

SHEET INDEX

1. SITE PLAN
2. EXISTING & PROPOSED FLOOR PLAN
3. ROOF FRAMING & FOUNDATION PLANS
4. ELEVATIONS & SECTION
5. BASEMENT FLOOR

PROJECT DATA

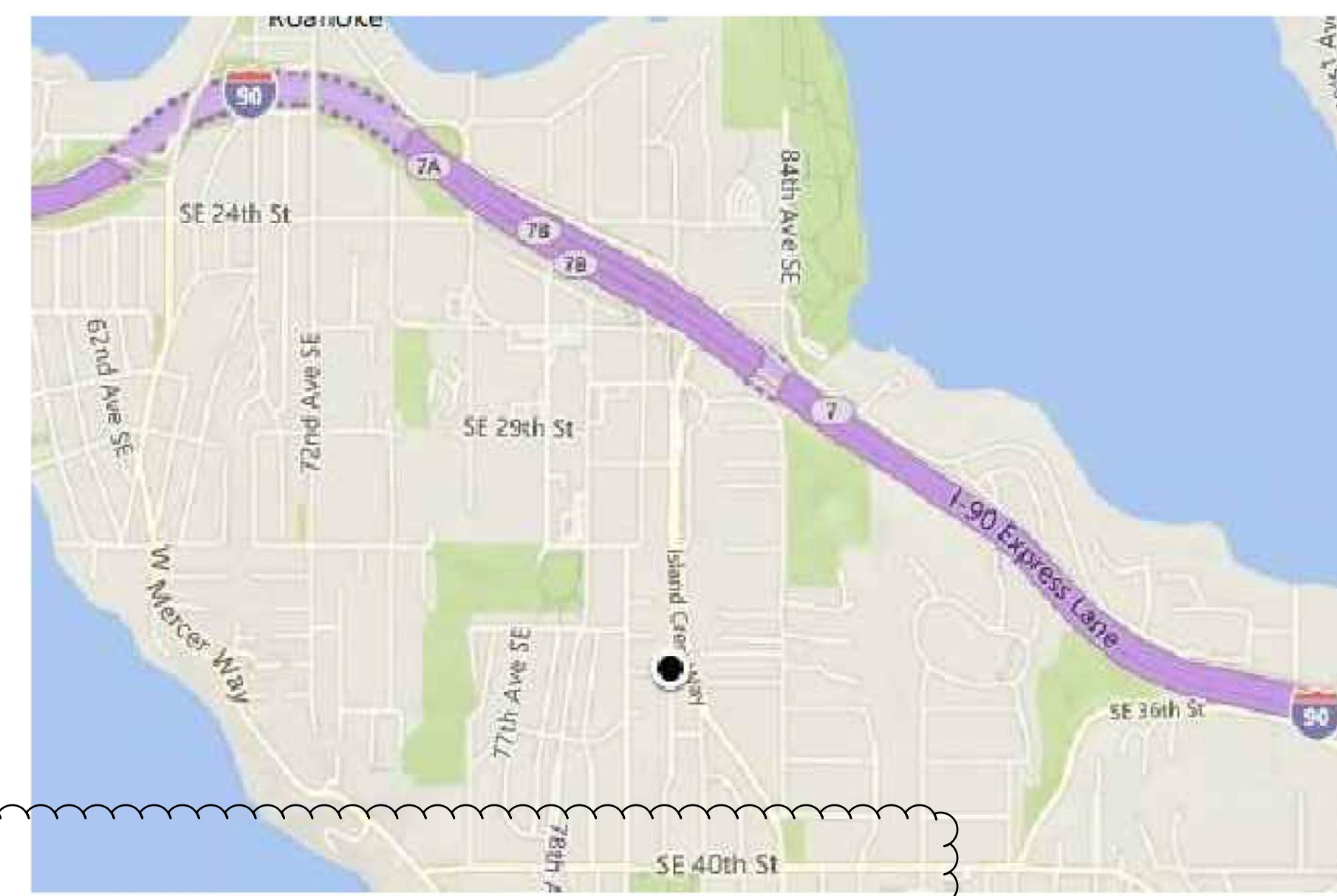
OWNER: CHEEMA ASEEM
 PROPERTY ADDRESS: 3606 81ST AVE SE,
 MERCER ISLAND, WA 98040
 LOT SIZE: 10,768 SQ FT. ACRES: 0.25
 PARCEL NUMBER: 445770-0070
 ZONING: R-9.6
 LEGAL DESCRIPTION: LUCAS HILL ADD
 PLAT BLOCK: 1 PLAT LOT: 7
 CONSTRUCTION TYPE: SINGLE FAMILY
 PROJECT TYPE: CARPORT/GARAGE CONVERSION

TOTAL SQ FT : EXISTING	
1ST FLOOR	1,540
FINISHED BASEMENT	460
TOTAL FINISHED AREA	2,000
TOTAL BASEMENT	1,250
BASEMENT GARAGE	340

Total Gross SQ FT: proposed	
1st Floor	1,540
Finished Basement	1,540
Total Finished Area	2,080
Garage	340
Total gross sqft:	2,420 sf
max gross floor area (PER 19.02.020.D): 40% OF LOT AREA: 10,768 x .4 = 4,307.2 SF	

