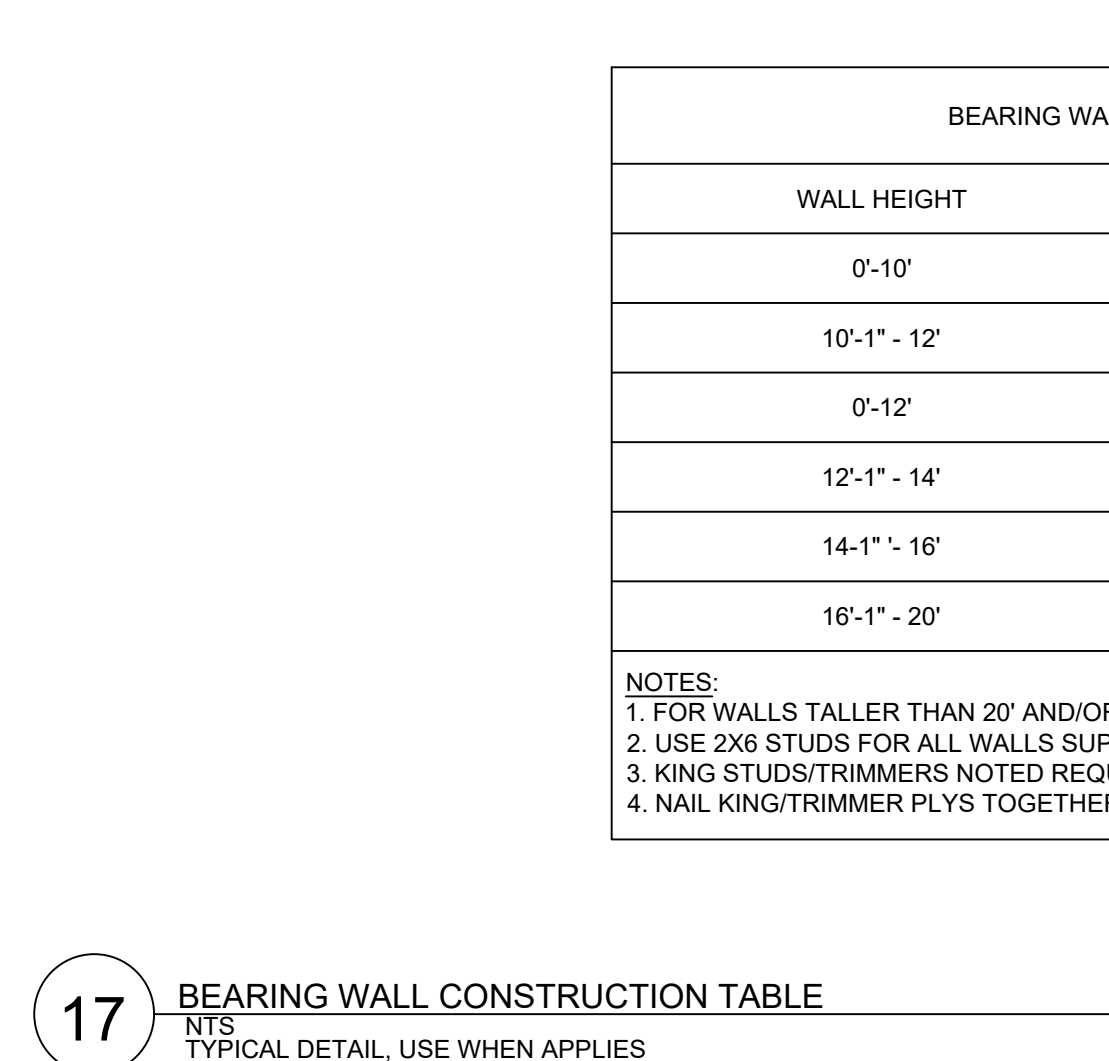
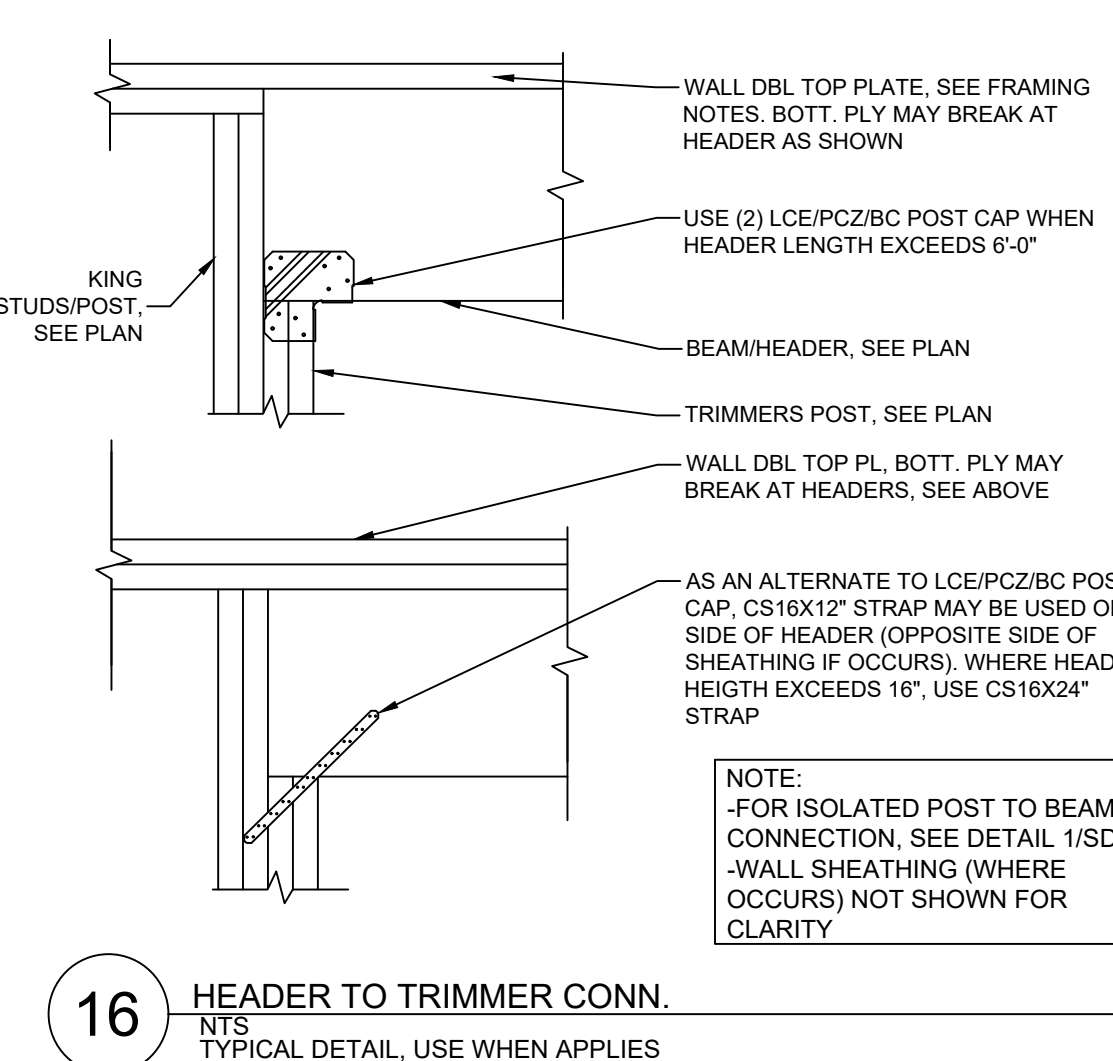
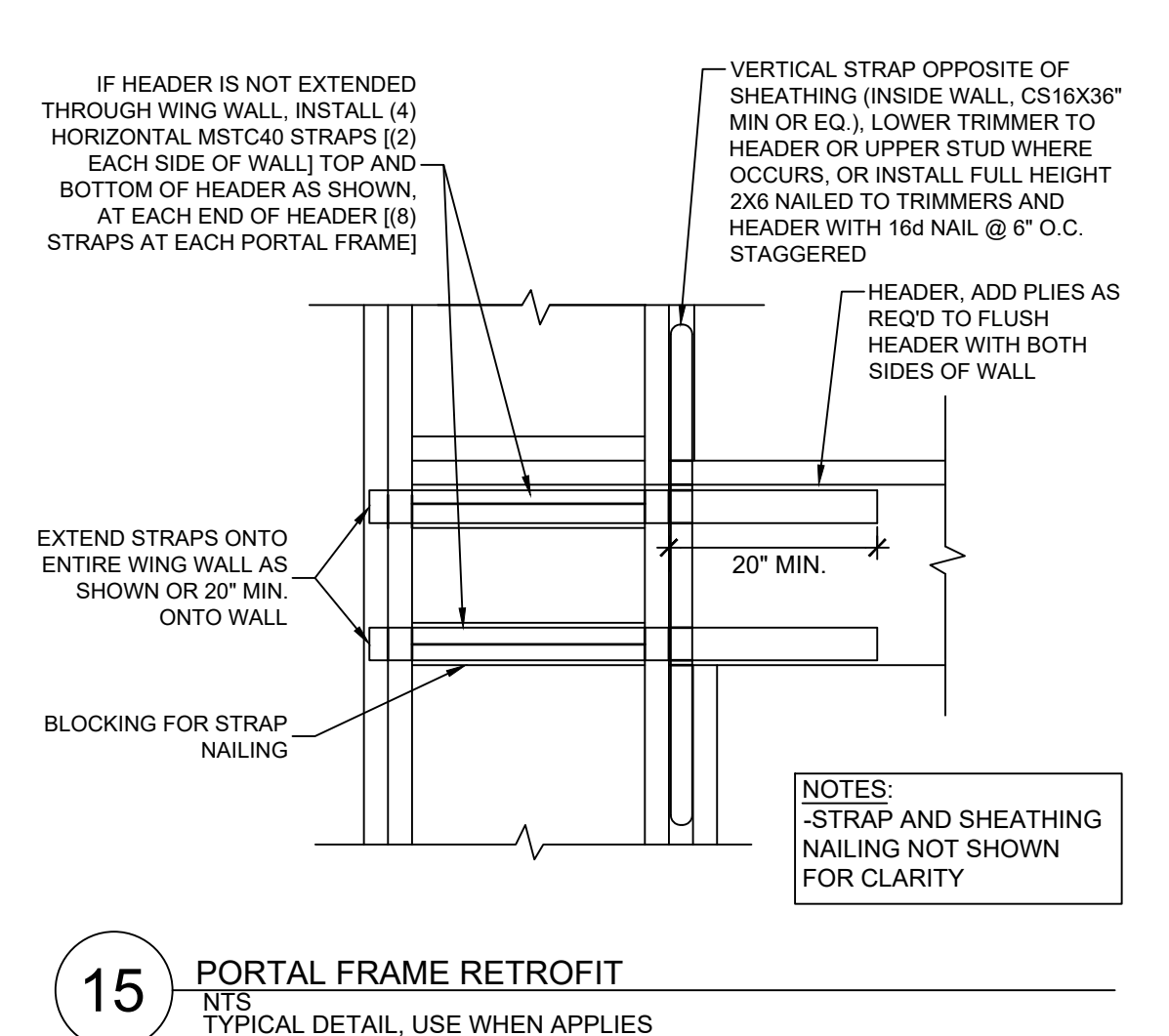
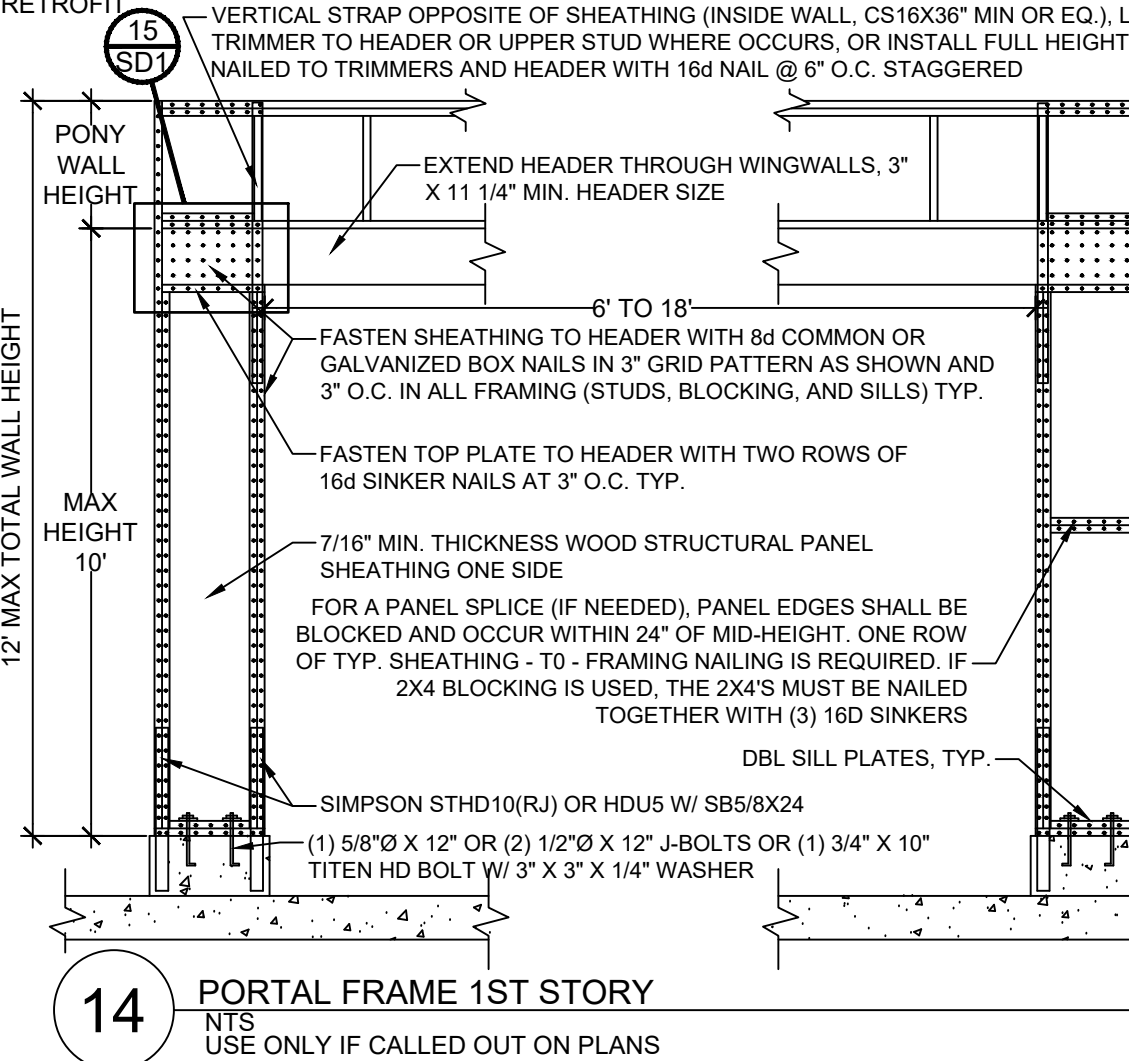
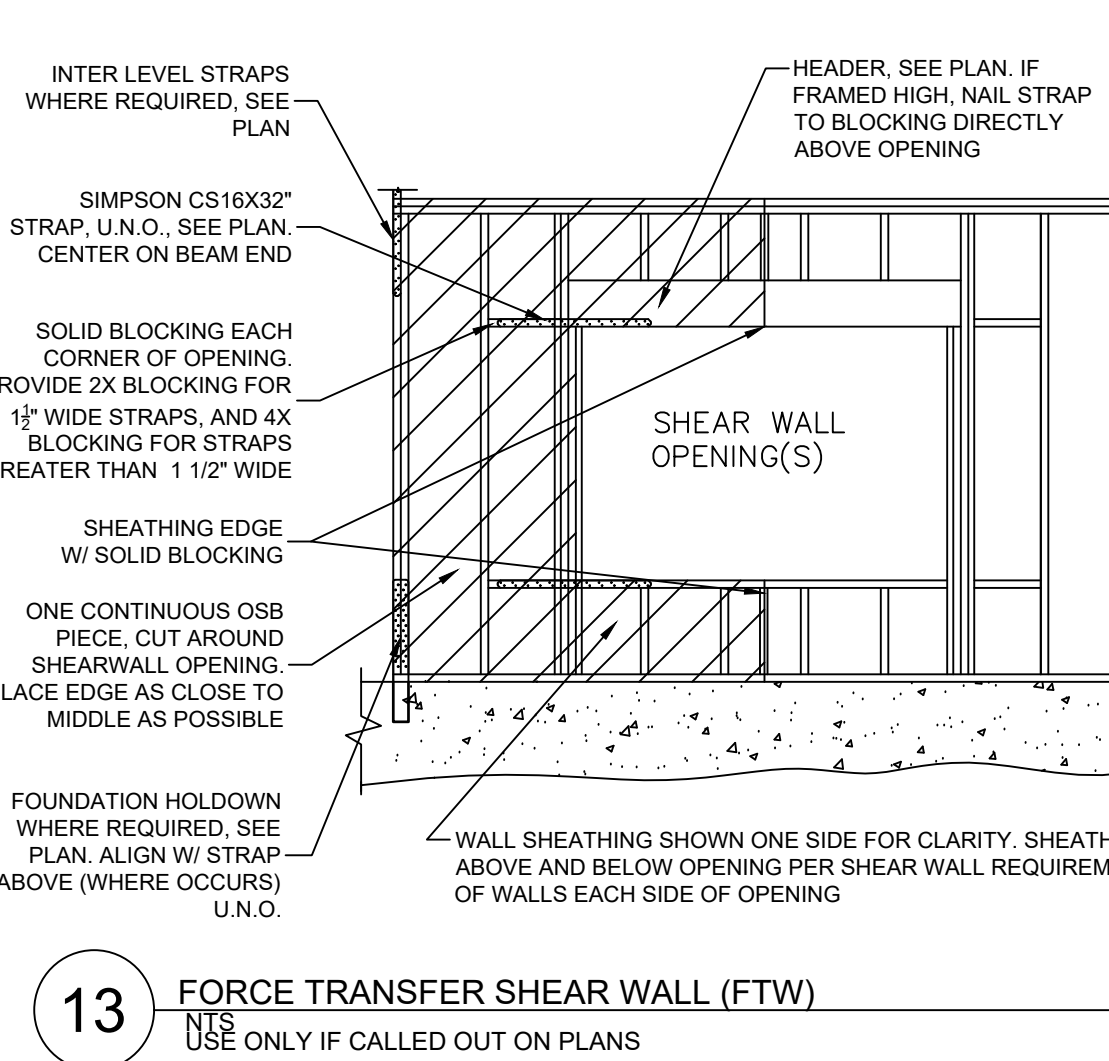
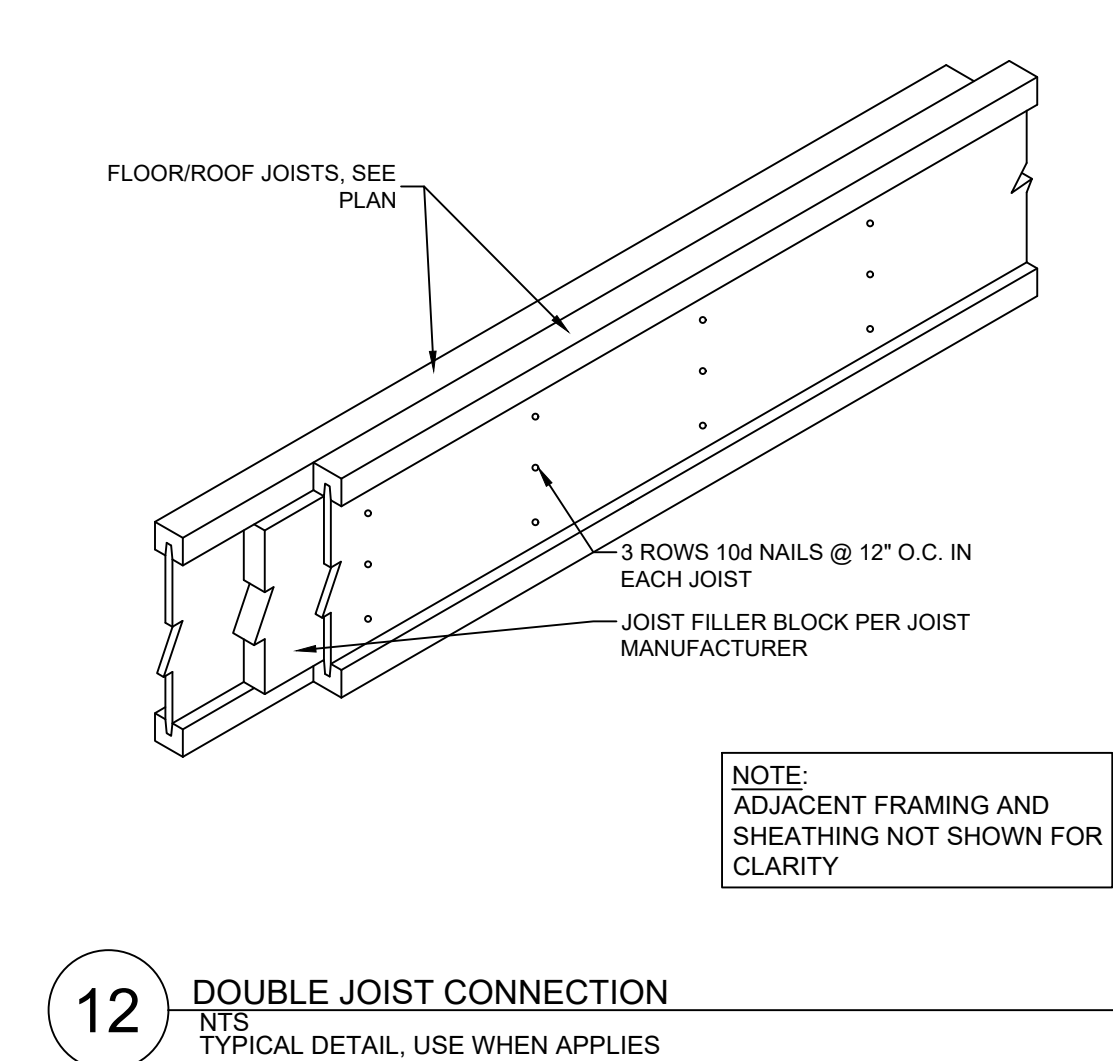