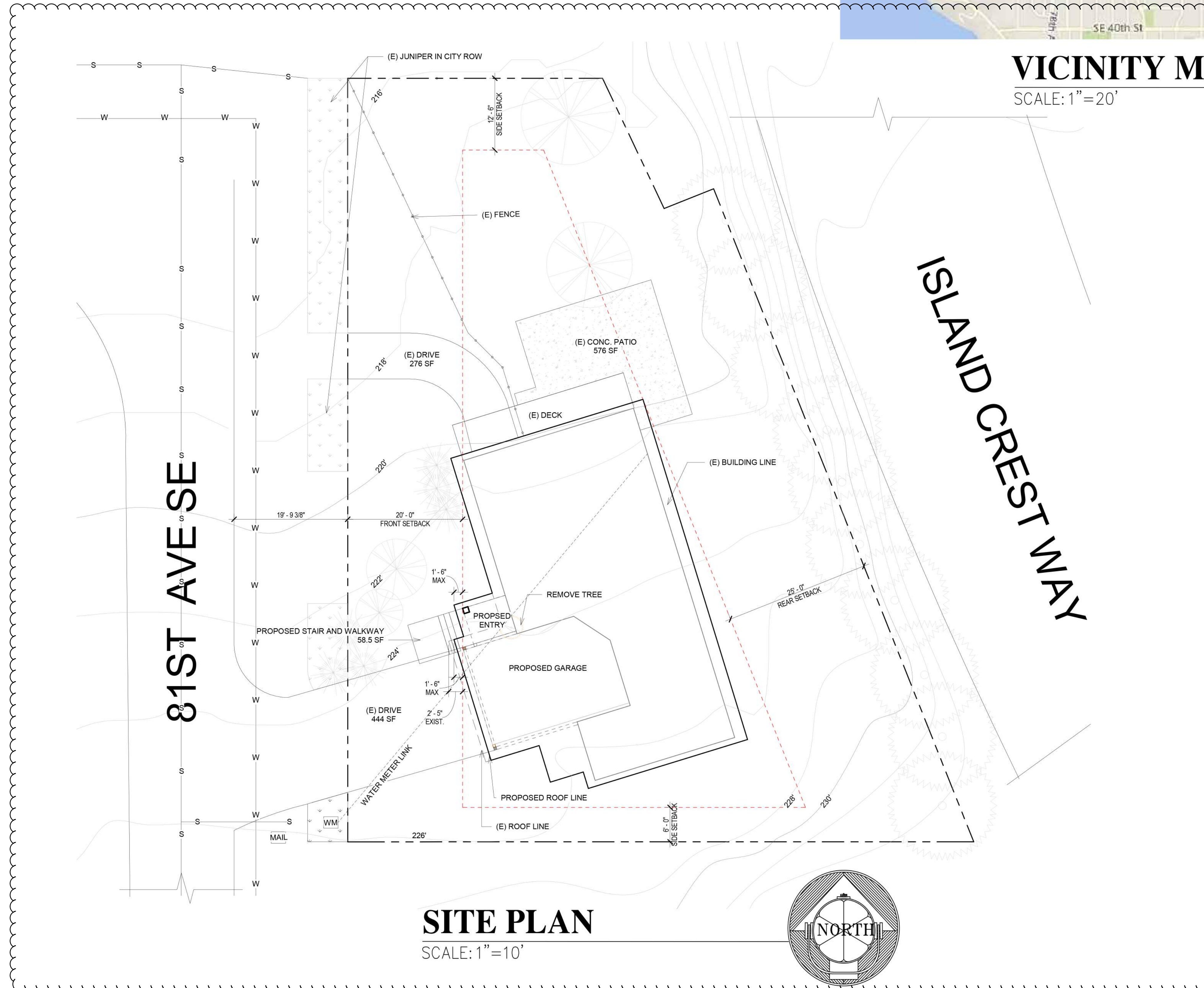
Setbacks (per 19.02.020.C):	
Front:	20'
Rear:	25'
Side:	17% of 109' = 18.5'- 6' = 12.5'

Energy credit:
EFFICIENT WATER HEATING 5a:
 All showerhead and kitchen sink faucets installed in the house shall be rated at 1.75 GPM or less. All other lavatory faucets shall be rated at 1.0 GPM or less.



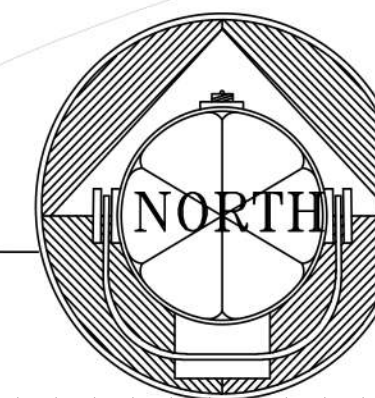
VICINITY MAP

SCALE: 1"=20'



SITE PLAN

SCALE: 1"=10'



CHEEMA RES

3606 81ST AVE SE MERCER ISLAND 98040

SCALE: AS NOTED

DATE: 9/5/17

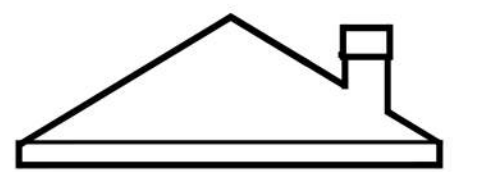
DRAWN BY: D.C

CHECKED BY: D.C

PROJECT NO. A-82317

DC-DESIGNS

DOUGLAS CROWELL DESIGN
 544 ESTATE PLACE
 TIRCREST, WA 98466



TEL: 253 363-0030
 EMAIL: crowell.douglas@yahoo.com

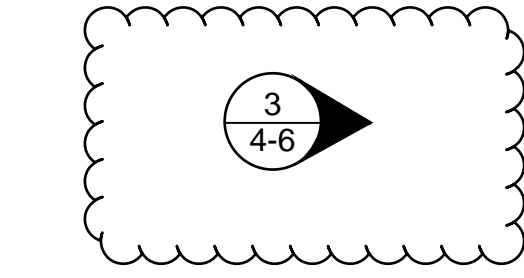
SHEET NO:

1
 OF: 5

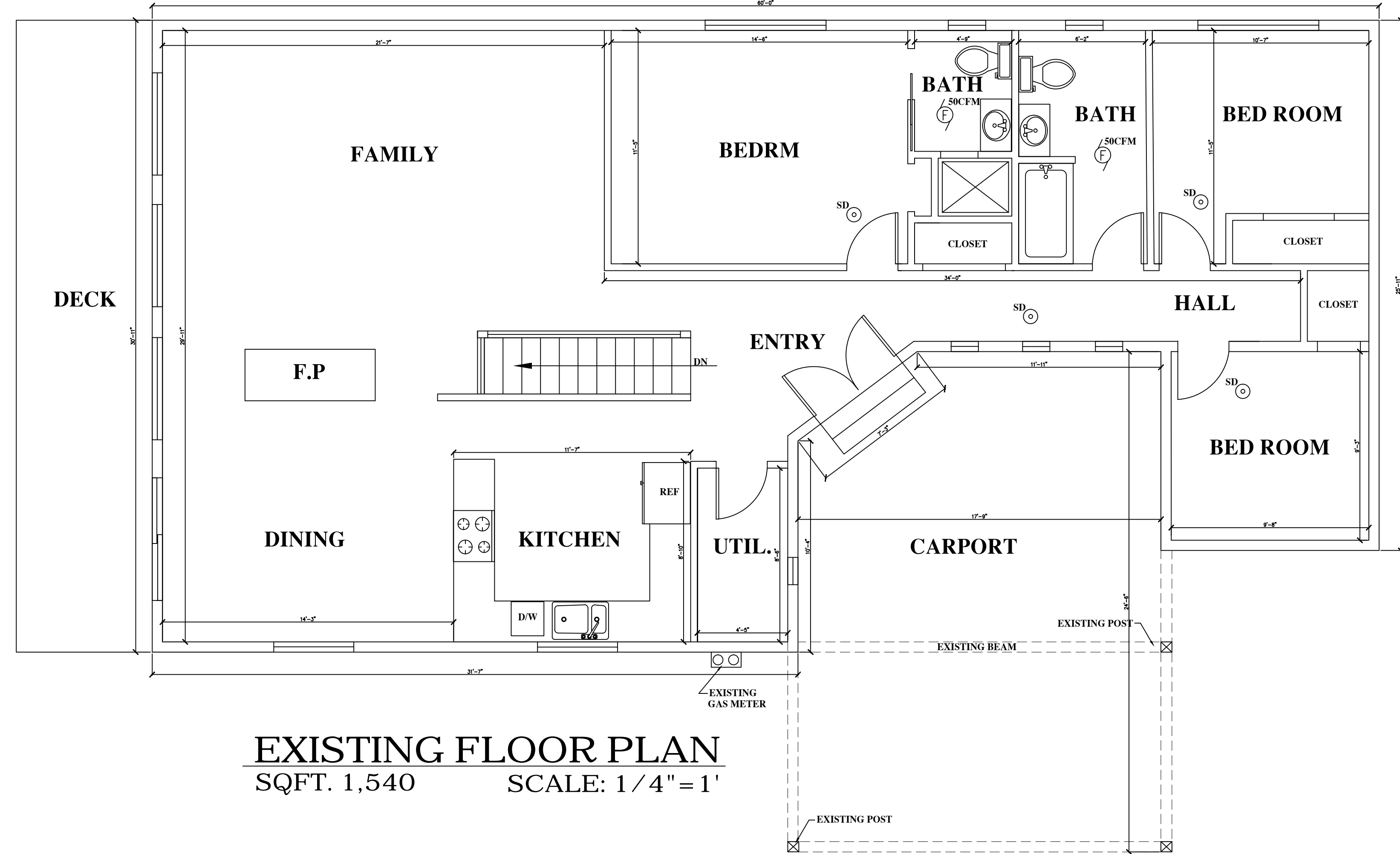
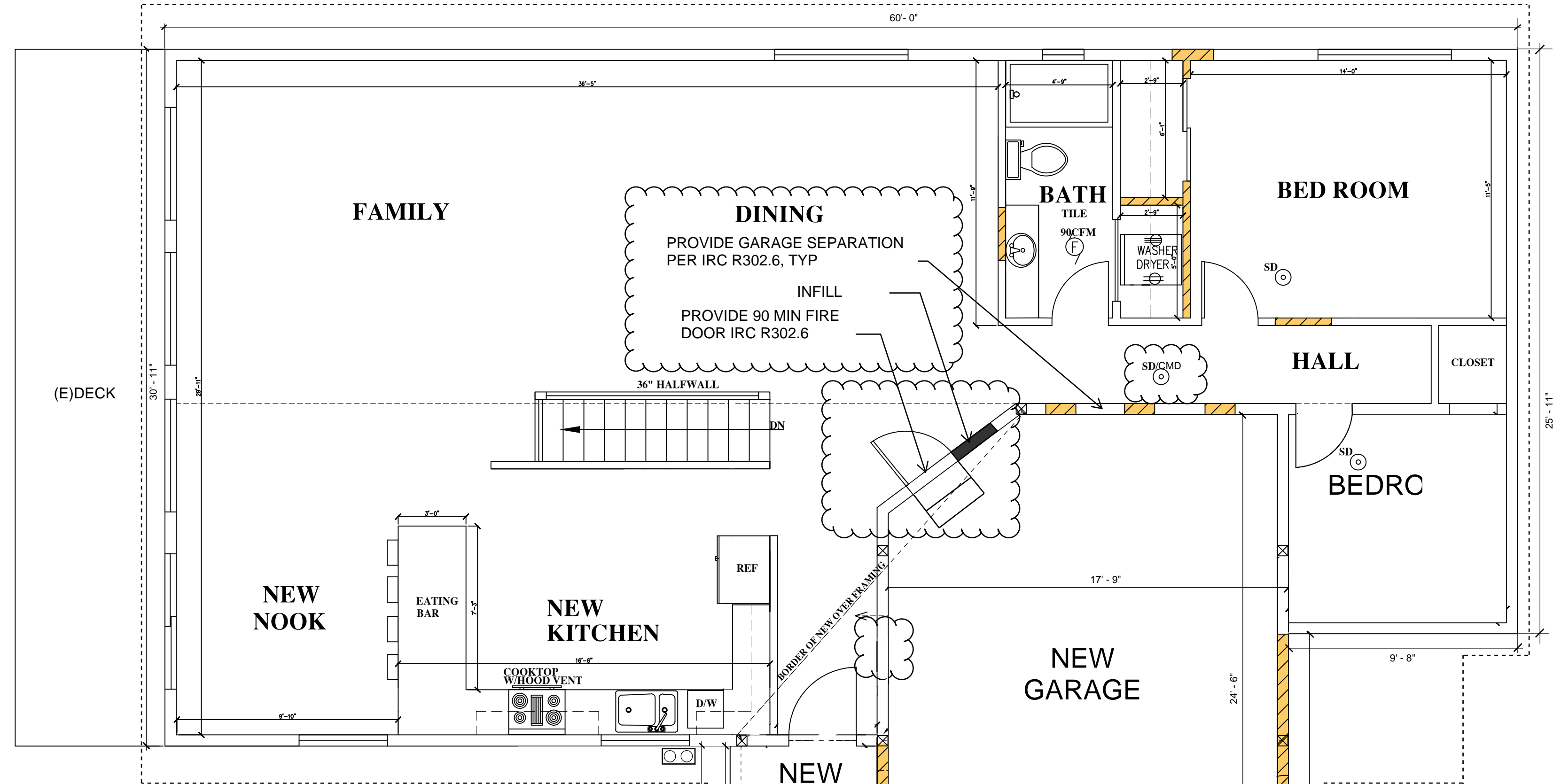
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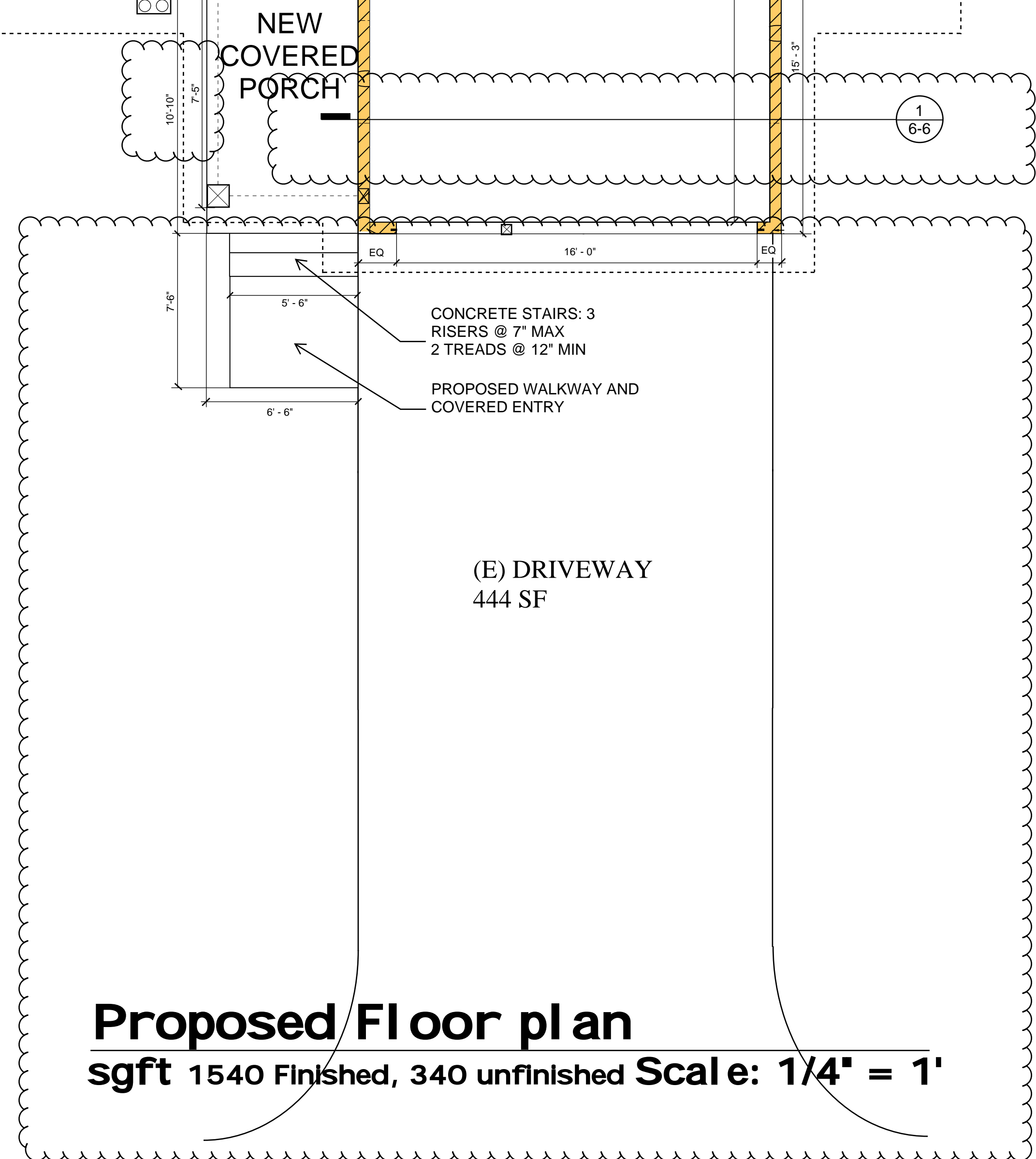
NOTE: existing appliances are direct vented to the exterior for both exhaust and combustion air.