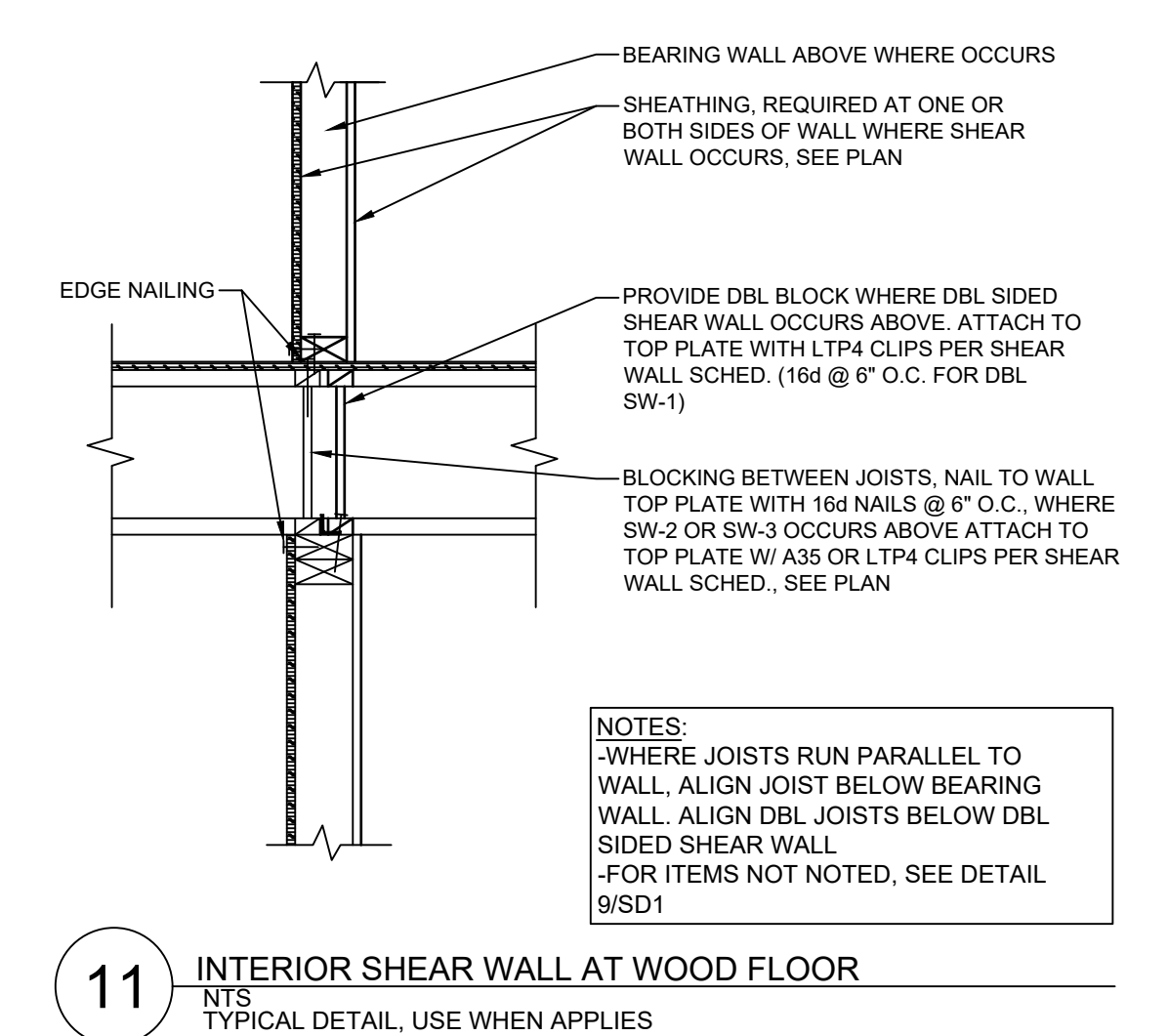
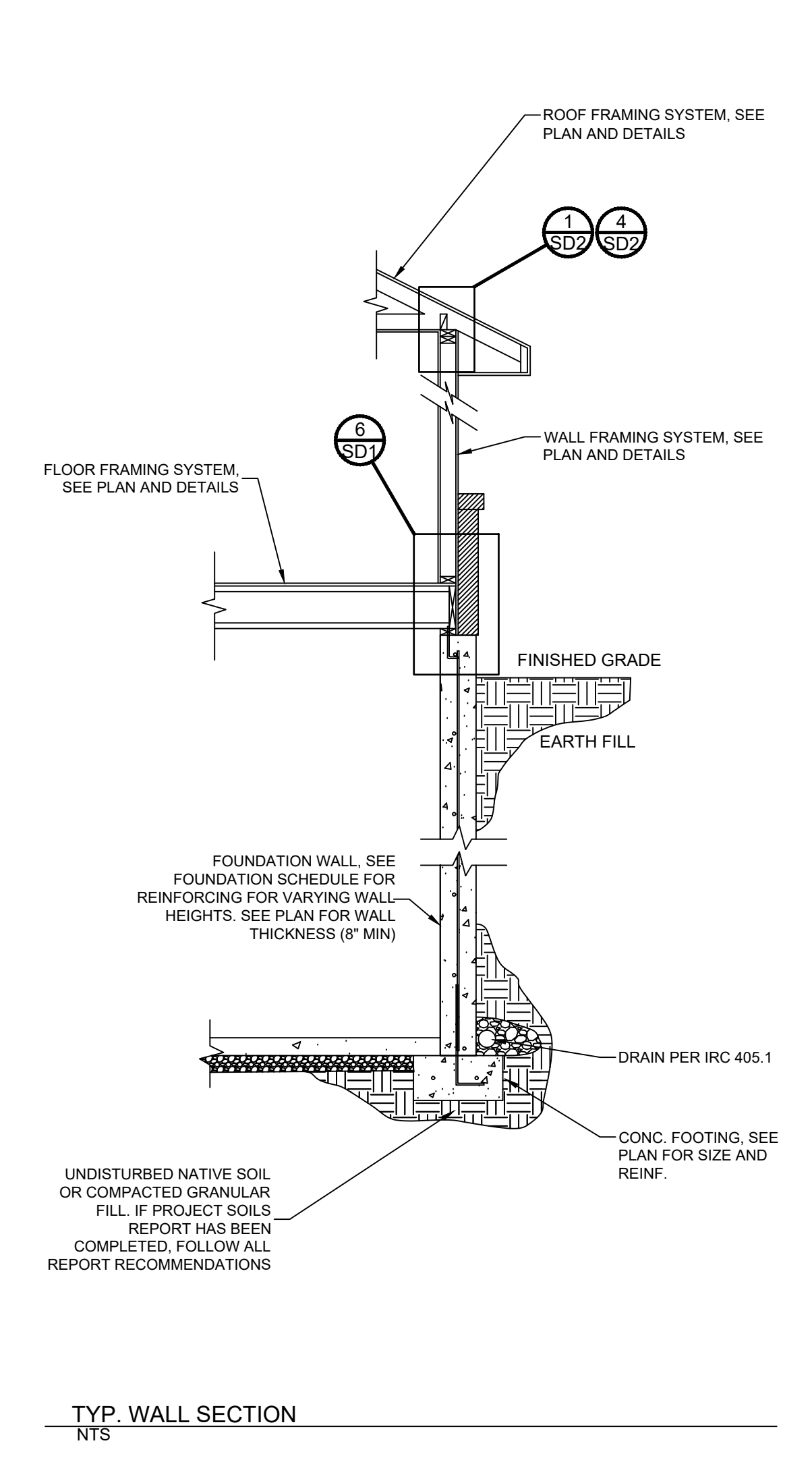
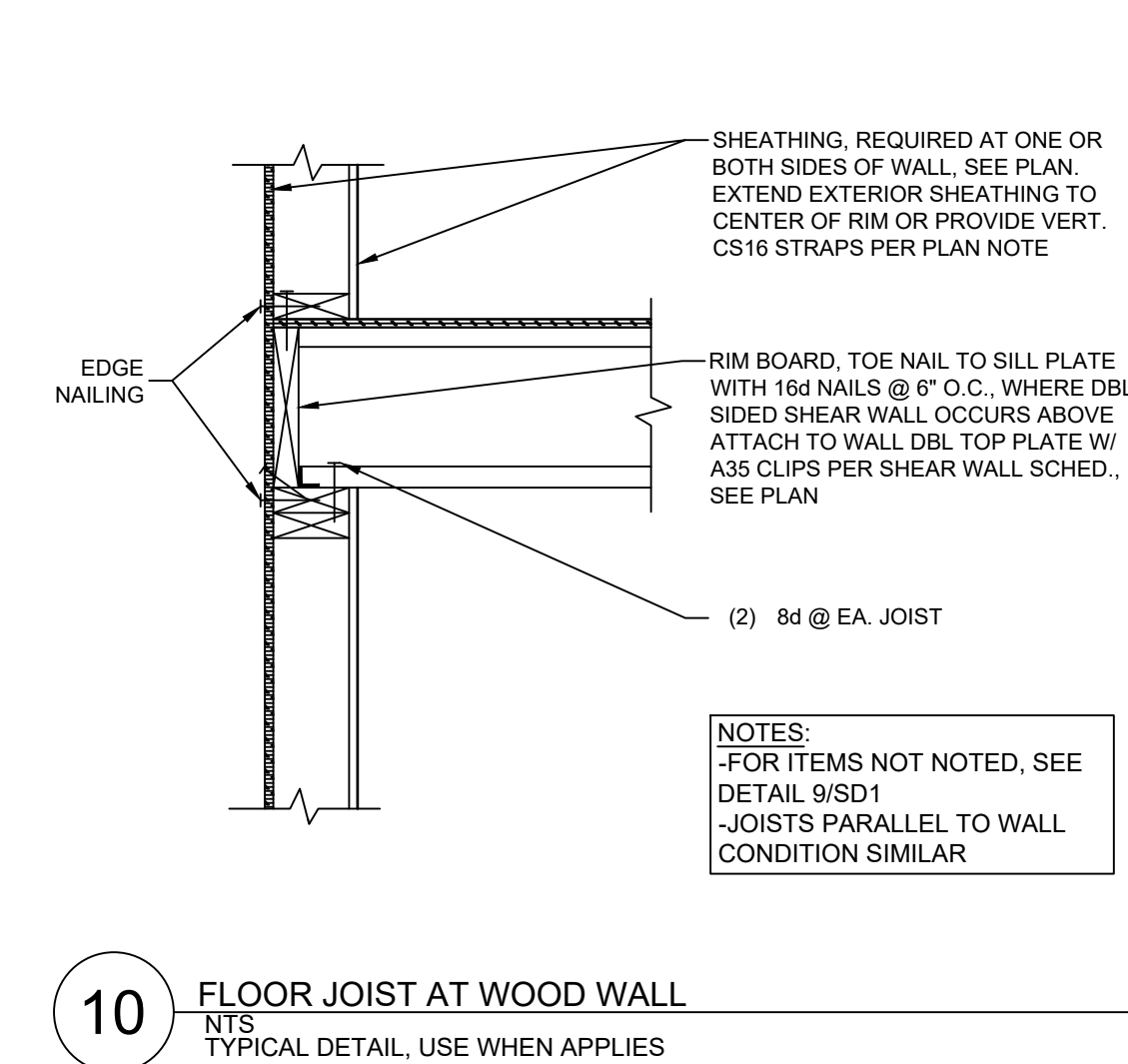
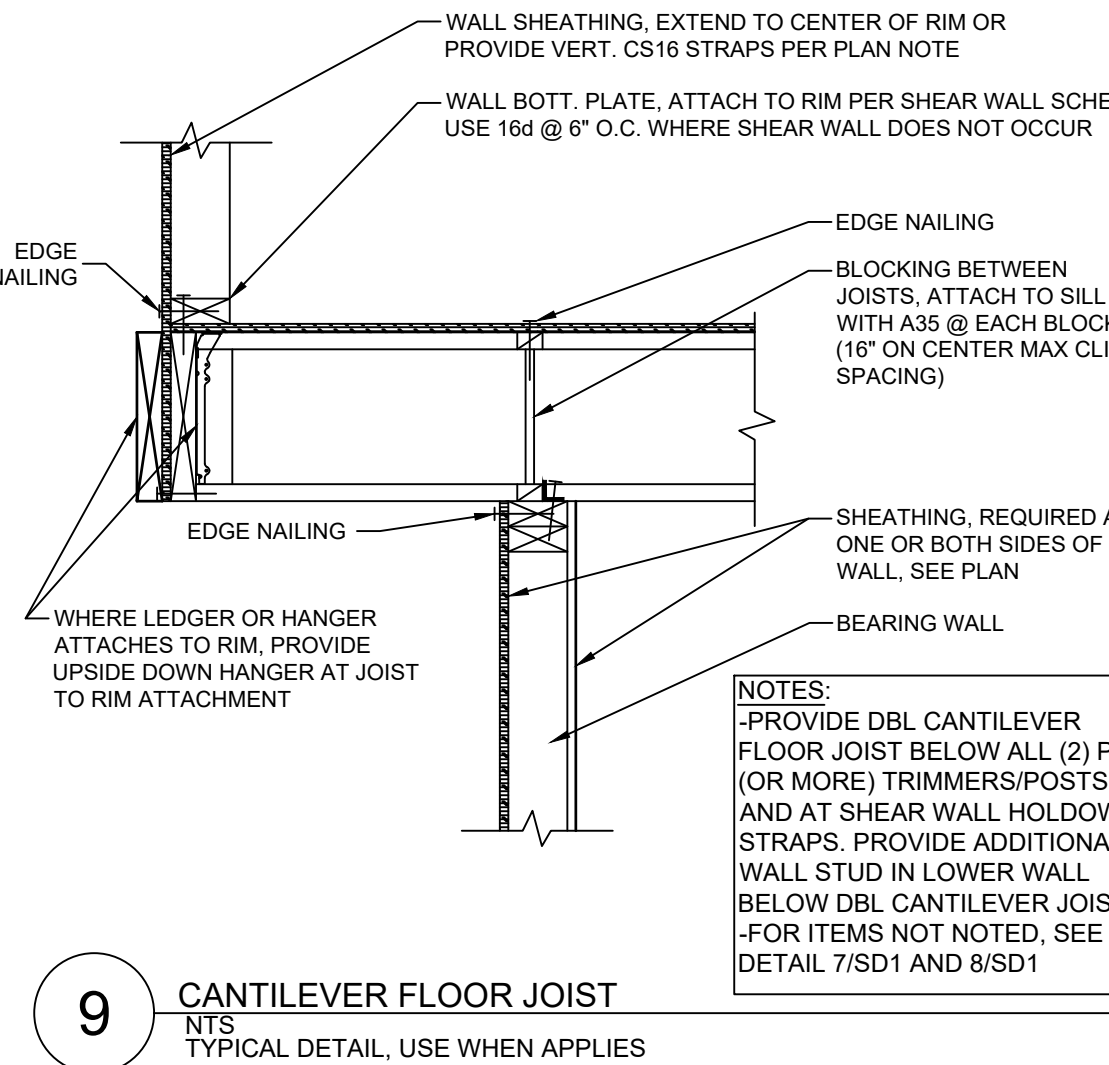
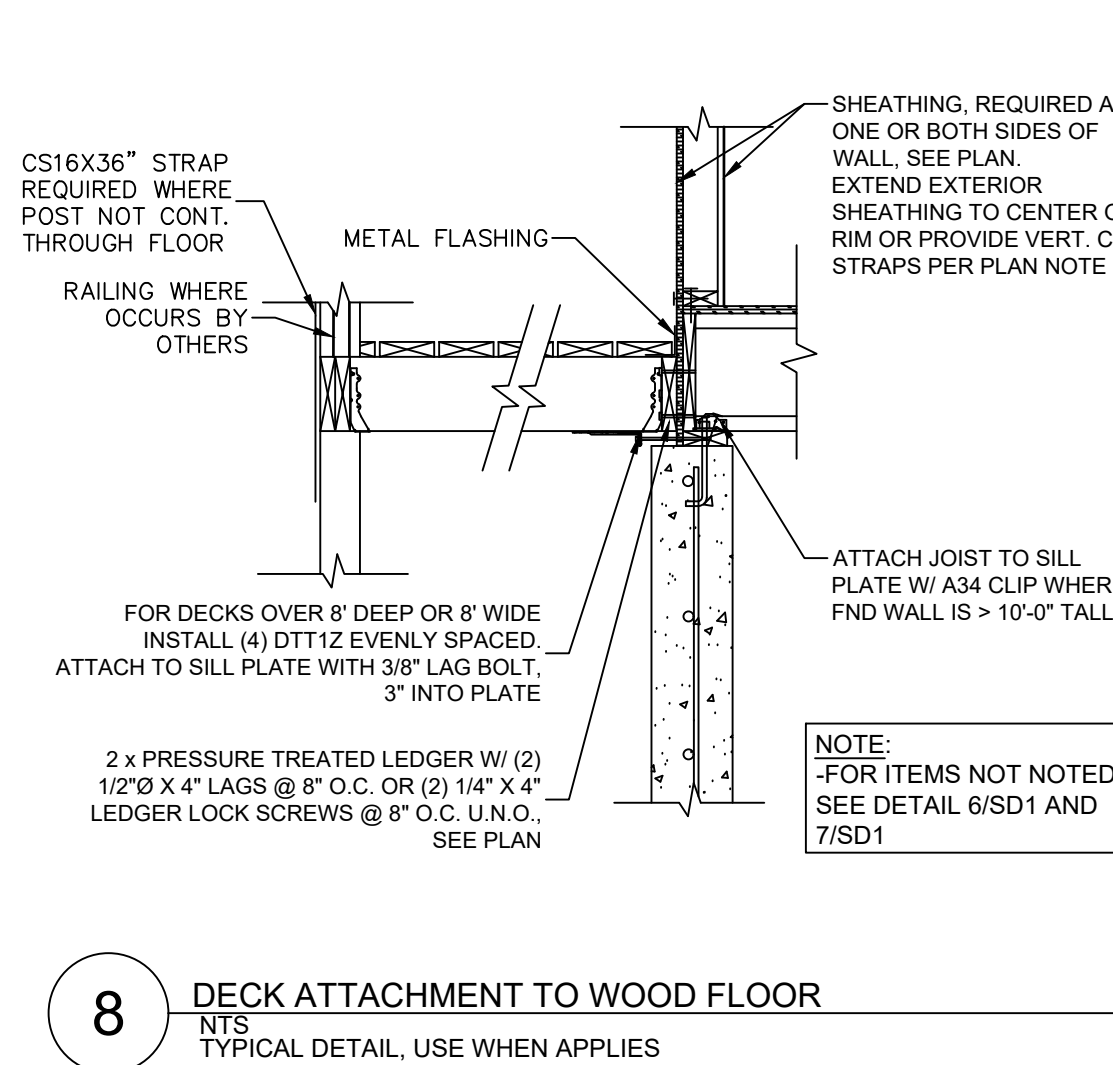
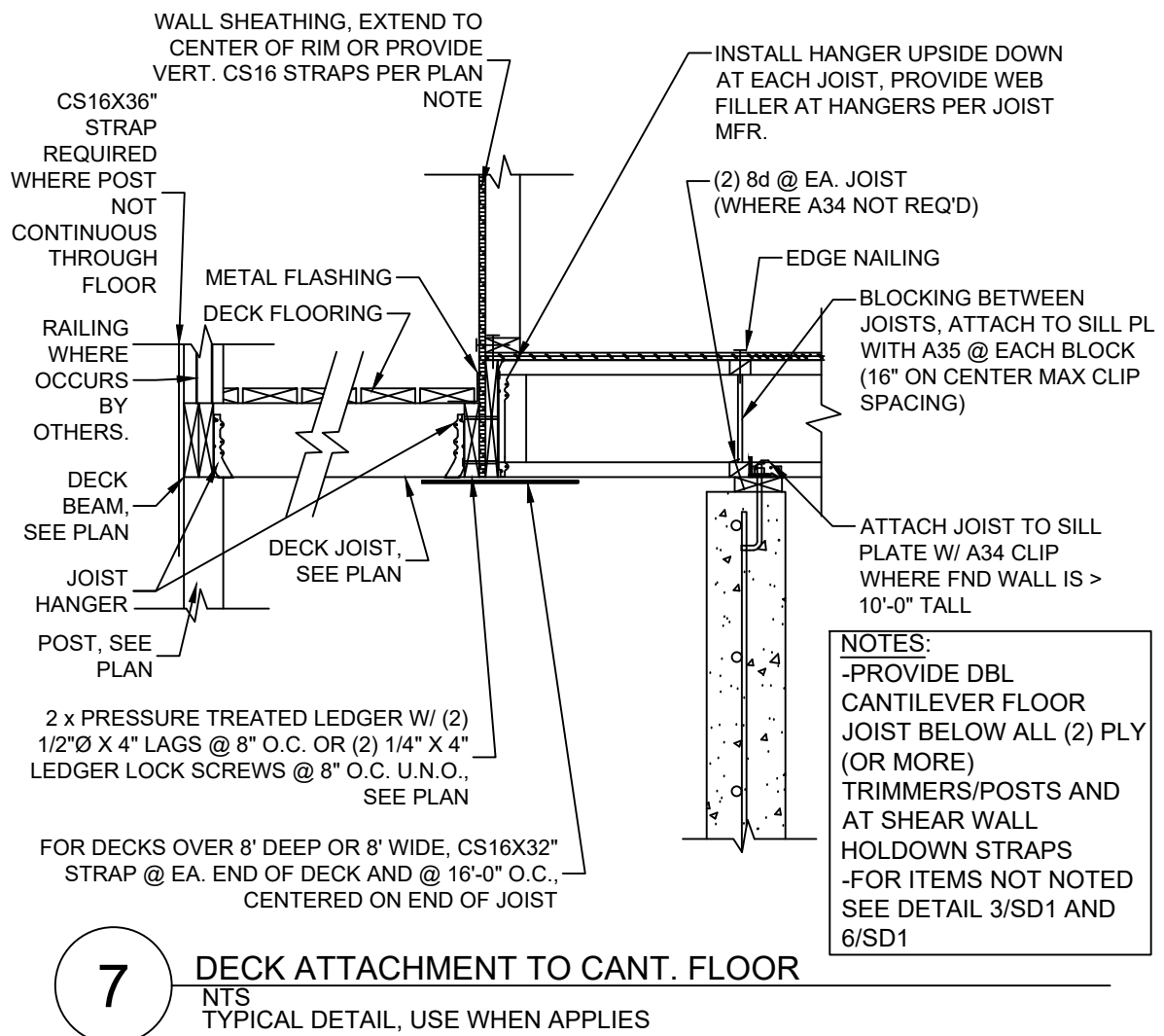