NEW
EXISTING



EXISTING FLOOR PLAN
 SQFT. 1,540 SCALE: 1/4" = 1'



Proposed Floor plan
 sgft 1540 Finished, 340 unfinished Scale: 1/4" = 1'

REVISIONS:

CHEEM RES

3606 81ST AVE SE MERCER ISLAND 98040

SCALE: **AS NOTED**

DATE: **5/10/18**

DRAWN BY: **D.C**

CHECKED BY: **D.C**

PROJECT NO. **A-82317**

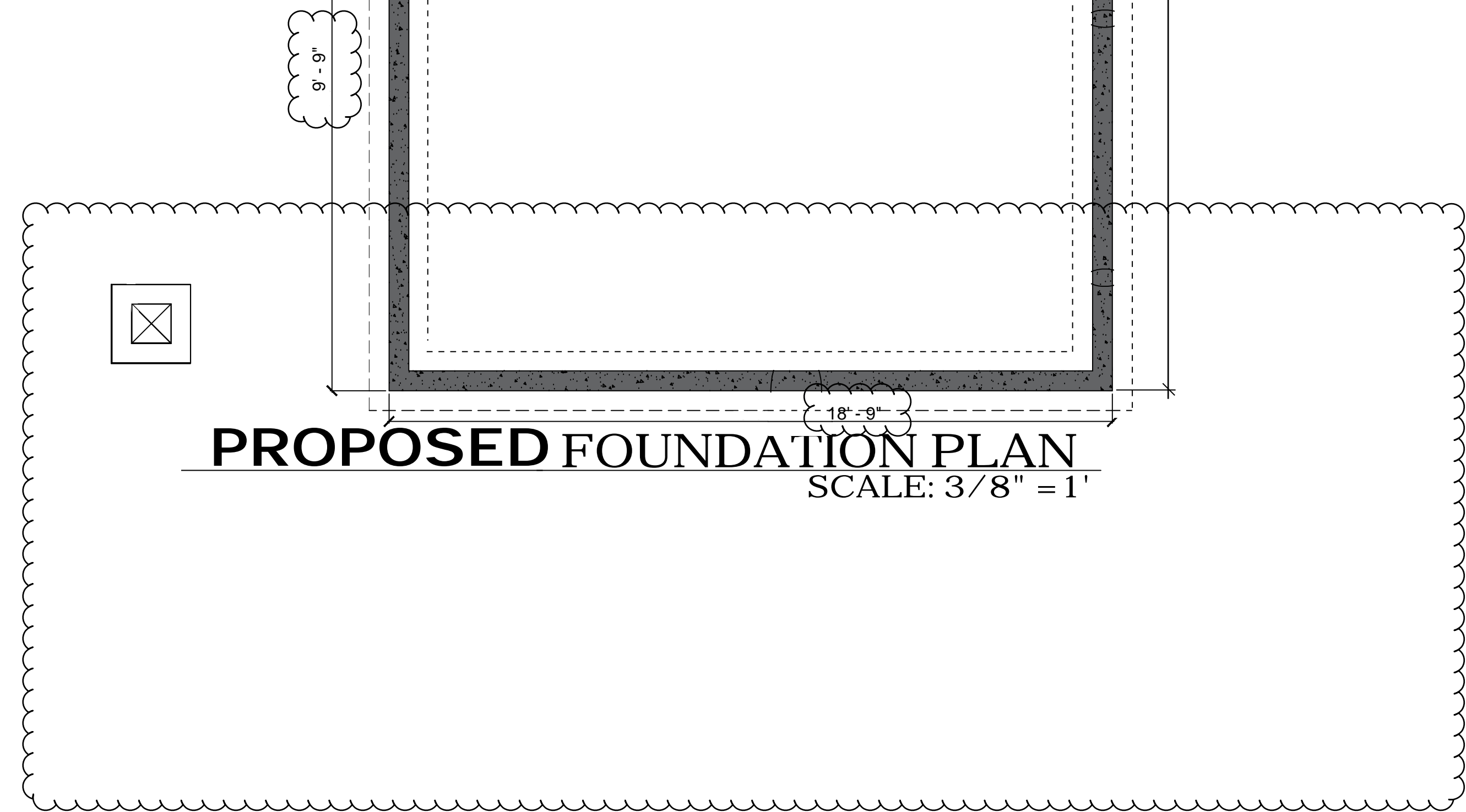
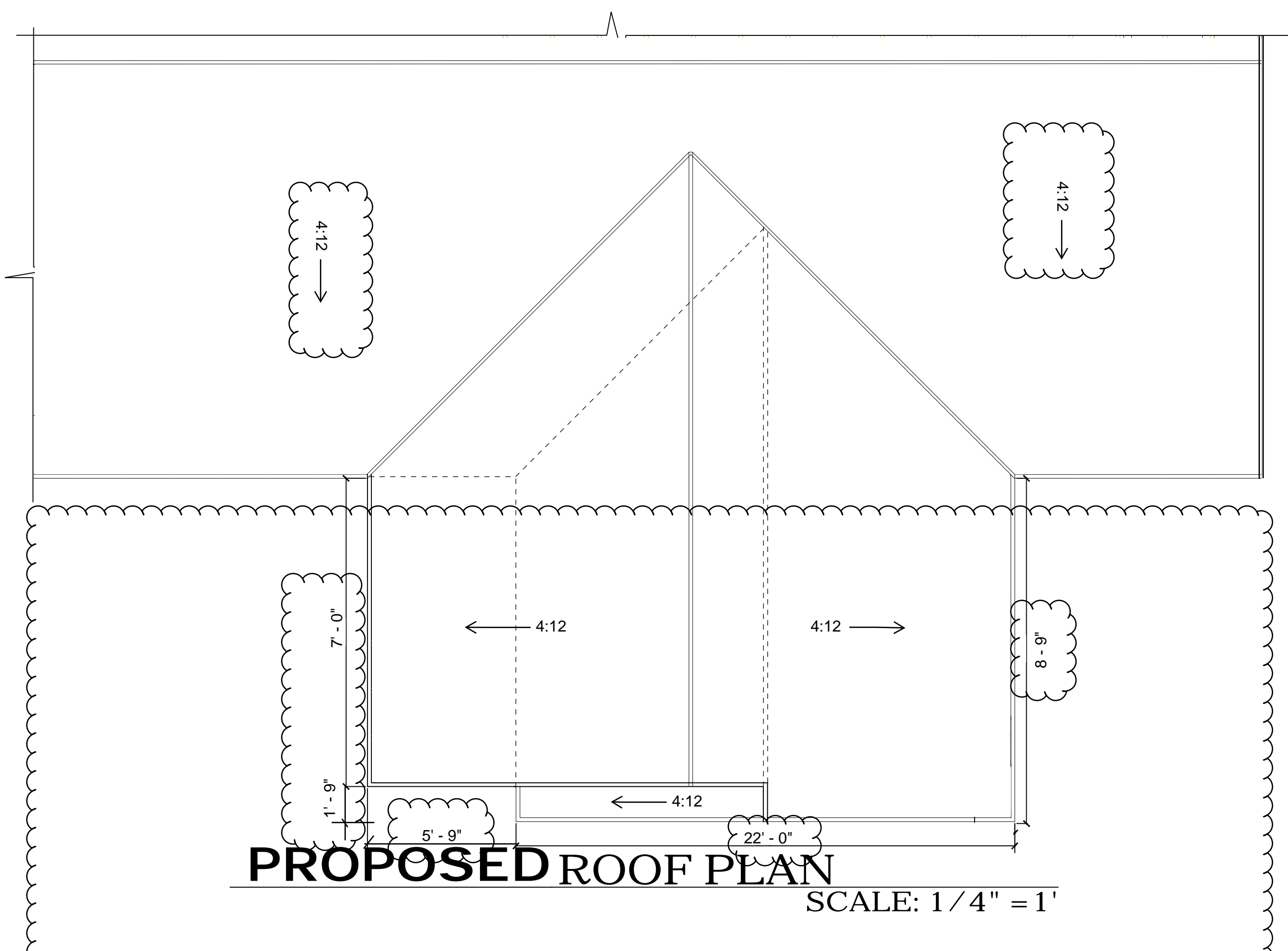
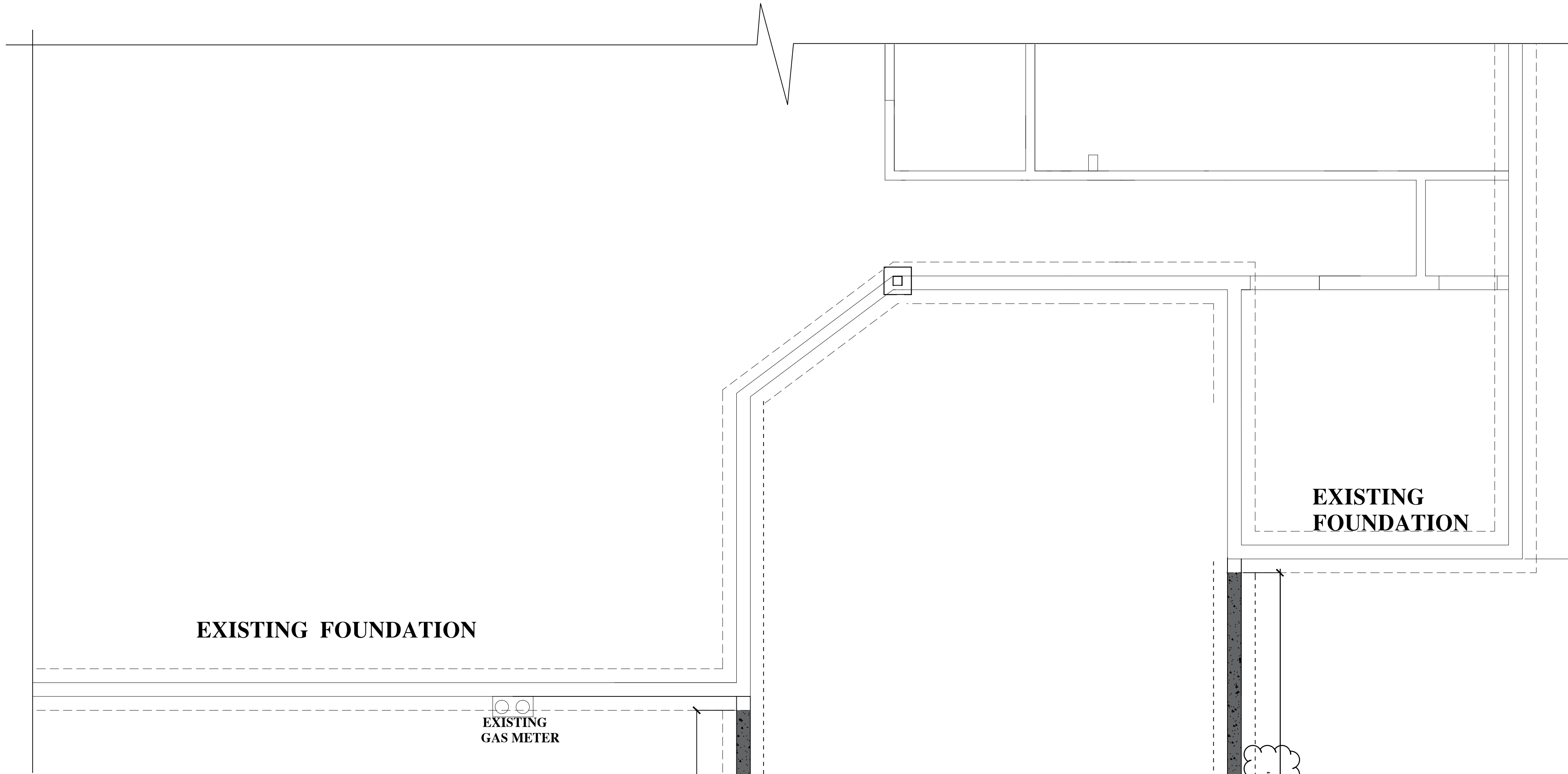
DC-DESIGNS
 DOUGLAS CROWELL DESIGN
 1544 ESTATE PLACE
 FIRCREST, WA 98466