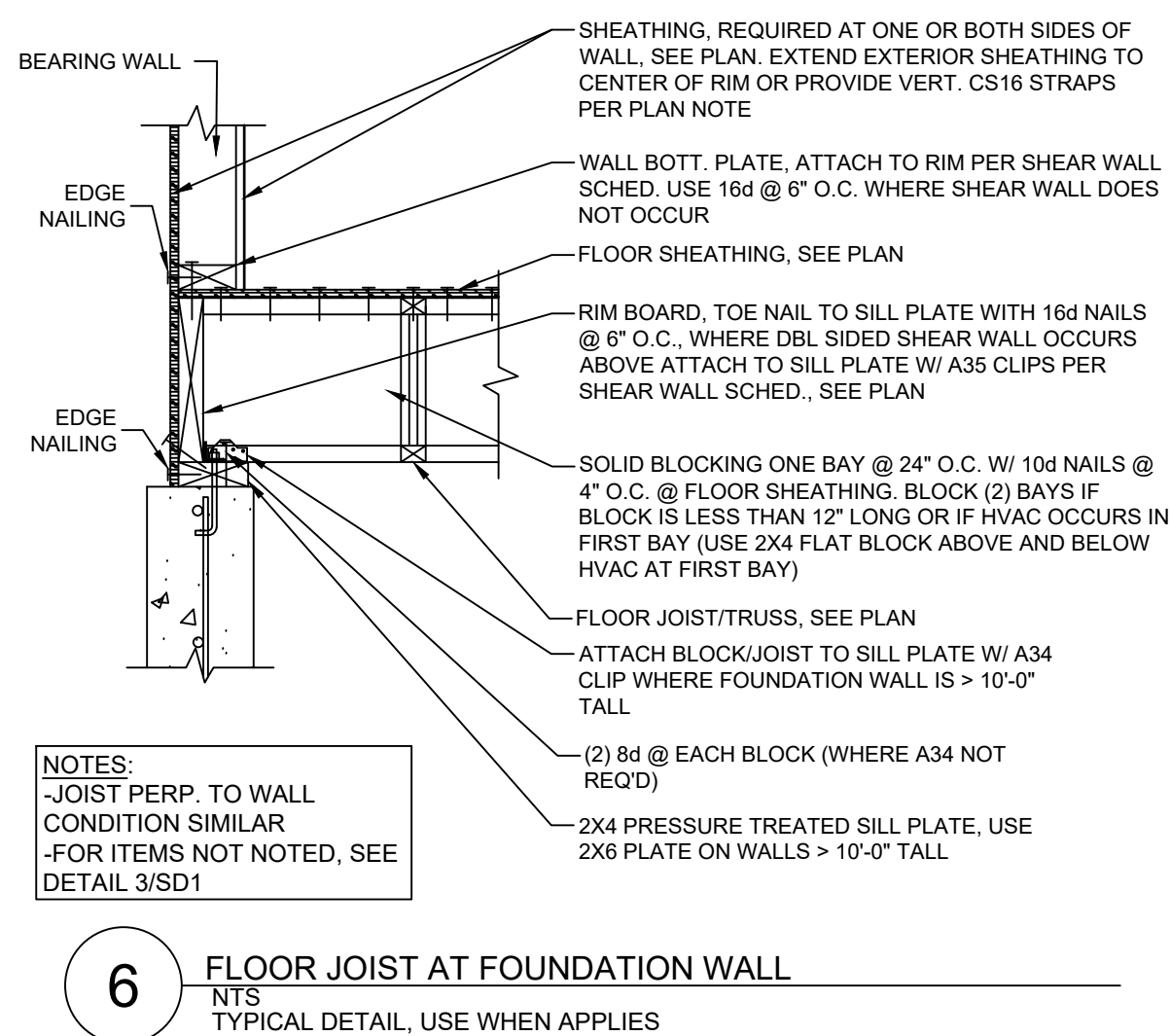
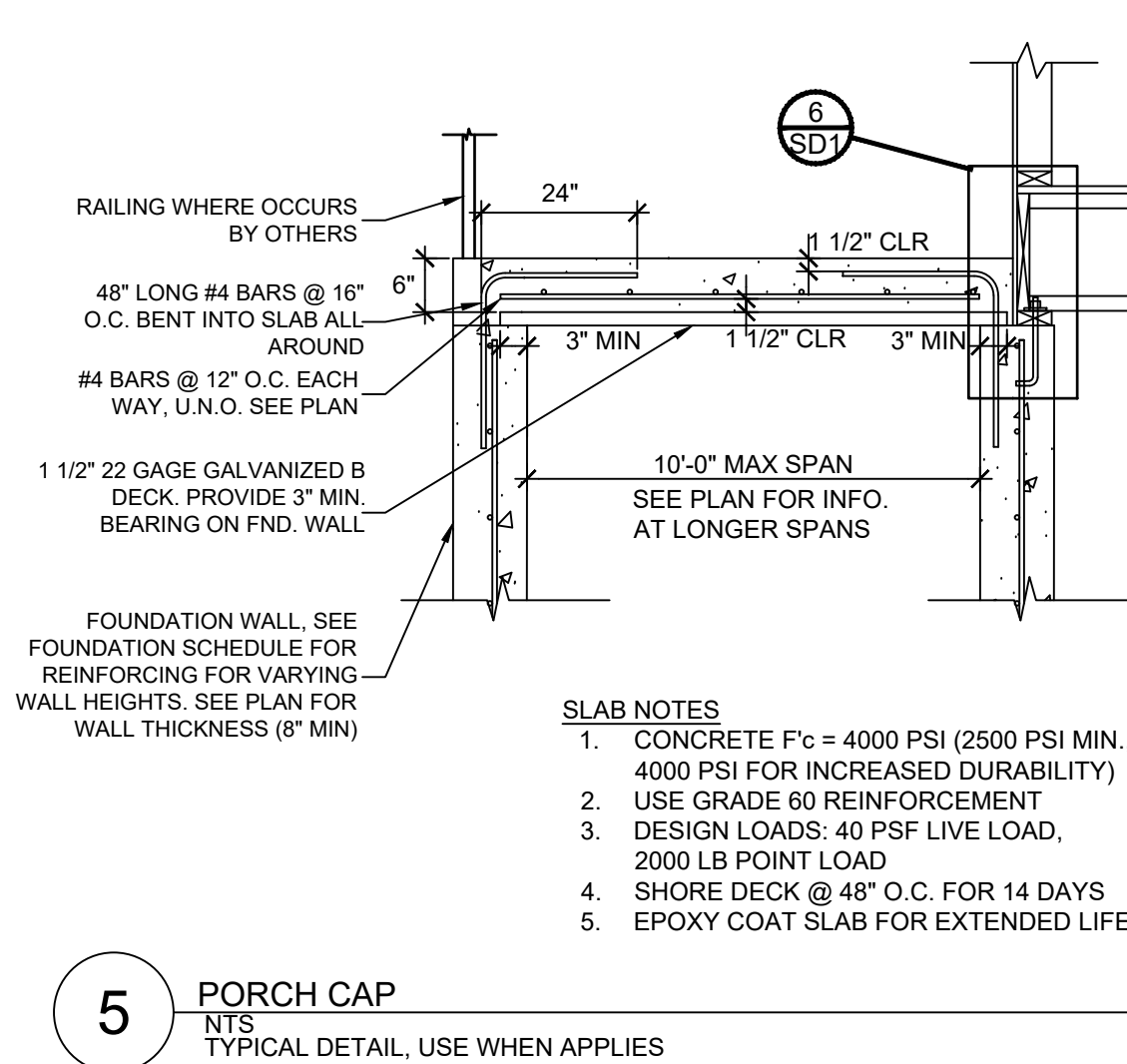
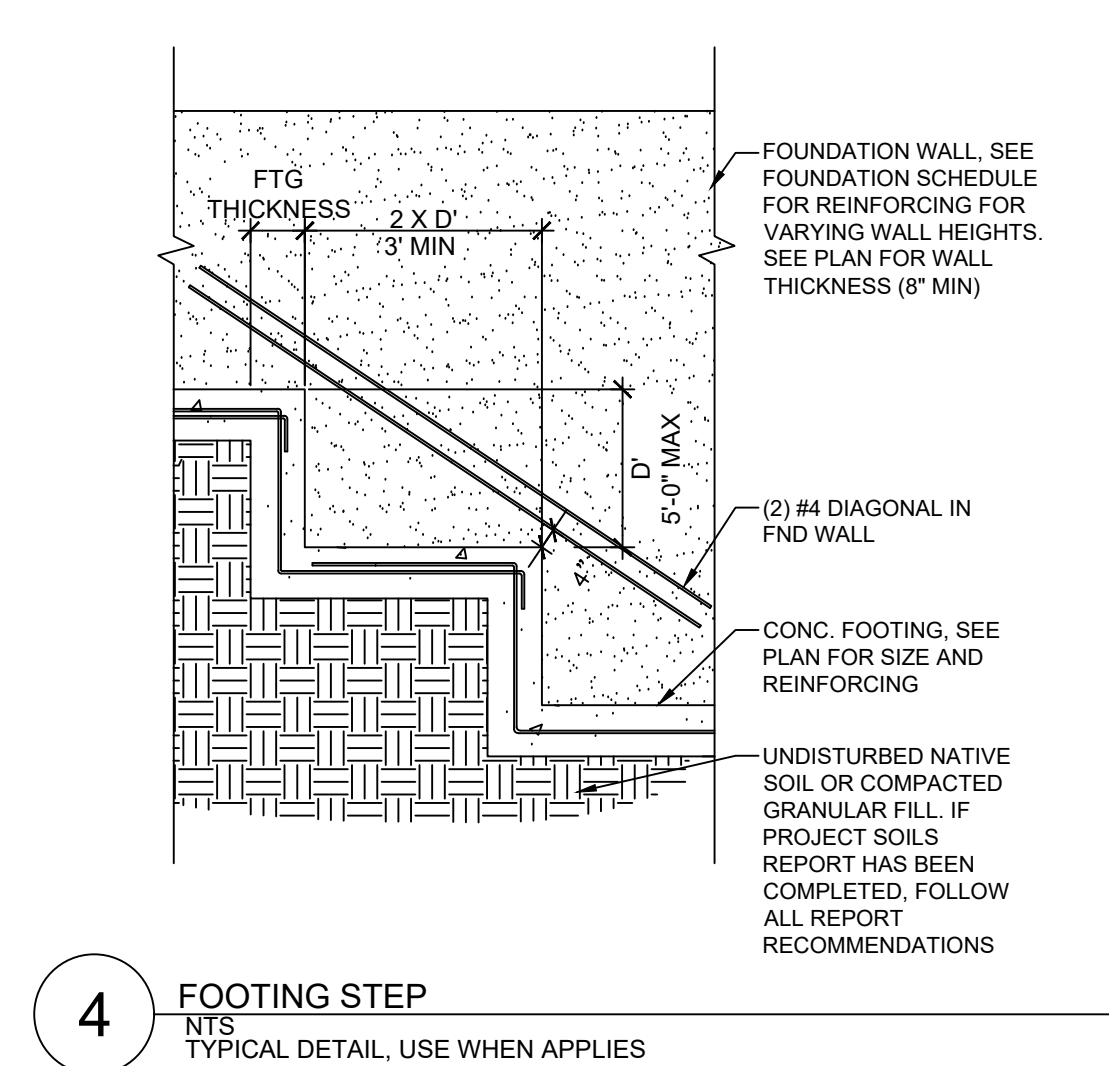
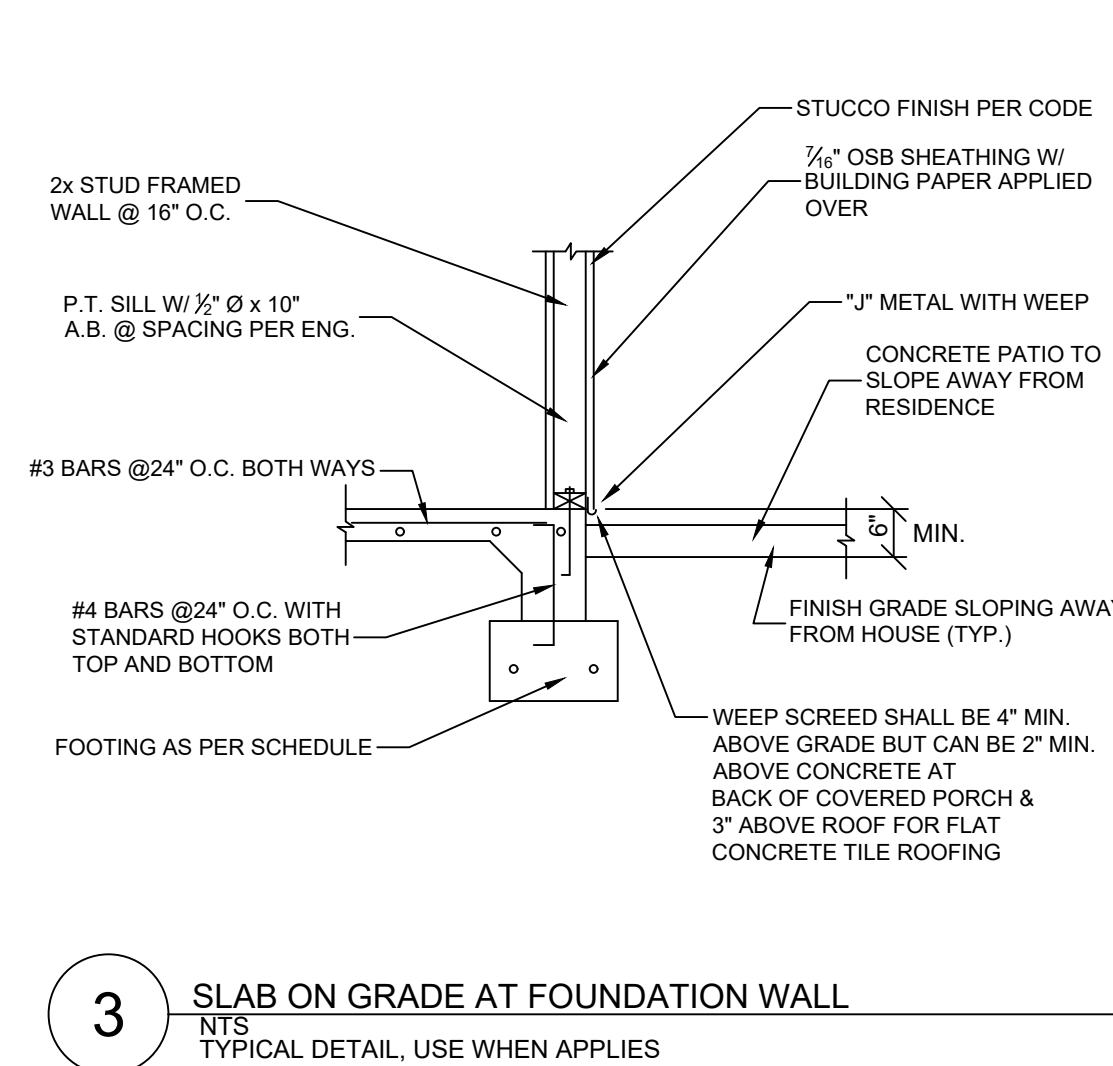
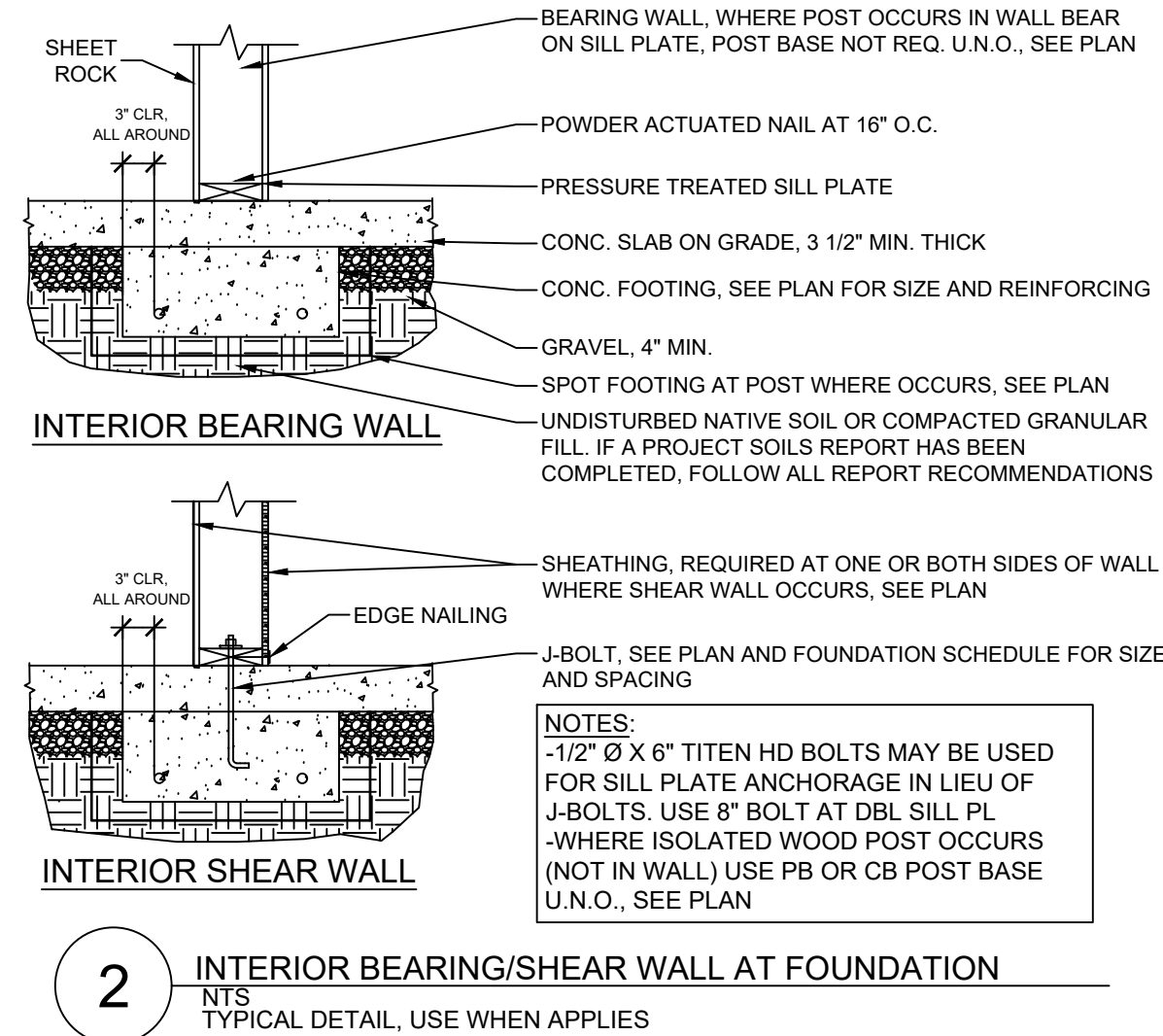
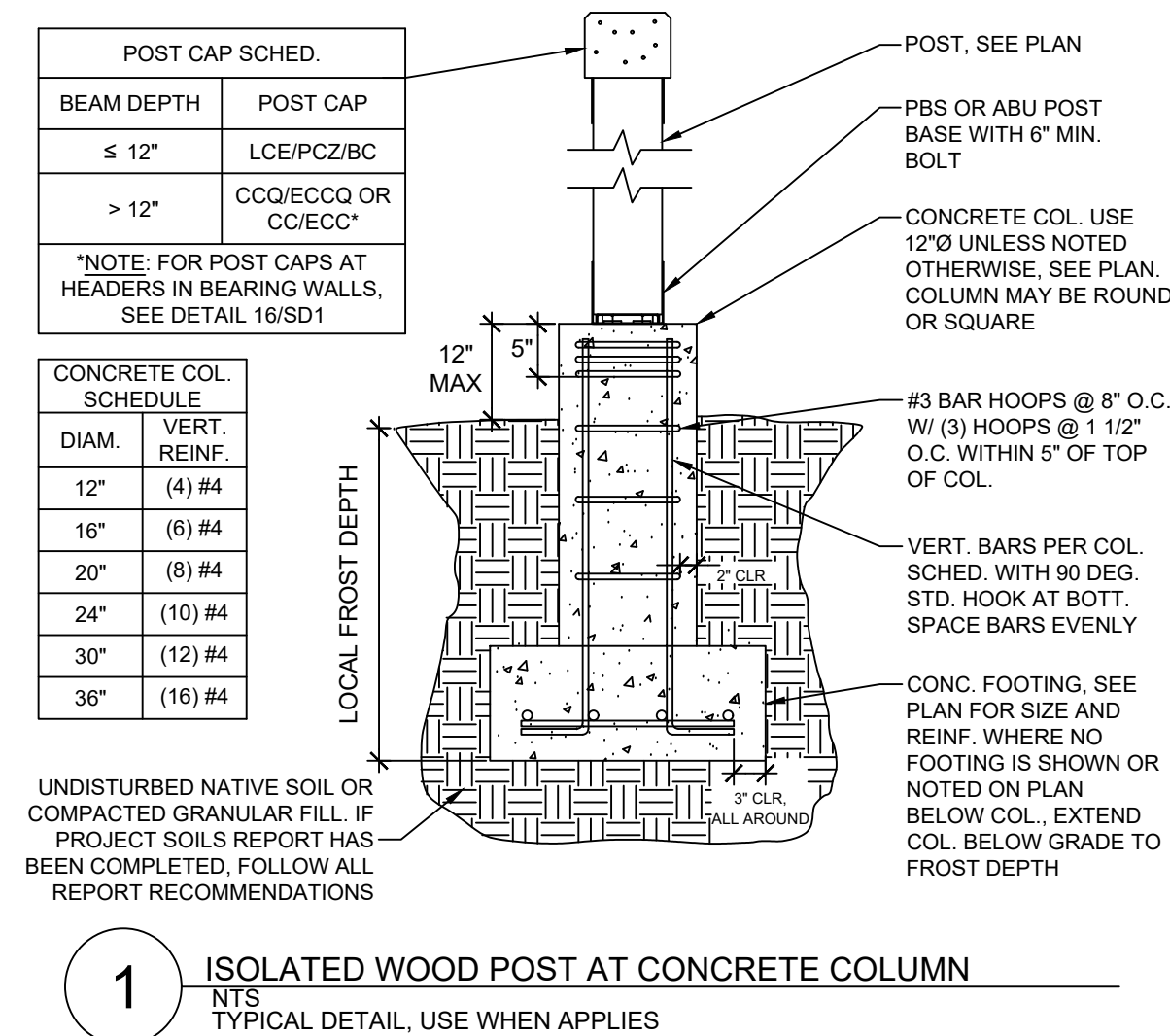
1893E. 12200 S.
DRAPER, UT

S6c



ROOF FRAMING PLAN

SCALE: 1/4"=1'-0"



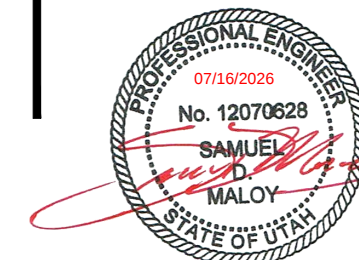
WALL HEIGHT	STUD FRAMING
0'-0"	2X4's @ 16" O.C. ²
10'-1" - 12'	2X4's @ 12" O.C. ²
0'-12"	2X6's @ 16" O.C.
12'-1" - 14'	2X6's @ 16" O.C.
14'-1" - 16'	2X6's @ 12" O.C.
16'-1" - 20'	2X6's @ 8" O.C.

NOTES:

1. FOR WALLS TALLER THAN 20' AND/OR OPENINGS GREATER THAN 18' WIDE. SEE PLAN.
2. USE 2X6 STUDS FOR ALL WALLS SUPPORTING 3 OR MORE FLOOR/ROOF LOADS.
3. KING STUDS/TRIMMERS NOTED REQUIRED AT EACH END OF WALL OPENING.
4. NAIL KING/TRIMMER PLYS TOGETHER W/ (2) 16d NAILS @ 9" O.C.

ALL DETAILS MAY NOT BE APPLICABLE TO YOUR PLANS
IF MARKED TYPICAL, USE AT ALL APPLICABLE LOCATIONS

Engineer's Stamp:



Structural Design and Analysis
720 S. River Road, Suite D2000
St. George, Utah 84790
(801)876-3501