TEL: 253 363-0030
 EMAIL: crowell.douglas@yahoo.com

SHEET NO:
2
 OF:
6

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REVISIONS:

CHEEM RES

3606 81ST AVE SE MERCER ISLAND 98040

SCALE: AS NOTED

DATE: 4/20/18

DRAWN BY: D.C

CHECKED BY: D.C

PROJECT NO: A-82317

DC-DESIGNS

DOUGLAS CROWELL DESIGN
1544 ESTATE PLACE
FIRCREST, WA 98466

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SHEET NO: 3

OF: 6

SHEET INDEX

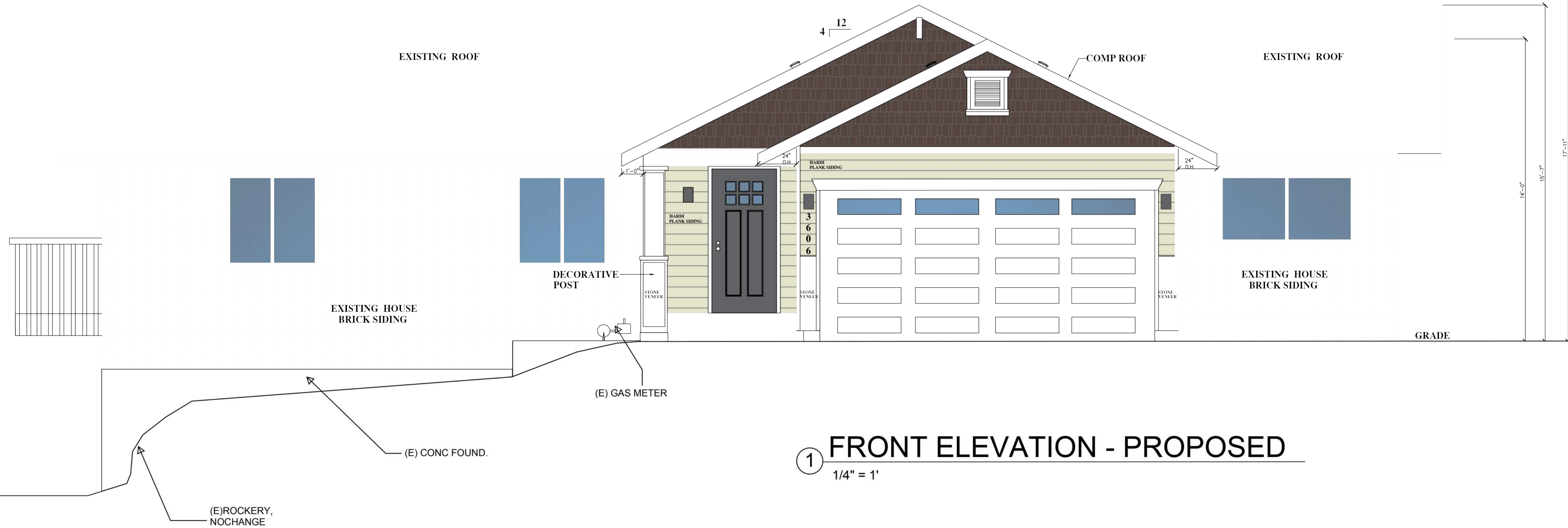
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② FRONT ELEVATION-EXISTING
NTS



③ SIDE ELEVATION - PROPOSED
1/4" = 1'



① FRONT ELEVATION - PROPOSED
1/4" = 1'

REVISIONS:

CHEEM RES

3606 81ST AVE SE MERCER ISLAND 98040

SCALE: AS NOTED

DATE: 4/20/18

DRAWN BY: D.C

CHECKED BY: D.C

PROJECT NO. A-82317

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1544 ESTATE PLACE
FIRCREST, WA 98466

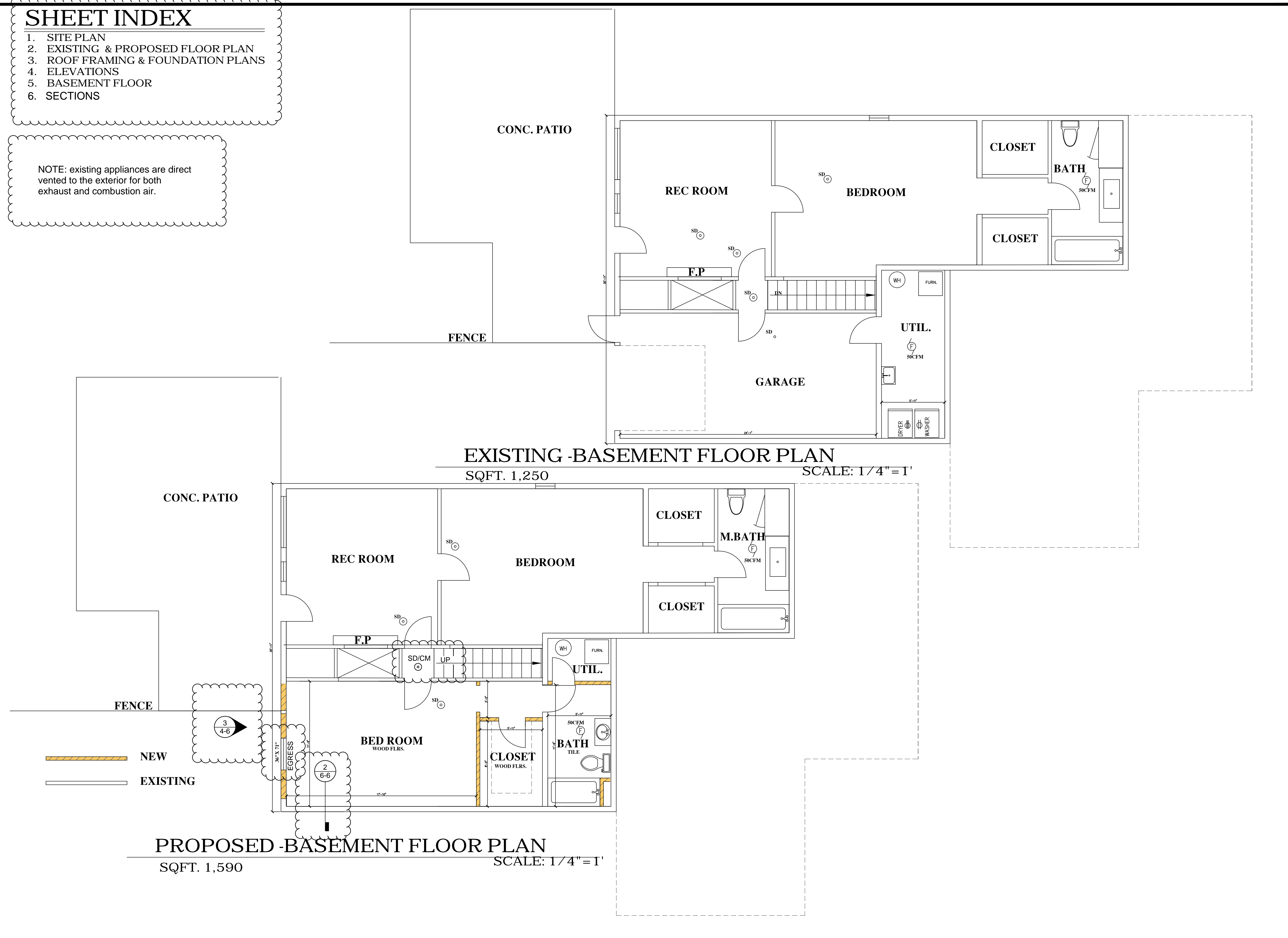
TEL: 253 363-0030
EMAIL: crowell.douglas@yahoo.com

SHEET NO:
4
6
OF:

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NOTE: existing appliances are direct vented to the exterior for both exhaust and combustion air.