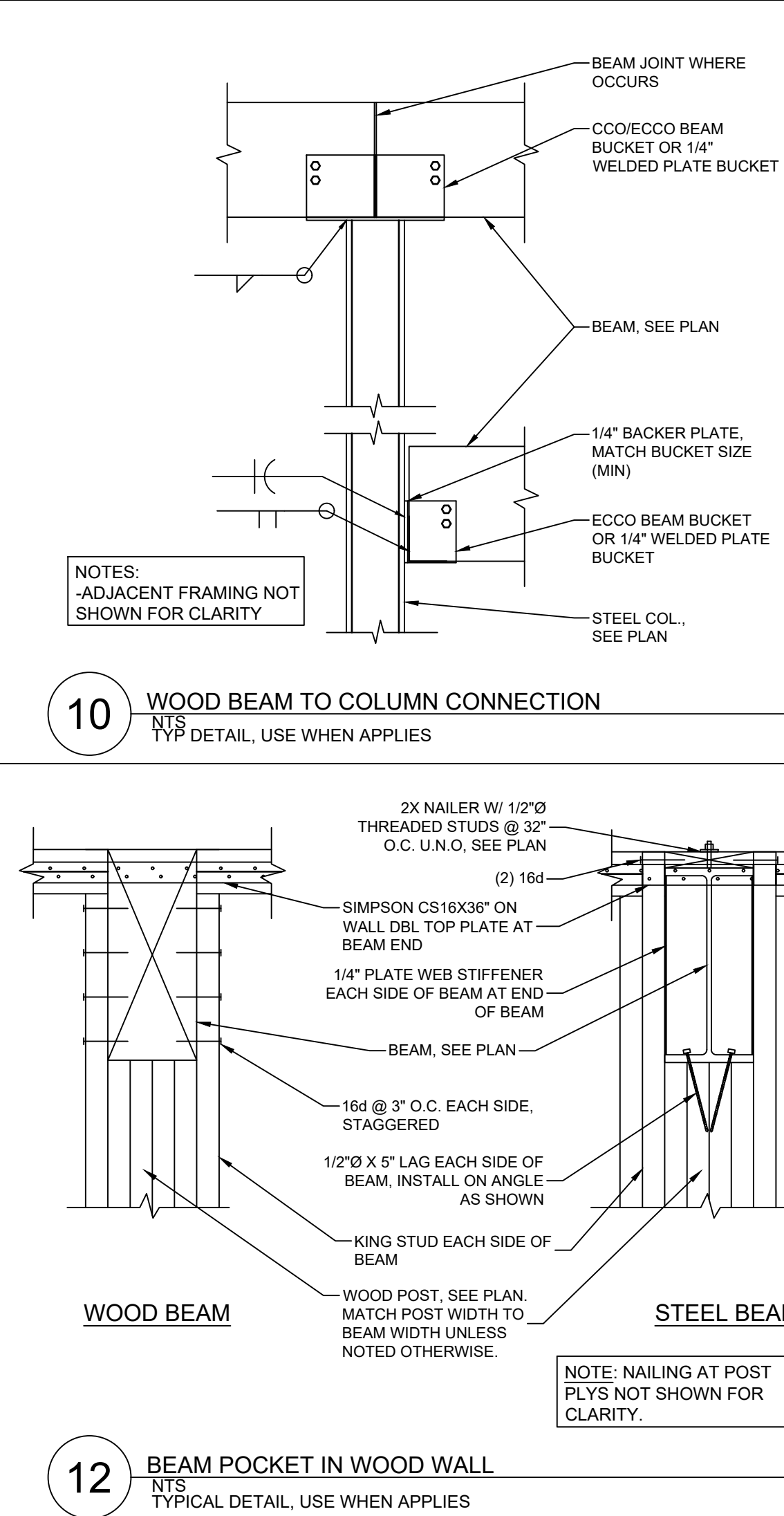
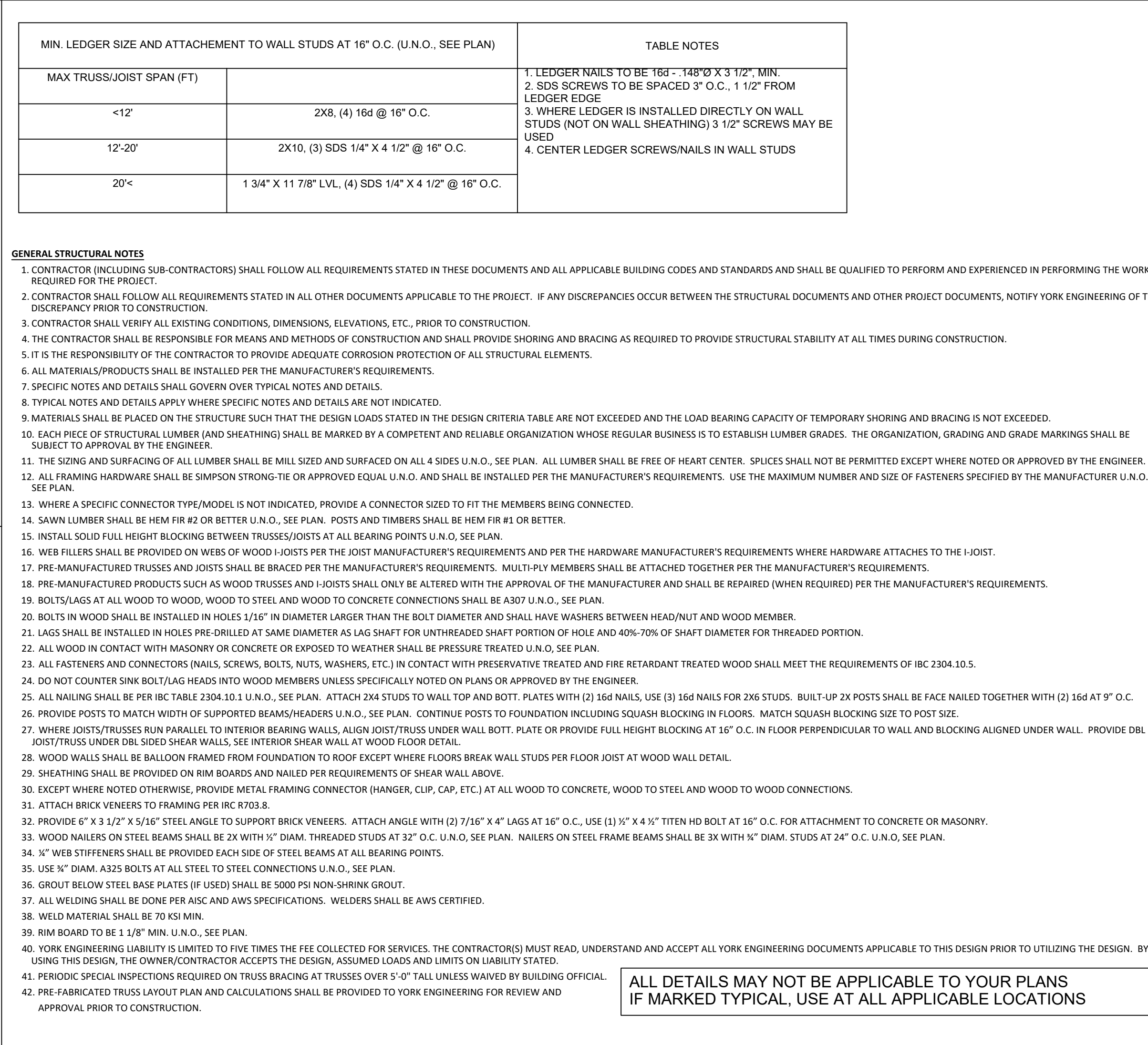
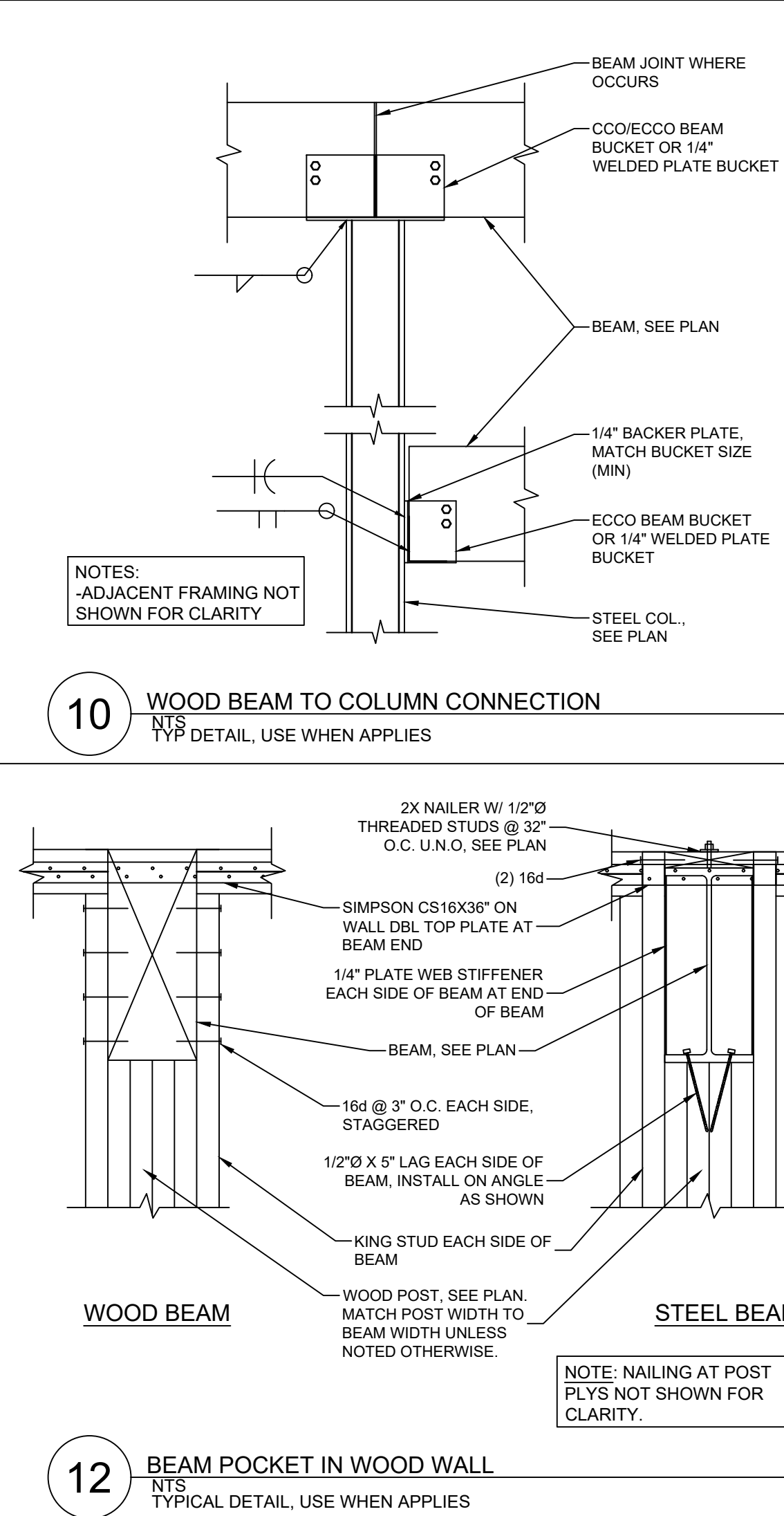
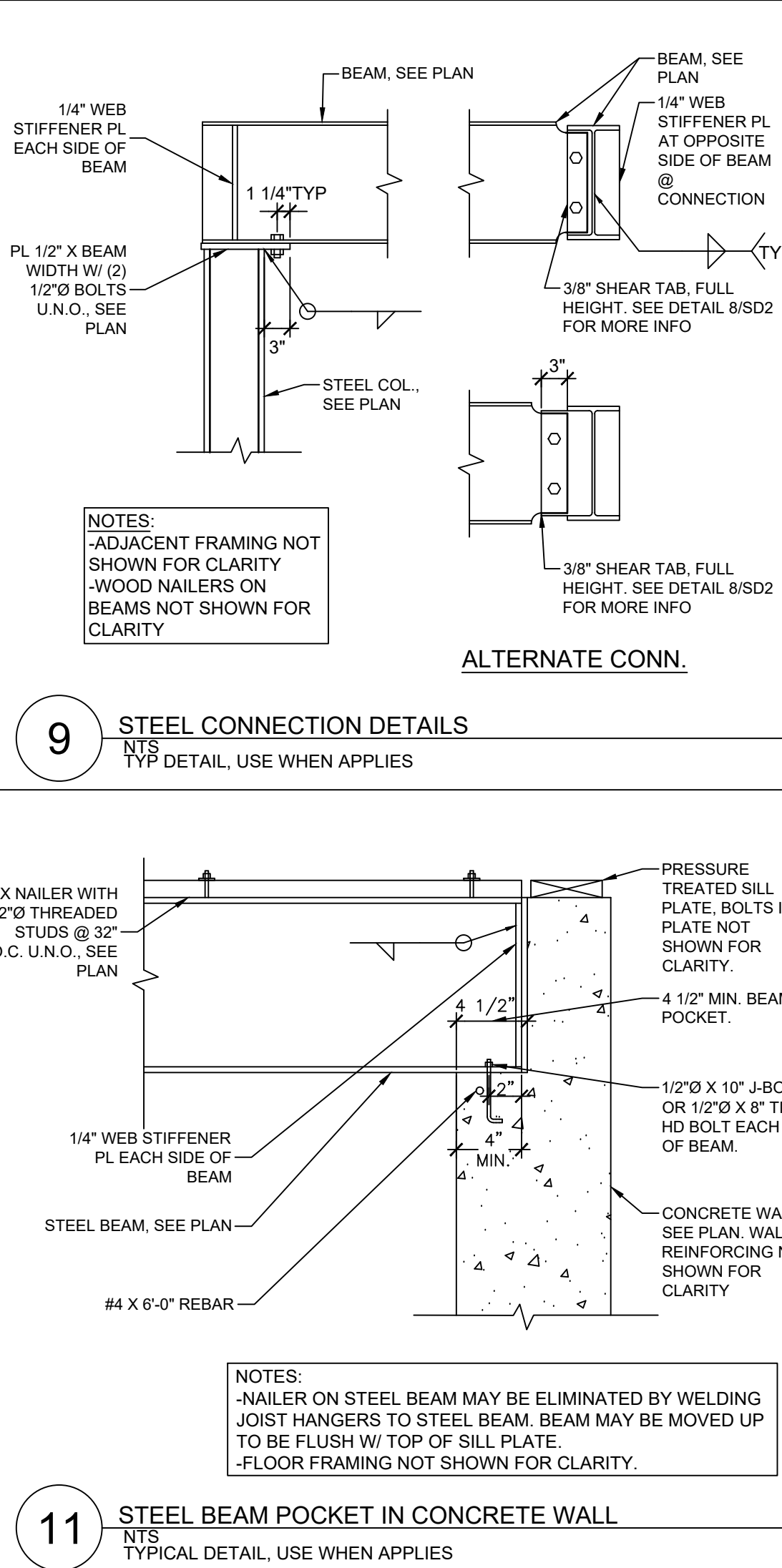
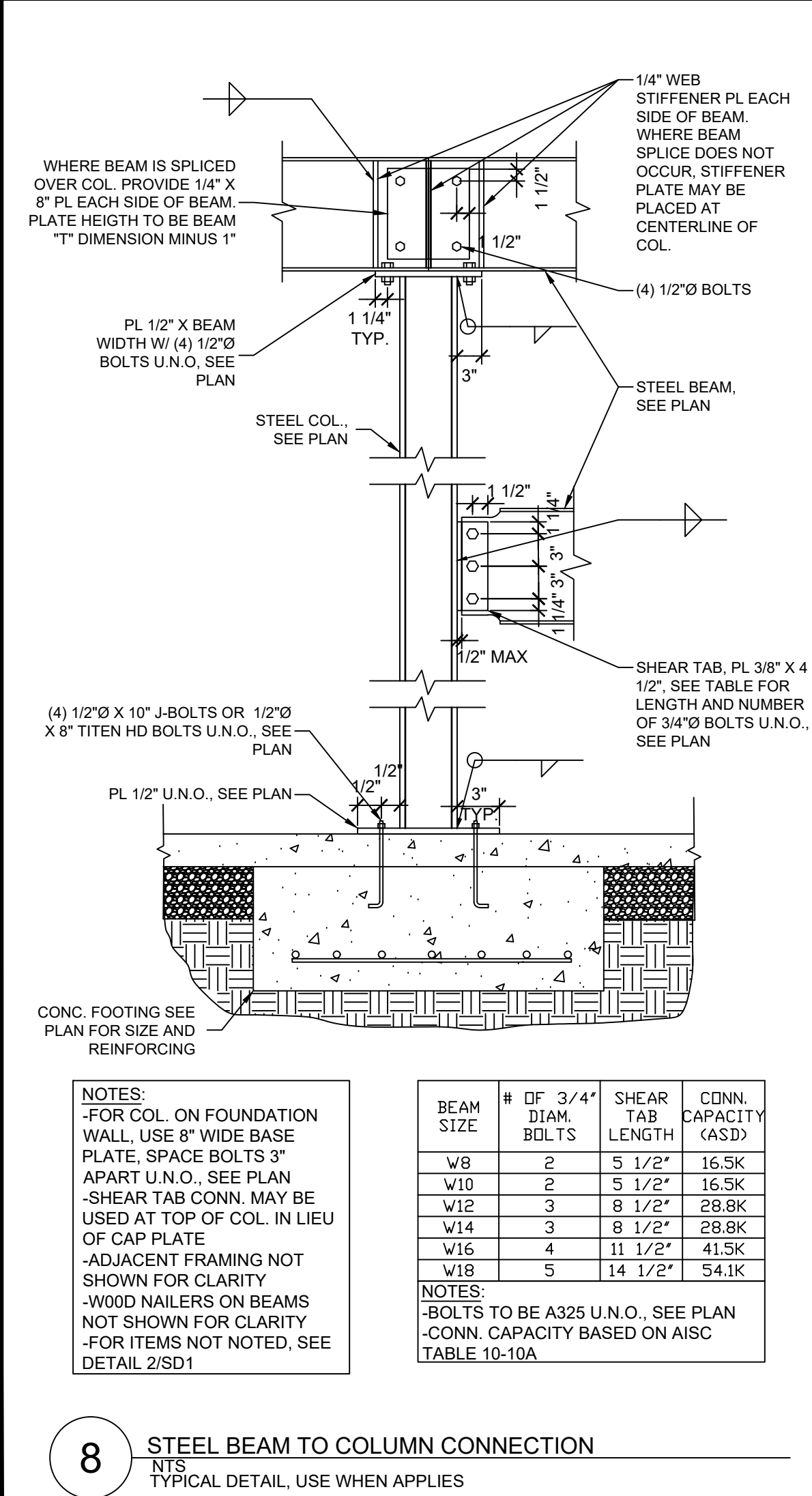
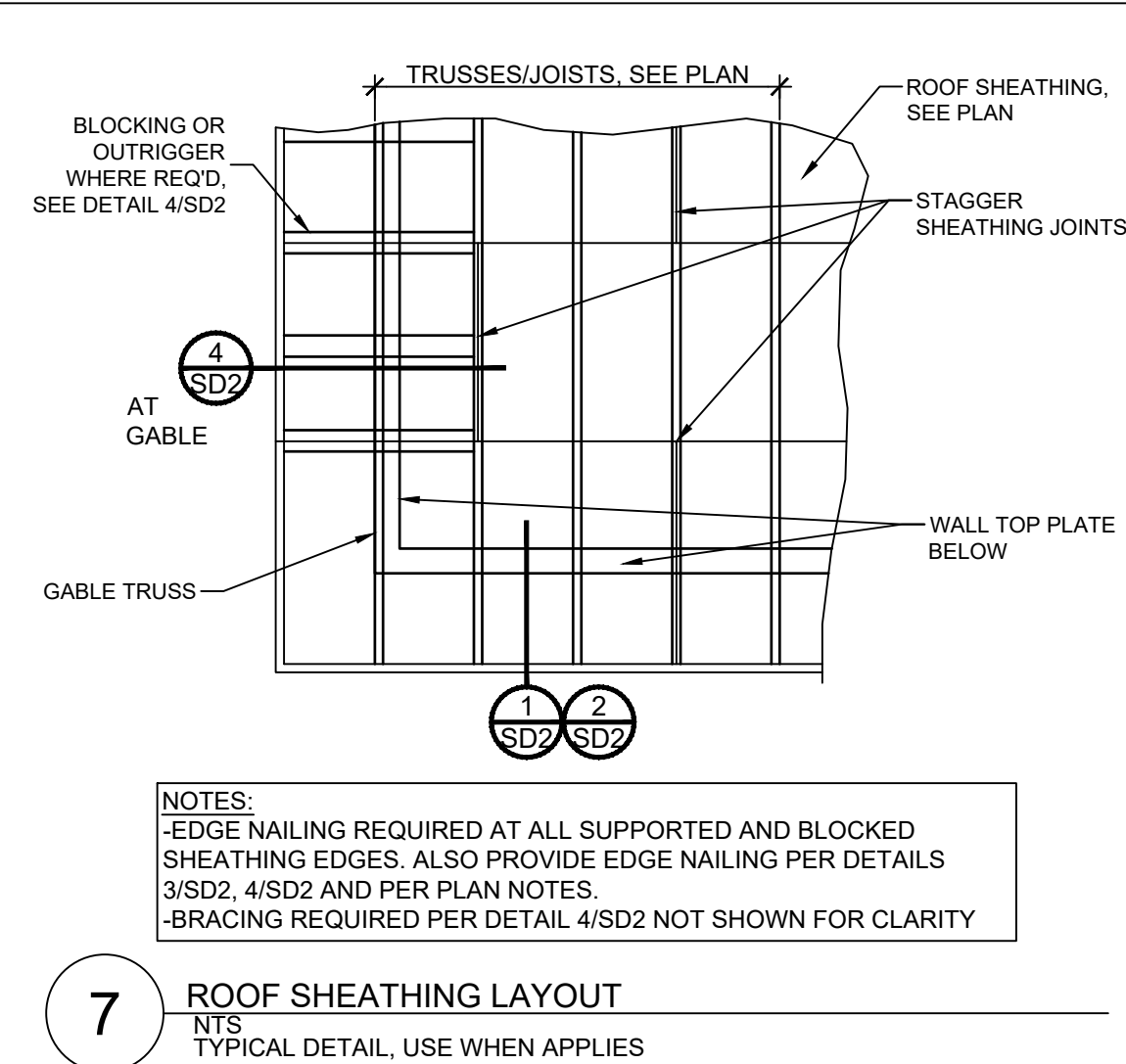
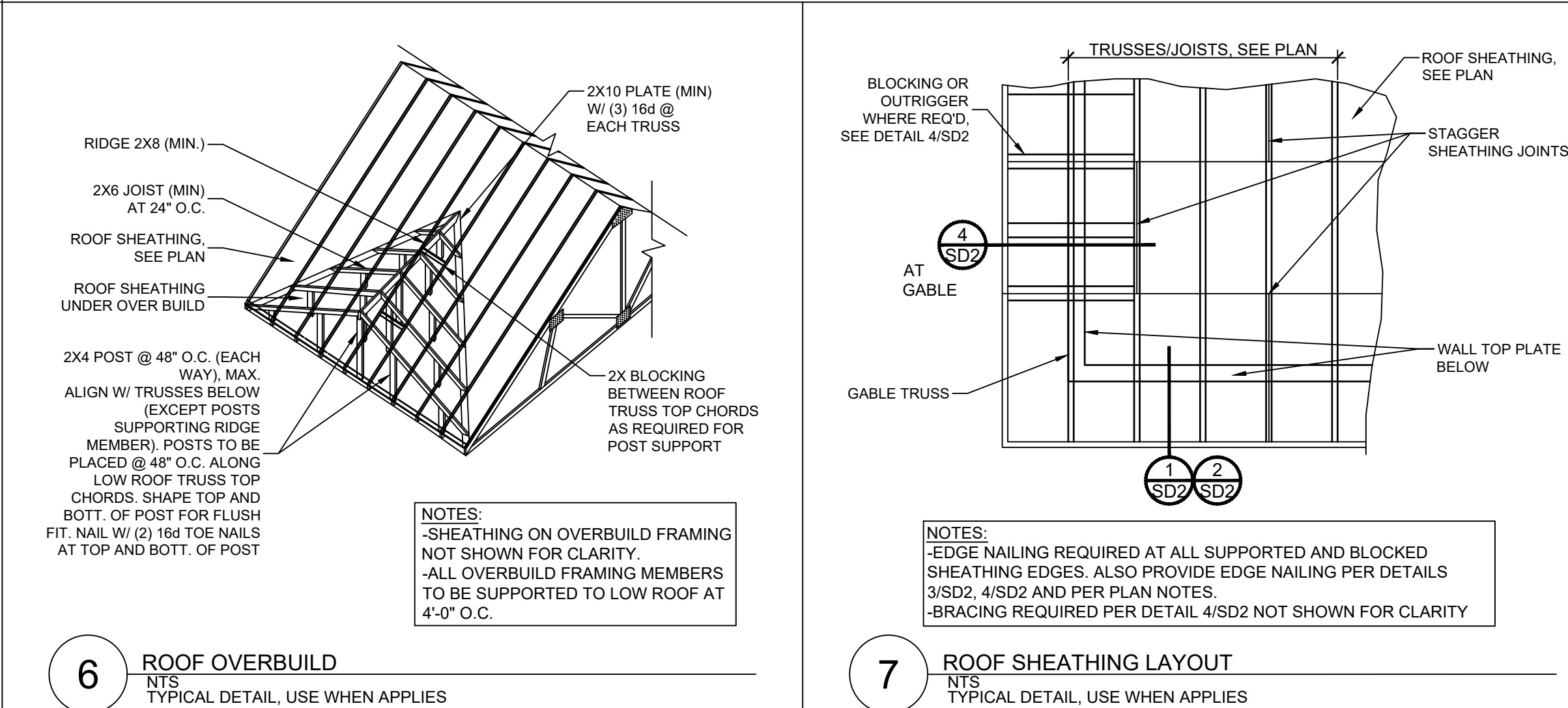
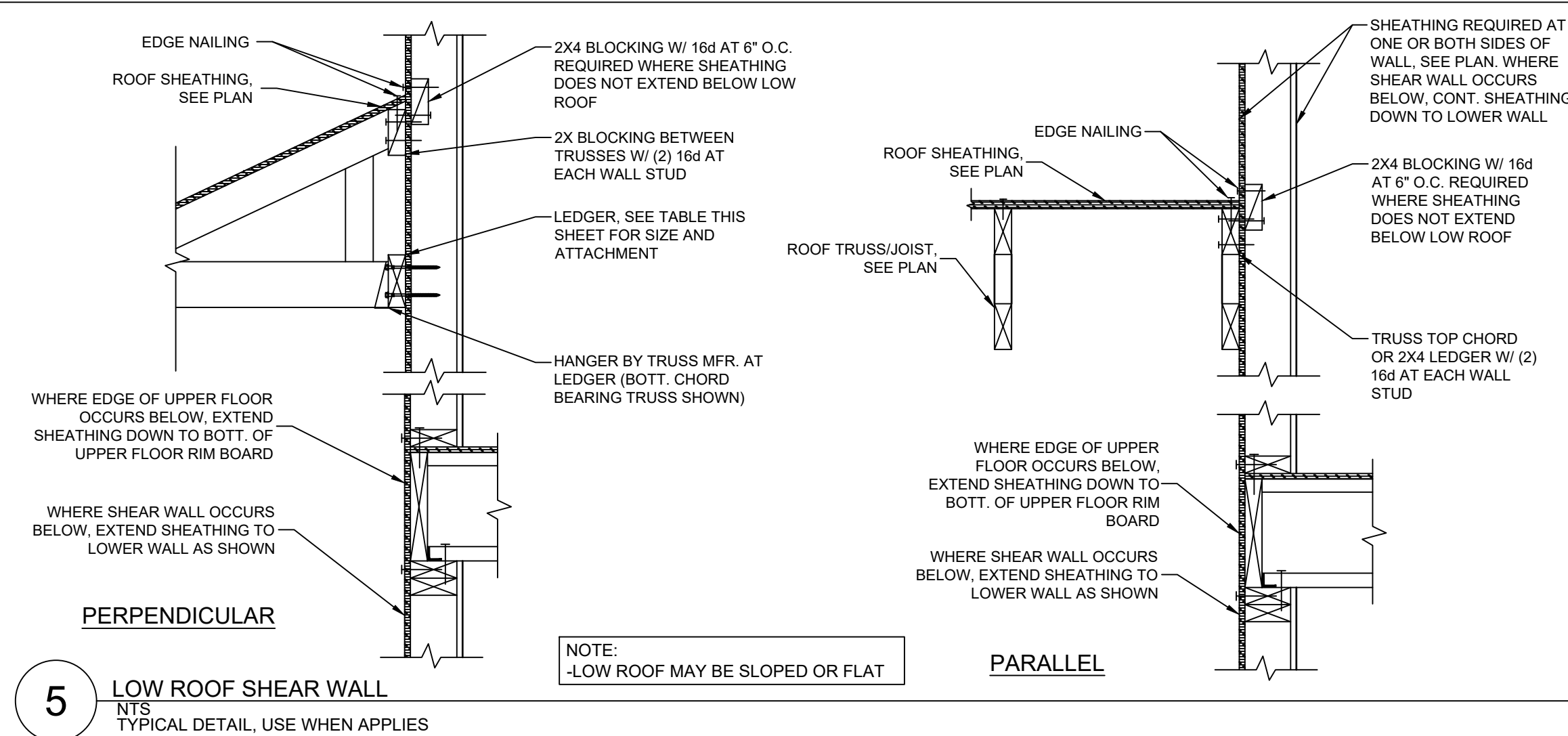
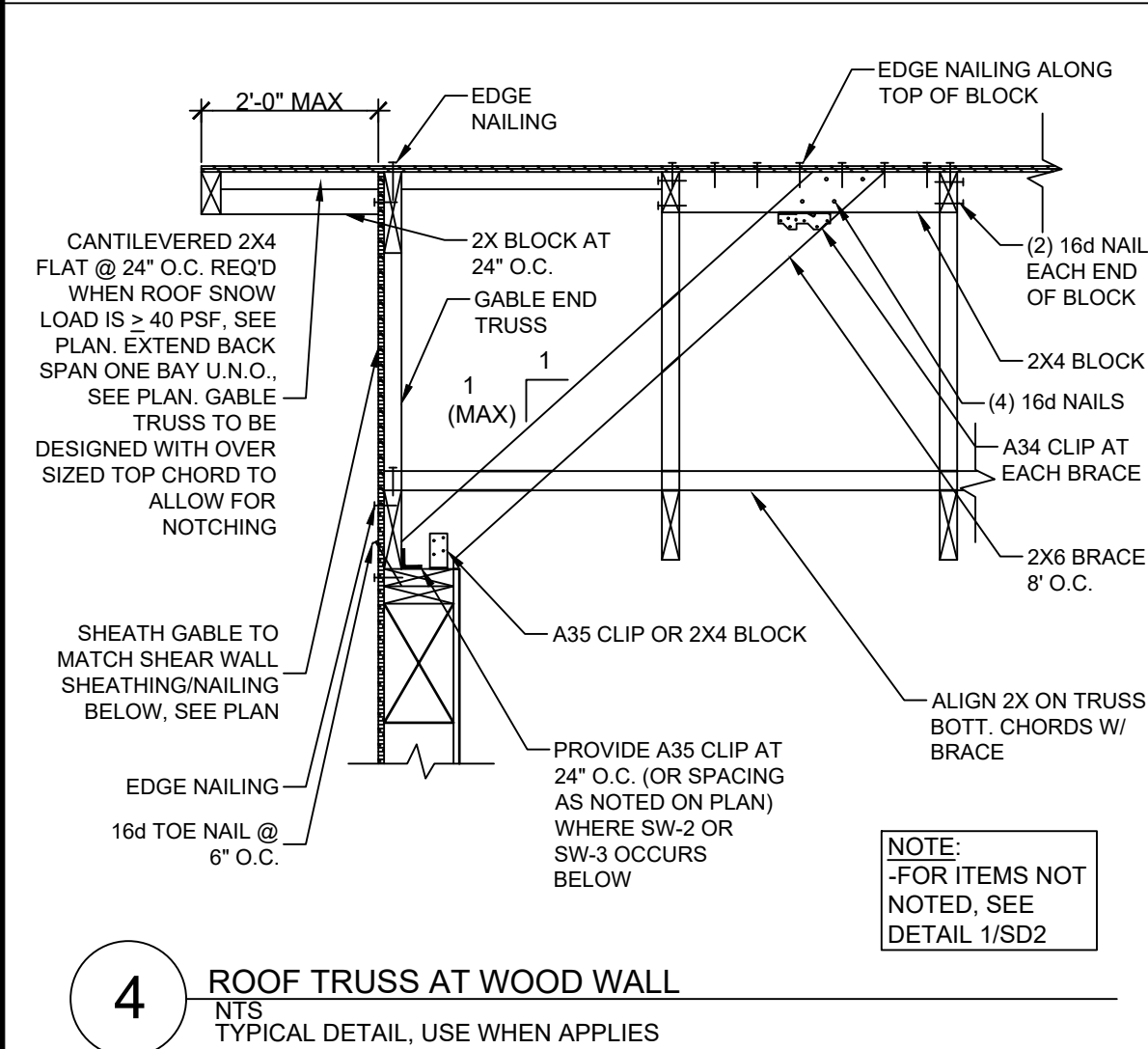
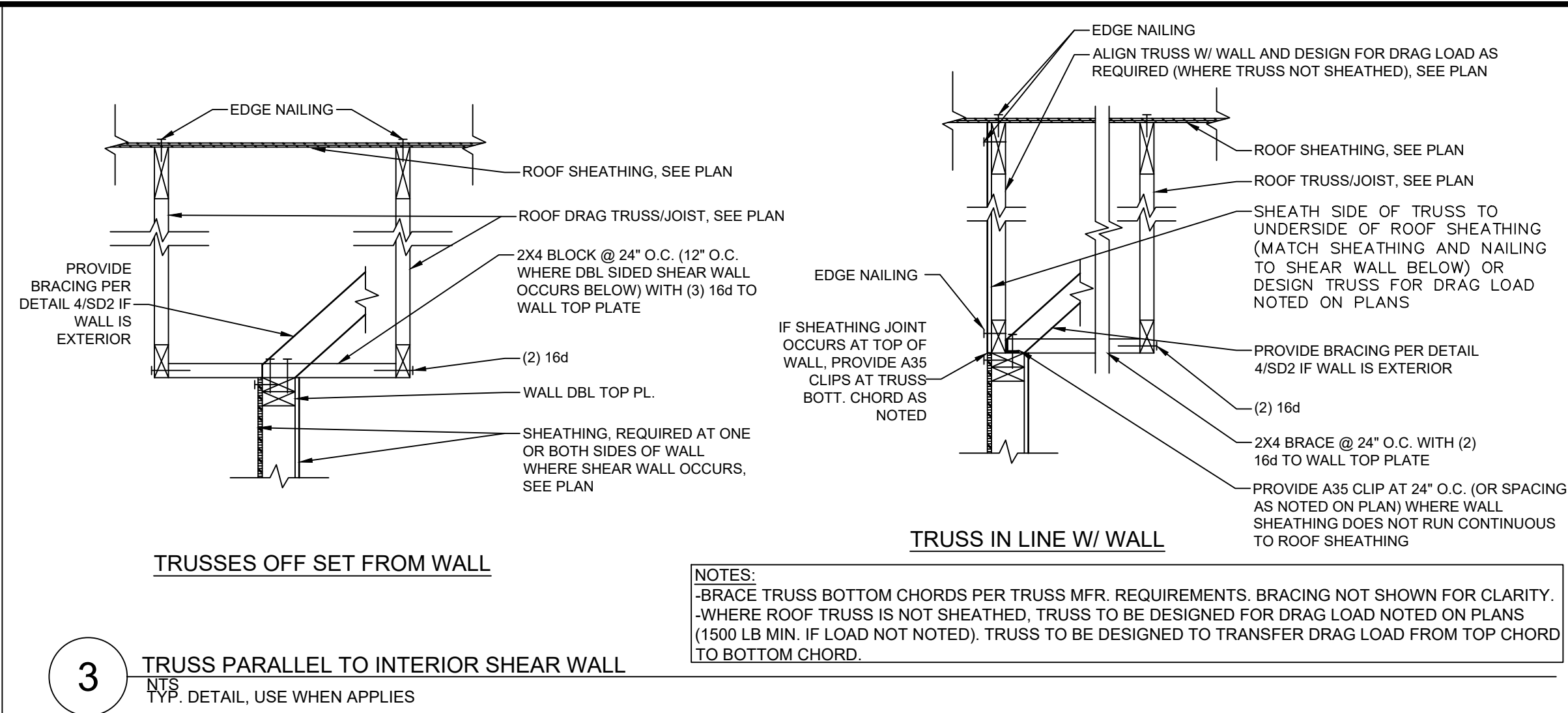
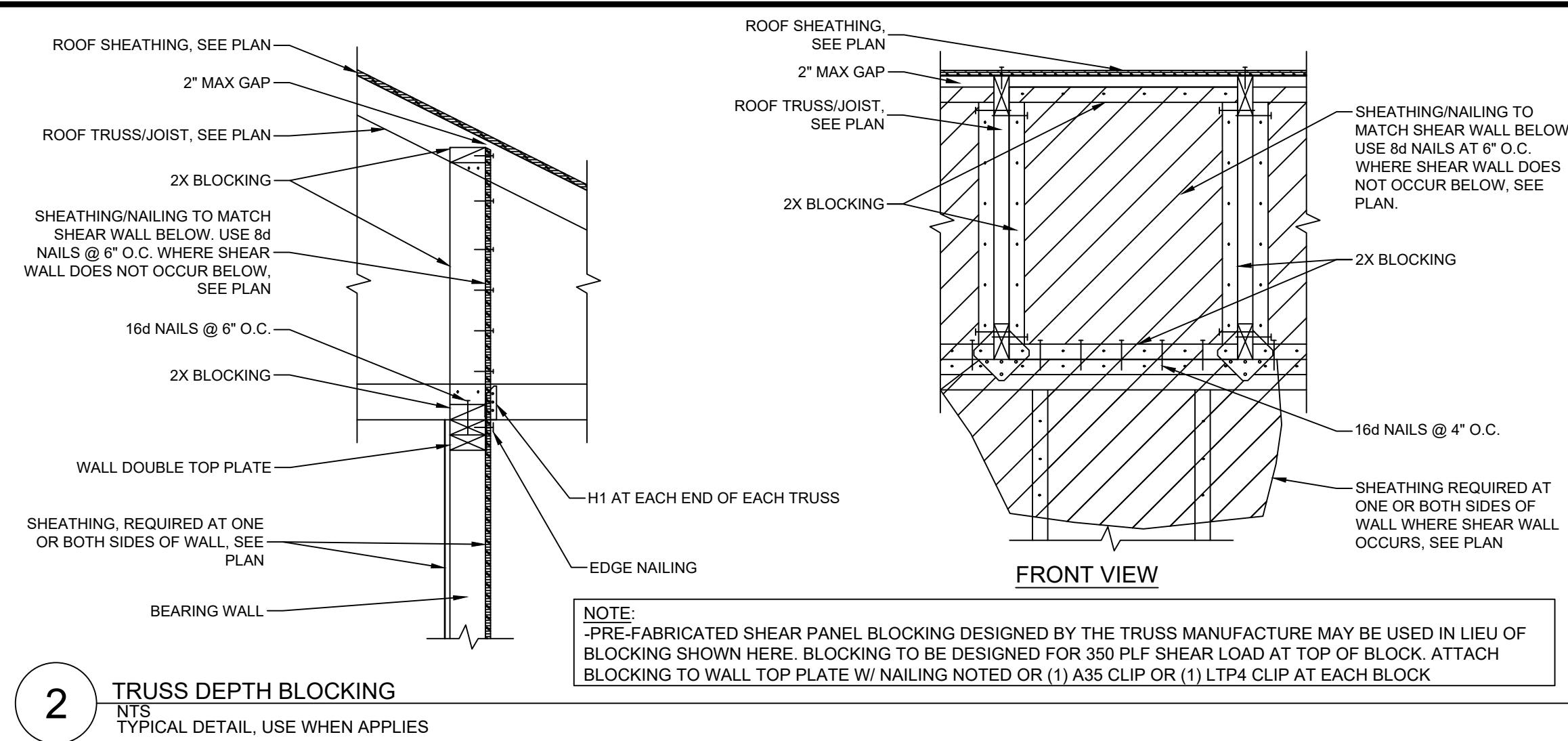
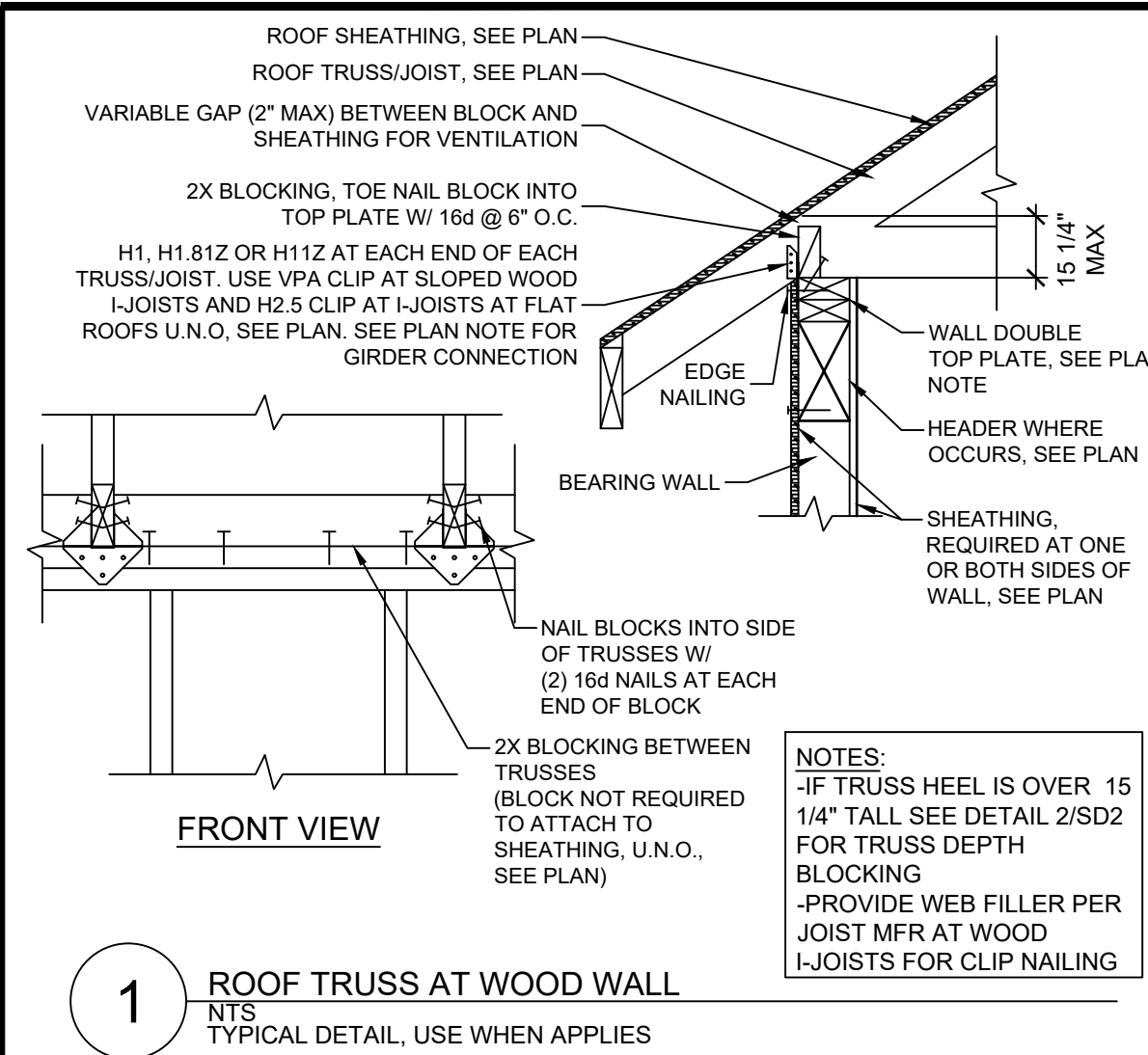
	Date	Author	Note
1	7/15/26	CH	Submitted for permitting

ENGINEER: CH
REVIEWER: SM

FELLER RESIDENCE

1893E. 12200 S.
DRAPER, UT

SD 1



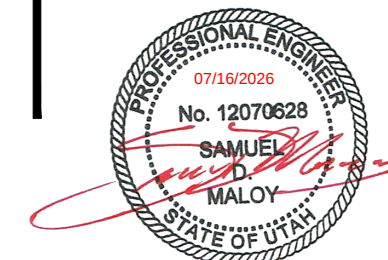
MIN. LEDGER SIZE AND ATTACHMENT TO WALL STUDS AT 16" O.C. (U.N.O., SEE PLAN)		TABLE NOTES
MAX TRUSS/JOIST SPAN (FT)		
<12'	2X8, (4) 16d @ 16" O.C.	1. LEDGER NAILS TO BE 16d - 148"0 X 3 1/2", MIN. 2. SDS SCREWS TO BE SPACED 3' O.C., 1 1/2" FROM LEDGER EDGE
12'-20'	2X10, (3) SDS 1/4" X 4 1/2" @ 16" O.C.	3. WHERE LEDGER IS INSTALLED DIRECTLY ON WALL STUDS (NOT ON WALL SHEATHING) 3 1/2" SCREWS MAY BE USED
20'<	1 3/4" X 11 7/8" LVL, (4) SDS 1/4" X 4 1/2" @ 16" O.C.	4. CENTER LEDGER SCREWS/NAILS IN WALL STUDS