EXISTING - BASEMENT FLOOR PLAN
SQFT. 1,250 SCALE: 1/4"=1'

PROPOSED - BASEMENT FLOOR PLAN
SQFT. 1,590 SCALE: 1/4"=1'

REVISIONS:

CHEEM RES

3606 81ST AVE SE MERCER ISLAND 98040

SCALE:	AS NOTED
DATE:	10/7/17
DRAWN BY:	D.C
CHECKED BY:	D.C
PROJECT NO.	A-82317

DC-DESIGNS
DOUGLAS CROWELL DESIGN
1544 ESTATE PLACE
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SHEET NO:
5
OF:
6

REVISIONS:

CHEEM RES

6606 81ST AVE SE MERCER ISLAND 98040

SCALE: AS NOTED

DATE: 9/5/17

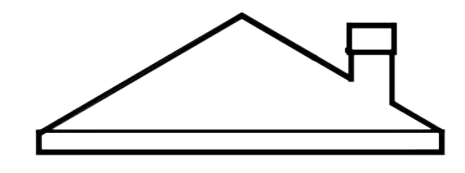
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PROJECT NO. A-82317

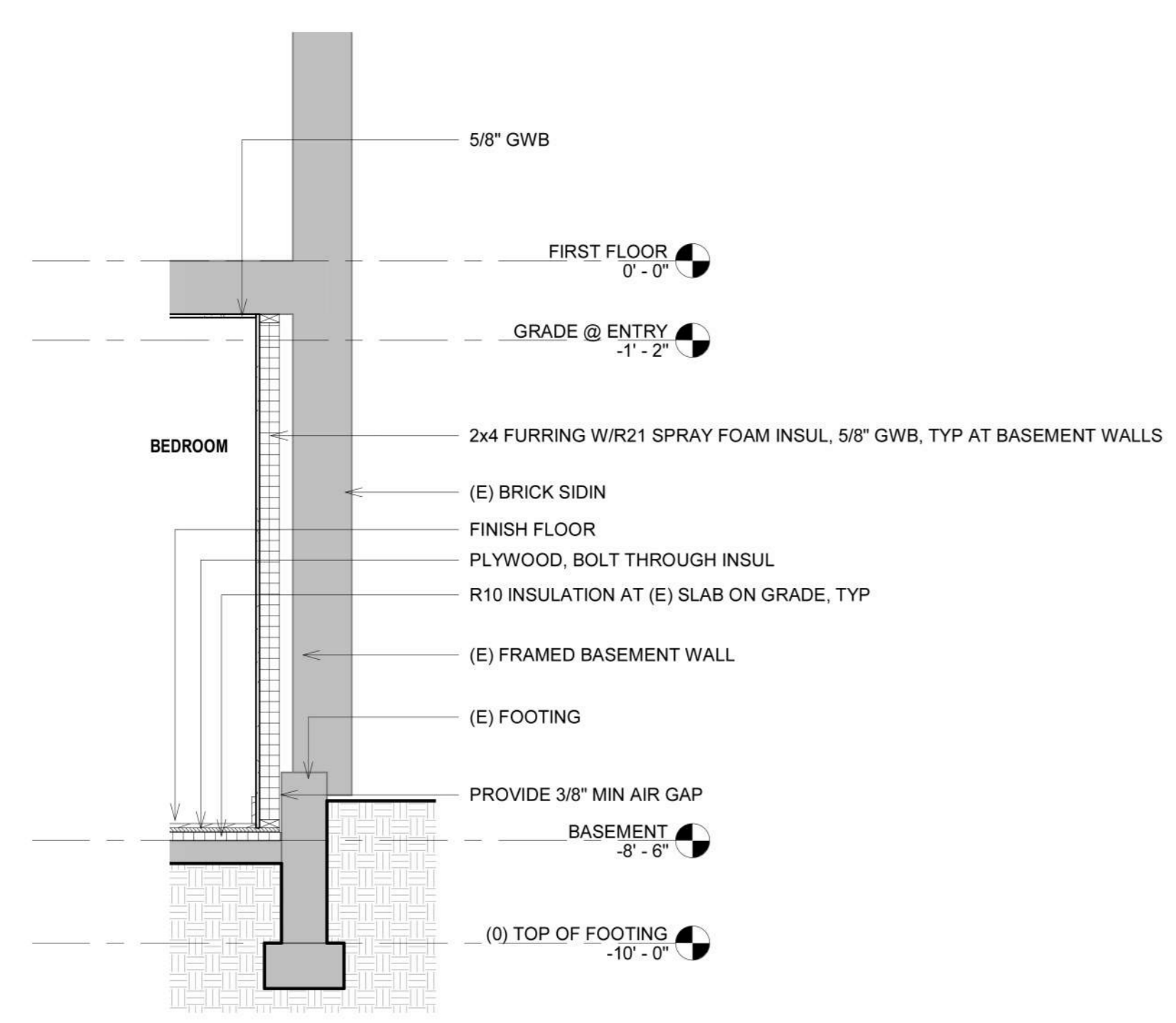
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DOUGLAS CROWELL DESIGN
544 ESTATE PLACE
FIRCREST, WA 98466