GENERAL STRUCTURAL NOTES

- CONTRACTOR (INCLUDING SUB-CONTRACTORS) SHALL FOLLOW ALL REQUIREMENTS STATED IN THESE DOCUMENTS AND ALL APPLICABLE BUILDING CODES AND STANDARDS AND SHALL BE QUALIFIED TO PERFORM AND EXPERIENCED IN PERFORMING THE WORK REQUIRED FOR THE PROJECT.
- CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS STATED IN ALL OTHER DOCUMENTS APPLICABLE TO THE PROJECT. IF ANY DISCREPANCIES OCCUR BETWEEN THE STRUCTURAL DOCUMENTS AND OTHER PROJECT DOCUMENTS, NOTIFY YORK ENGINEERING OF THE DISCREPANCY PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, ELEVATIONS, ETC., PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION AND SHALL PROVIDE SHORING AND BRACING AS REQUIRED TO PROVIDE STRUCTURAL STABILITY AT ALL TIMES DURING CONSTRUCTION.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ADEQUATE CORROSION PROTECTION OF ALL STRUCTURAL ELEMENTS.
- ALL MATERIALS/PRODUCTS SHALL BE INSTALLED PER THE MANUFACTURER'S REQUIREMENTS.
- SPECIFIC NOTES AND DETAILS SHALL GOVERN OVER TYPICAL NOTES AND DETAILS.
- TYPICAL NOTES AND DETAILS APPLY WHERE SPECIFIC NOTES AND DETAILS ARE NOT INDICATED.
- MATERIALS SHALL BE PLACED ON THE STRUCTURE SUCH THAT THE DESIGN LOADS STATED IN THE DESIGN CRITERIA TABLE ARE NOT EXCEEDED AND THE LOAD BEARING CAPACITY OF TEMPORARY SHORING AND BRACING IS NOT EXCEEDED.
- EACH PIECE OF STRUCTURAL LUMBER (AND SHEATHING) SHALL BE MARKED BY A COMPETENT AND RELIABLE ORGANIZATION WHOSE REGULAR BUSINESS IS TO ESTABLISH LUMBER GRADES. THE ORGANIZATION, GRADING AND GRADE MARKINGS SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER.
- THE SIZING AND SURFACING OF ALL LUMBER SHALL BE MILL SIZED AND SURFACED ON ALL 4 SIDES U.N.O., SEE PLAN. ALL LUMBER SHALL BE FREE OF HEART CENTER. SPLICES SHALL NOT BE PERMITTED EXCEPT WHERE NOTED OR APPROVED BY THE ENGINEER.
- ALL FRAMING HARDWARE SHALL BE SIMPSON STRONG-TIE OR APPROVED EQUAL U.N.O. AND SHALL BE INSTALLED PER THE MANUFACTURER'S REQUIREMENTS. USE THE MAXIMUM NUMBER AND SIZE OF FASTENERS SPECIFIED BY THE MANUFACTURER U.N.O., SEE PLAN.
- WHERE A SPECIFIC CONNECTOR TYPE/MODEL IS NOT INDICATED, PROVIDE A CONNECTOR SIZED TO FIT THE MEMBERS BEING CONNECTED.
- SAWN LUMBER SHALL BE HEM FIR #2 OR BETTER U.N.O., SEE PLAN. POSTS AND TIMBERS SHALL BE HEM FIR #1 OR BETTER.
- INSTALL SOLID FULL HEIGHT BLOCKING BETWEEN TRUSSES/JOISTS AT ALL BEARING POINTS U.N.O. SEE PLAN.
- WEB FILLERS SHALL BE PROVIDED ON WEBS OF WOOD JOISTS PER THE JOIST MANUFACTURER'S REQUIREMENTS AND PER THE HARDWARE MANUFACTURER'S REQUIREMENTS WHERE HARDWARE ATTACHES TO THE I-JOIST.
- PRE-MANUFACTURED TRUSSES AND JOISTS SHALL BE BRACED PER THE MANUFACTURER'S REQUIREMENTS. MULTI-PLY MEMBERS SHALL BE ATTACHED TOGETHER PER THE MANUFACTURER'S REQUIREMENTS.
- PRE-MANUFACTURED PRODUCTS SUCH AS WOOD TRUSSES AND JOISTS SHALL ONLY BE ALTERED WITH THE APPROVAL OF THE MANUFACTURER AND SHALL BE REPAIRED (WHEN REQUIRED) PER THE MANUFACTURER'S REQUIREMENTS.
- BOLTS/LAGS AT ALL WOOD TO WOOD, WOOD TO STEEL AND WOOD TO CONCRETE CONNECTIONS SHALL BE A307 U.N.O., SEE PLAN.
- BOLTS IN WOOD SHALL BE INSTALLED IN HOLES 1/16" IN DIAMETER LARGER THAN THE BOLT DIAMETER AND SHALL HAVE WASHERS BETWEEN HEAD/NUT AND WOOD MEMBER.
- LAGS SHALL BE INSTALLED IN HOLES PRE-DRILLED AT SAME DIAMETER AS LAG SHAFT FOR UNTHREADED SHAFT PORTION OF HOLE AND 40%-70% OF SHAFT DIAMETER FOR THREADED PORTION.
- ALL FASTENERS AND CONNECTORS (NAILS, SCREWS, BOLTS, NUTS, WASHERS, ETC.) IN CONTACT WITH PRESERVATIVE TREATED AND FIRE RETARDANT TREATED WOOD SHALL MEET THE REQUIREMENTS OF IRC 2304.10.5.
- DO NOT COUNTER SINK BOLT/LAG HEADS INTO WOOD MEMBERS UNLESS SPECIFICALLY NOTED ON PLANS OR APPROVED BY THE ENGINEER.
- ALL NAILING SHALL BE PER IRC TABLE 2304.10.1 U.N.O., SEE PLAN. ATTACH 2X4 STUDS TO WALL TOP AND BOTTL. PLATES WITH (2) 16d NAILS, USE (3) 16d NAILS FOR 2X6 STUDS. BUILT-UP 2X POSTS SHALL BE FACE NAILED TOGETHER WITH (2) 16d AT 9" O.C.
- PROVIDE POSTS TO MATCH WIDTH OF SUPPORTED BEAMS/HEADERS U.N.O., SEE PLAN. CONTINUE POSTS TO FOUNDATION INCLUDING SQUASH BLOCKING IN FLOORS. MATCH SQUASH BLOCKING SIZE TO POST SIZE.
- WHERE JOISTS/TRUSSES RUN PARALLEL TO INTERIOR BEARING WALLS, ALIGN JOIST/TRUSS UNDER WALL BOTTL. PLATE OR PROVIDE FULL HEIGHT BLOCKING AT 16" O.C. IN FLOOR PERPENDICULAR TO WALL AND BLOCKING ALIGNED UNDER WALL. PROVIDE DBL JOIST/TRUSS UNDER DBL SIDED SHEAR WALLS, SEE INTERIOR SHEAR WALL AT WOOD FLOOR DETAIL.
- WOOD WALLS SHALL BE BALLOON FRAMED FROM FOUNDATION TO ROOF EXCEPT WHERE FLOORS BREAK WALL STUDS PER FLOOR JOIST AT WOOD WALL DETAIL.
- SHEATHING SHALL BE PROVIDED ON RM BOARDS AND NAILER PER REQUIREMENTS OF SHEAR WALL ABOVE.
- EXCEPT WHERE NOTED OTHERWISE, PROVIDE METAL FRAMING CONNECTOR (HANGER, CLIP, CAP, ETC.) AT ALL WOOD TO CONCRETE, WOOD TO STEEL AND WOOD TO WOOD CONNECTIONS.
- ATTACH BRICK VENEERS TO FRAMING PER IRC 703.8.
- PROVIDE 6" X 1 1/2" X 5/16" STEEL ANGLE TO SUPPORT BRICK VENEERS. ATTACH ANGLE WITH (2) 7/16" X 4" LAGS AT 16" O.C., USE (1) 3/4" X 4" X 1/2" TITEN HD BOLT AT 16" O.C. FOR ATTACHMENT TO CONCRETE OR MASONRY.
- WOOD NAILERS ON STEEL BEAMS SHALL BE 2X WITH 3/4" DIAM. THREADED STUDS AT 32" O.C. U.N.O., SEE PLAN. NAILERS ON STEEL FRAME BEAMS SHALL BE 3X WITH 3/4" DIAM. STUDS AT 24" O.C. U.N.O., SEE PLAN.
- 3/4" X 2" WEB STIFFENERS SHALL BE PROVIDED EACH SIDE OF STEEL BEAMS AT ALL BEARING POINTS.
- USE 3/4" DIAM. A325 BOLTS AT ALL STEEL TO STEEL CONNECTIONS U.N.O., SEE PLAN.
- GROUT BELOW STEEL BASE PLATES (IF USED) SHALL BE 5000 PSI NON-SHRINK GROUT.
- ALL WELDING SHALL BE DONE PER AWS AND AWS SPECIFICATIONS. WELDERS SHALL BE AWS CERTIFIED.
- WELD MATERIAL SHALL BE 70 KSI MIN.
- RIM BOARD TO BE 1 1/8" MIN. U.N.O., SEE PLAN.
- YORK ENGINEERING LIABILITY IS LIMITED TO FIVE TIMES THE FEE COLLECTED FOR SERVICES. THE CONTRACTOR(S) MUST READ, UNDERSTAND AND ACCEPT ALL YORK ENGINEERING DOCUMENTS APPLICABLE TO THIS DESIGN PRIOR TO UTILIZING THE DESIGN. BY USING THIS DESIGN, THE OWNER/CONTRACTOR ACCEPTS THE DESIGN, ASSUMED LOADS AND LIMITS ON LIABILITY STATED.
- PERIODIC SPECIAL INSPECTIONS REQUIRED ON TRUSS BRACING AT TRUSSES OVER 5'-0" TALL UNLESS WAIVED BY BUILDING OFFICIAL.
- PRE-FABRICATED TRUSS LAYOUT PLAN AND CALCULATIONS SHALL BE PROVIDED TO YORK ENGINEERING FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

ALL DETAILS MAY NOT BE APPLICABLE TO YOUR PLANS IF MARKED TYPICAL, USE AT ALL APPLICABLE LOCATIONS

Engineer's Stamp:



York Engineering

Structural Design and Analysis
720 S. River Road, Suite D2000
St. George, Utah 84790
(801) 876-3501

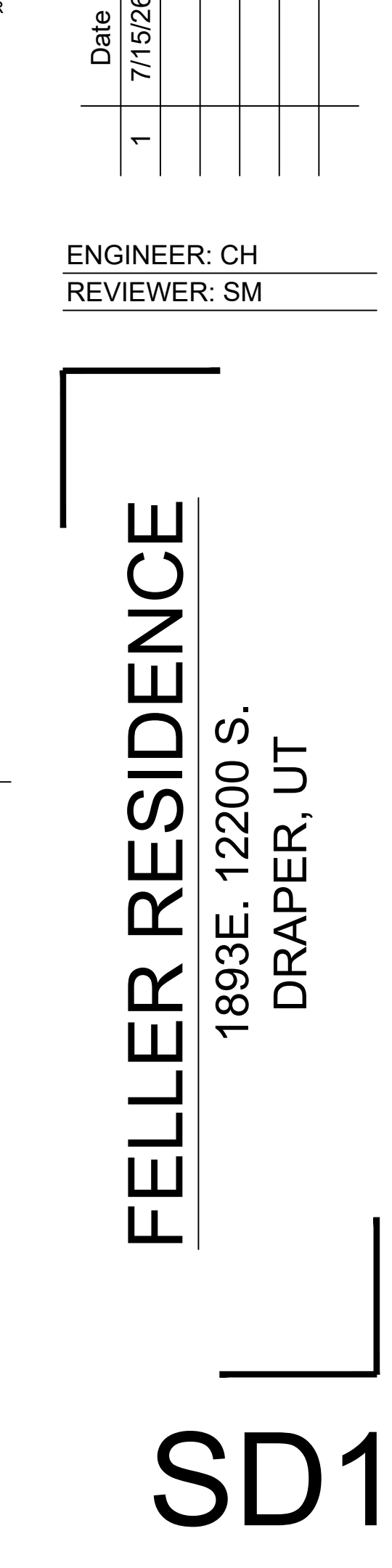
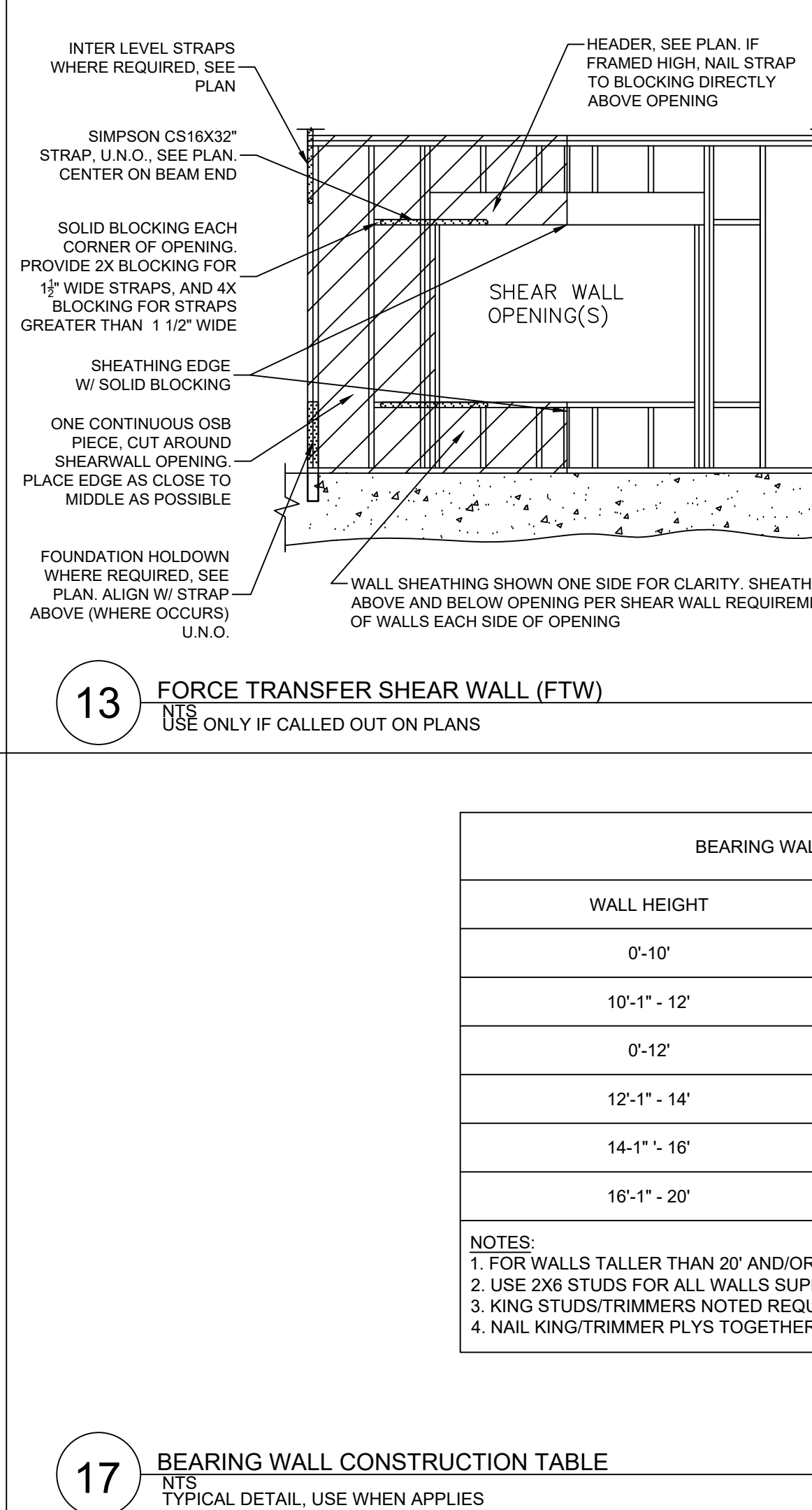
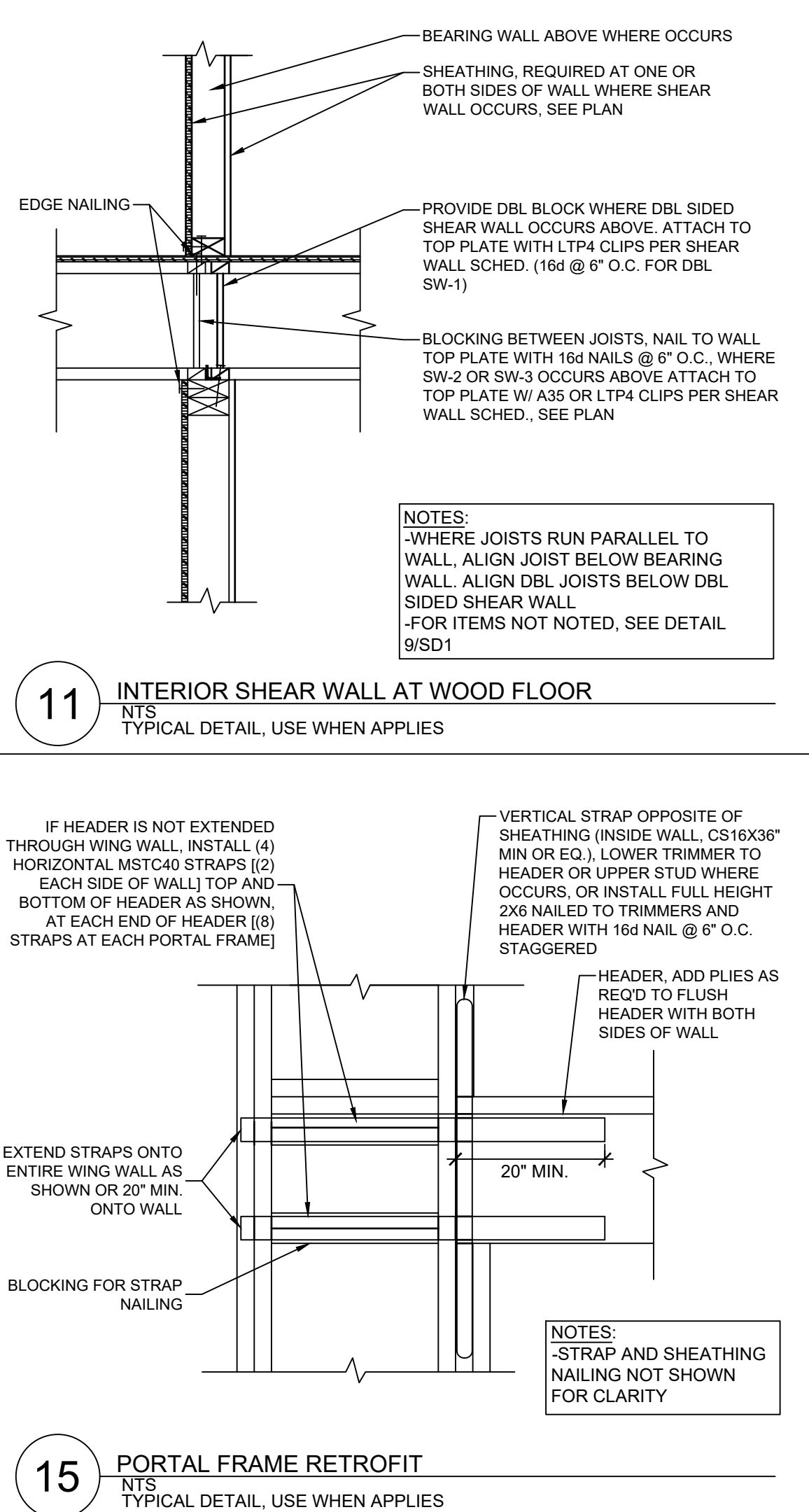
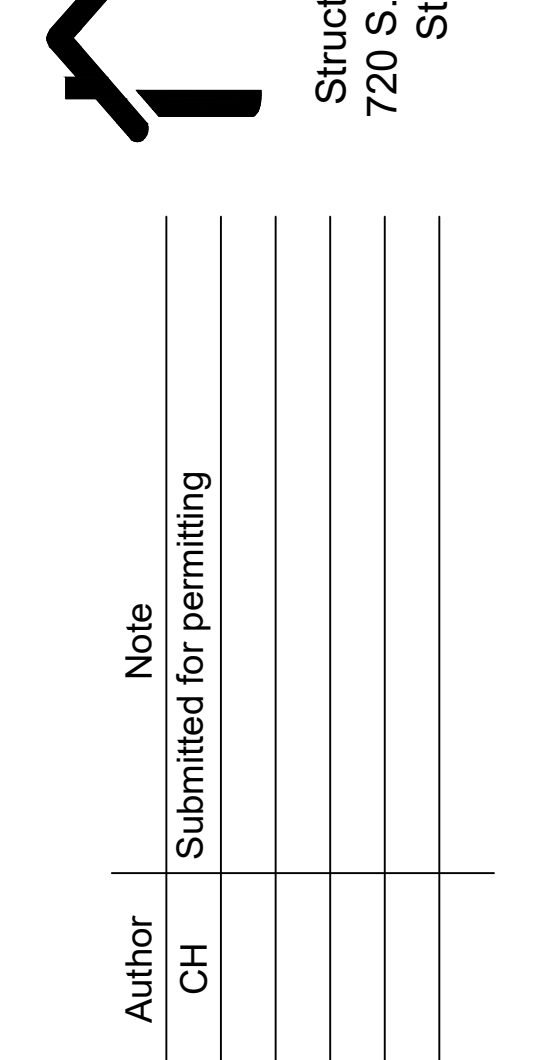
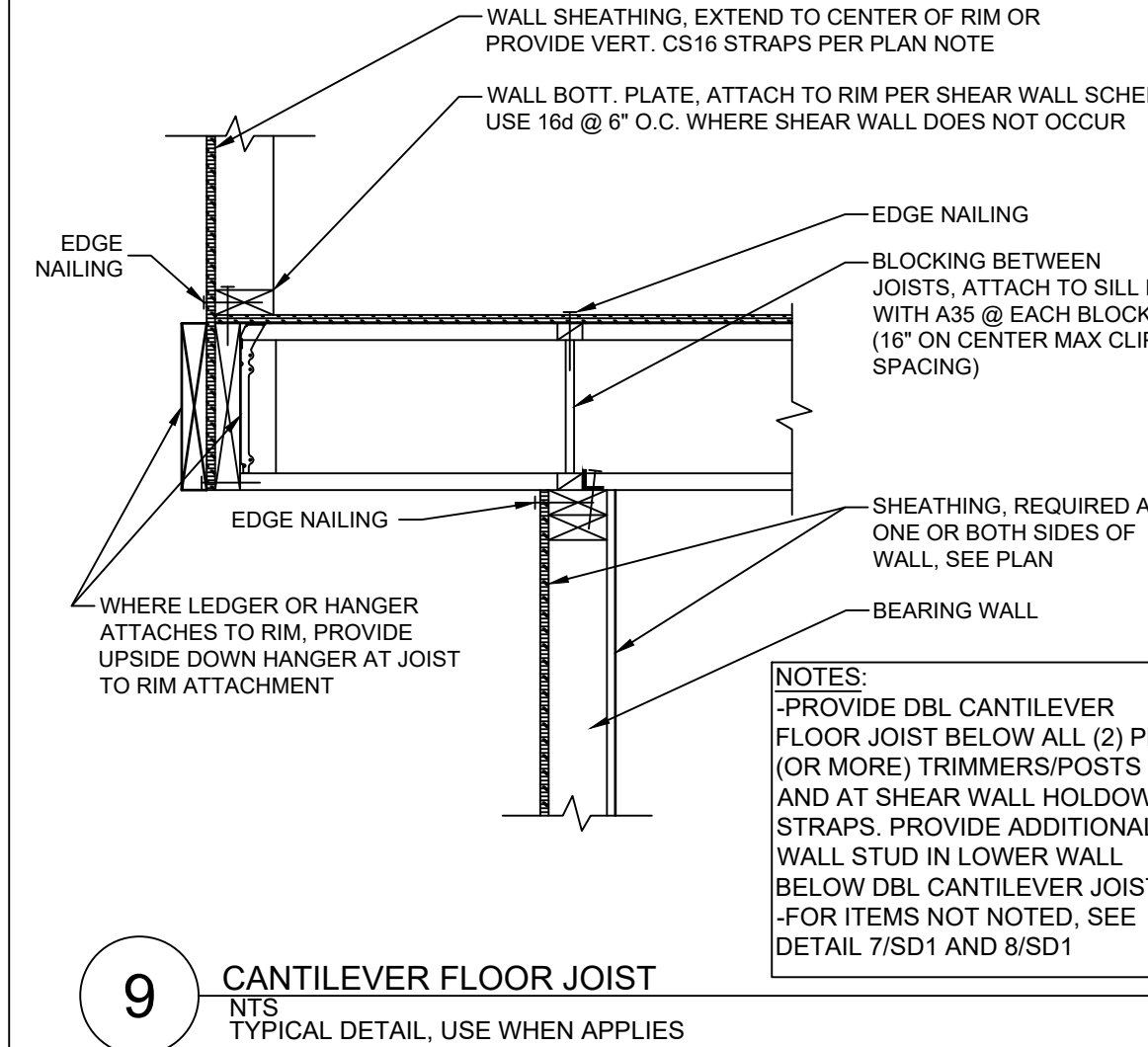
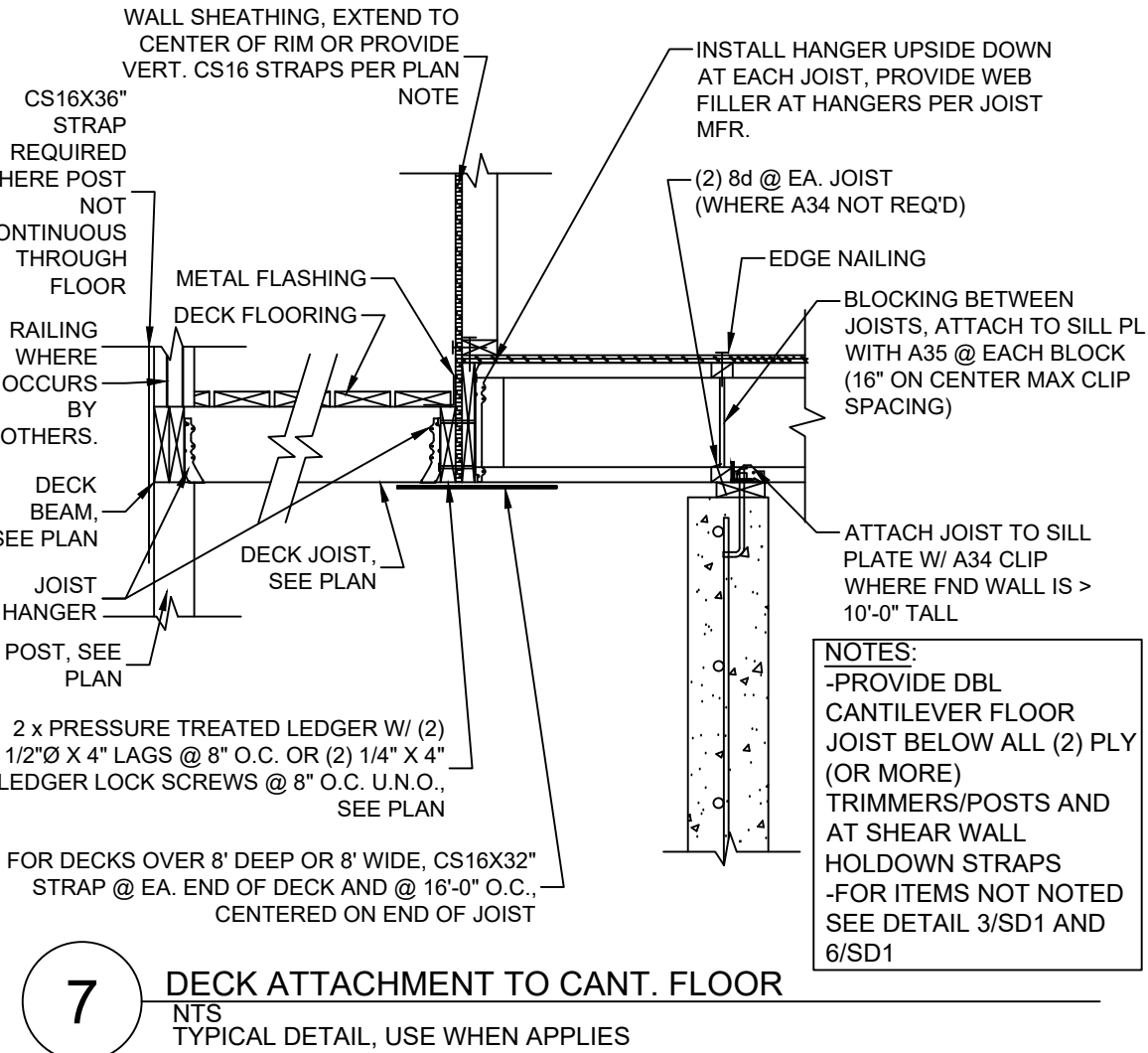
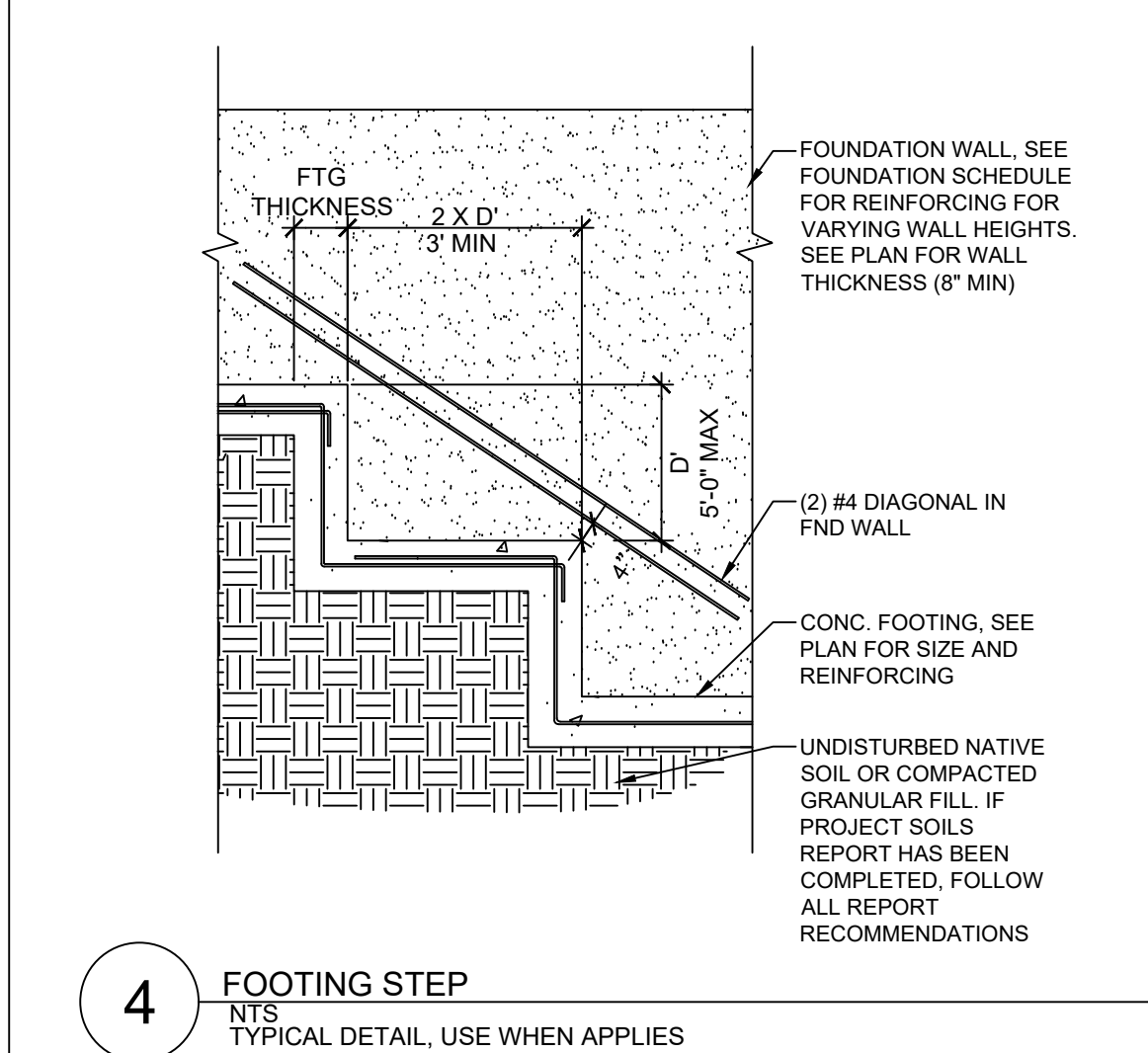
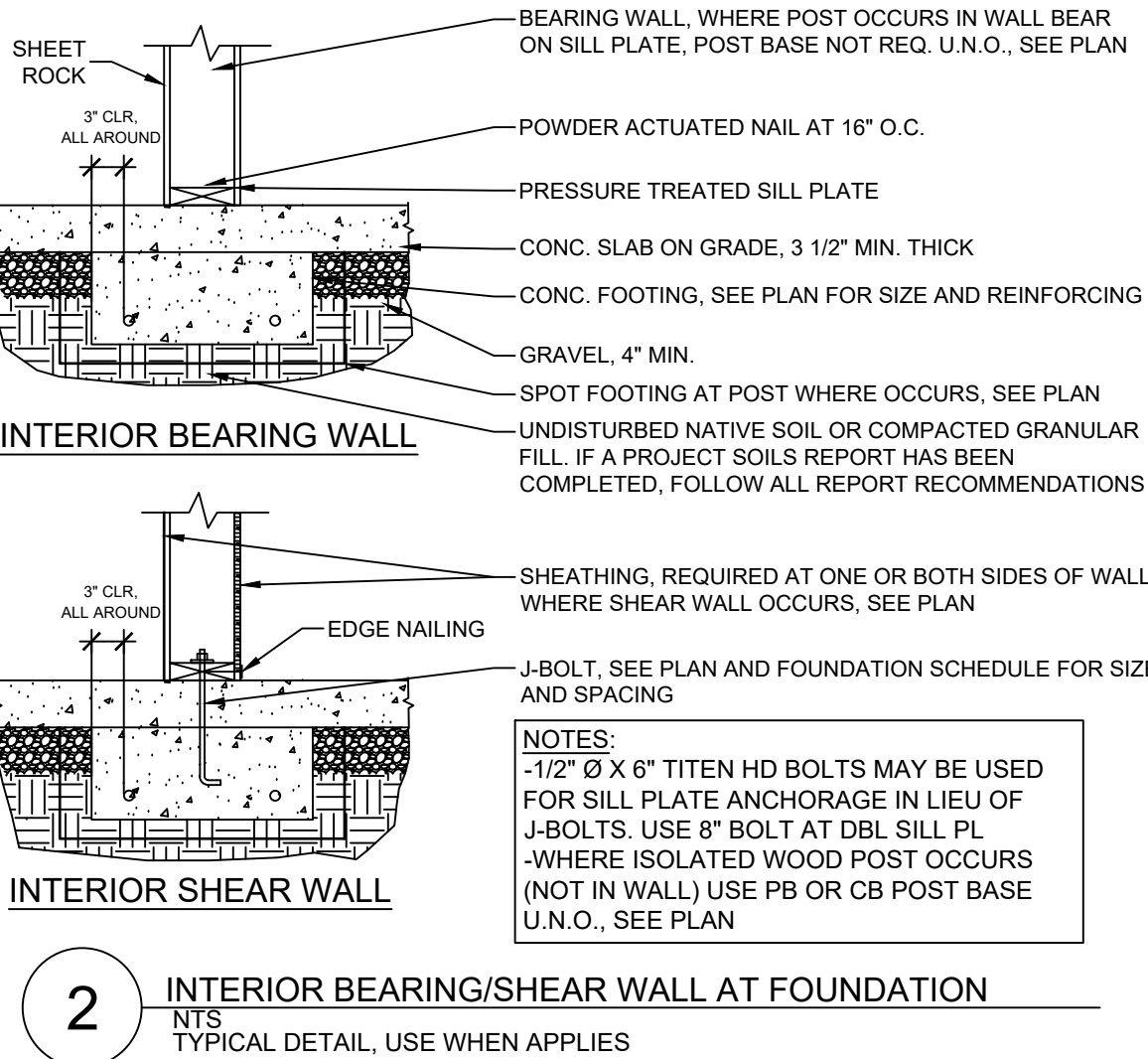
Note
Submitted for permitting
Author
CH
Date
7/15/26
1

ENGINEER: CH
REVIEWER: SM

FELLER RESIDENCE

1893E. 12200 S.
DRAPER, UT

SD2



WALL HEIGHT	STUD FRAMING
0'-0" - 10'	2X4's @ 16" O.C. ²
10'-1" - 12'	2X4's @ 12" O.C. ²
0'-12'	2X6's @ 16" O.C.
12'-1" - 14'	2X6's @ 16" O.C.
14'-1" - 16'	2X6's @ 12" O.C.
16'-1" - 20'	2X6's @ 8" O.C.

NOTES:

1. FOR WALLS TALLER THAN 20' AND/OR OPENINGS GREATER THAN 18' WIDE, SEE PLAN.
2. USE 2X6 STUDS FOR ALL WALLS SUPPORTING 3 OR MORE FLOOR/ROOF LOADS.
3. KING STUDS/TRIMMERS NOTED REQUIRED AT EACH END OF WALL OPENING.
4. NAIL KING/TRIMMER PLYS TOGETHER W/ (2) 16d NAILS @ 9" O.C.

ALL DETAILS MAY NOT BE APPLICABLE TO YOUR PLANS
IF MARKED TYPICAL, USE AT ALL APPLICABLE LOCATIONS