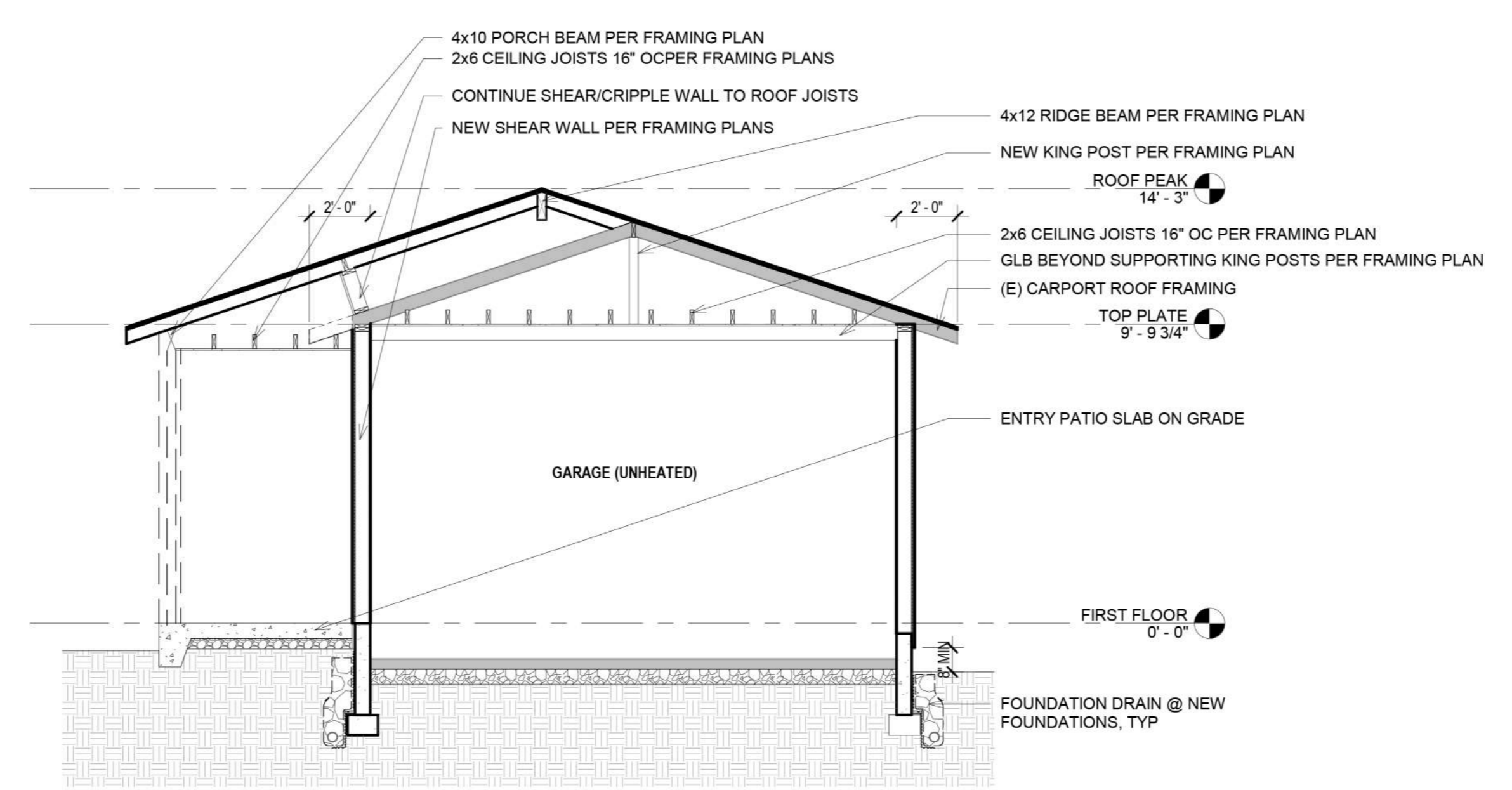


TEL: 253 363-0030
EMAIL: crowell.douglas@vahoo.com

SHEET NO: 6
OF: 6



2 WALL SECTION
1/2" = 1'



3 GARAGE SECTION
1/4" = 1'

SHEAR WALL SCHEDULE

TYPE	APA-RATED SHEATHING	MIN FRAMING AT ADJOINING PANEL EDGES	NAILING AT PANEL EDGES	RIM JOIST OR BLOCK CONN TO TOP PLATE	SILL PLATE NAILING TO RIM/BLKG BELOW	SILL PLATE ANCHOR BOLT TO SLAB OR FOUNDATION	FOUNDATION SILL PLATE SIZE	SHEAR CAPACITY (PLF)
SW6	15/32" ONE SIDE	2x STUD AND BLKG	0.131"Ø x 2 1/2" @ 6" OC	LTP4 OR A35 @ 26" OC	0.131"Ø x 3 1/4" @ 6.5" OC	5/8"Ø AB @ 5'-8" OC OR 1/2"Ø AB @ 3'-10" OC	2x	242

- NOTES:**
- REFER TO THE SHEAR WALL DETAIL IN THE TYPICAL WOOD FRAMING DETAILS.
 - THE VALUES IN THIS TABLE ARE BASED ON HF GRADE STUDS AND HF GRADE PLATES & RIM/BLOCKING.
 - NAILS AT ADJOINING PANEL EDGES SHALL BE STAGGERED EACH SIDE OF THE COMMON JOINT.
 - INTERMEDIATE FRAMING TO BE WITH 2x MINIMUM MEMBERS. FIELD NAILING 12" OC MAXIMUM.
 - AT ALL SILL PLATE ANCHOR BOLTS IN 2x6 WALLS, INSTALL 3 GA x 3" x 4 1/2" PLATE WASHERS WITH THE EDGE OF PLATE WASHER WITHIN 1/2" OF SHEATHED EDGE. FOR 2x4 STUD WALLS, INSTALL 3 GA x 3" x 3" PLATE WASHERS.
 - PROVIDE A MINIMUM OF 7" EMBEDMENT FOR AB INTO FOUNDATION OR STEM WALL.
 - 7/16" SHEATHING MAY BE USED IN PLACE OF 15/32" SHEATHING PROVIDED ALL STUDS ARE SPACED 16" OC OR PANELS ARE APPLIED WITH LONG DIMENSION ACROSS STUDS.

FOUNDATION PLAN NOTES:

- PLACE ALL REINFORCING STEEL, ANCHOR BOLTS, AND HOLD-DOWNS PER THE STRUCTURAL NOTES AND SCHEDULES ON THE S1 SHEETS AND THE FOUNDATION DETAILS ON THE S3 SHEETS. REFER TO THE FRAMING PLANS FOR LOCATION OF SHEAR WALLS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, WALL LOCATIONS, UTILITY PLACEMENT, AND CONCRETE ROUGH OPENINGS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION AND NOTIFY ALL PARTIES OF ANY DISCREPANCIES.
- EXTERIOR FOOTINGS SHALL BEAR ON FIRM NATIVE SOIL OR COMPACTED STRUCTURAL FILL A MINIMUM OF 1'-6" BELOW GRADE. REFER TO THE STRUCTURAL NOTES FOR ADDITIONAL SUBGRADE PREPARATION REQUIREMENTS AND FOR CONDITIONS REQUIRING STRUCTURAL FILL.
- SLAB ON GRADE SHALL BE A MINIMUM OF 4" THICK W/ 6x6 - W1.4xW1.4 WELDED WIRE FABRIC REINFORCING. PROVIDE 2" MINIMUM CLEARANCE FROM WWF TO BOTTOM OF SLAB. SLABS SHALL BE PLACED OVER A 10 MIL VAPOR BARRIER ATOP RIGID INSULATION PER ARCH OVER 4" OF SUITABLE DRAINING SUBGRADE MATERIAL.
- T.O. FTG AND T.O. WALL ELEVATIONS ARE FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING FINAL FOOTING ELEVATIONS BASED ON FIELD CONDITIONS & FOR COORDINATING TOW & TOF ELEV W/ ARCH DRAWINGS.
- CONTROL JOINTS ARE REQUIRED IN THE SLAB ON GRADE. REFER TO THE TYPICAL SLAB ON GRADE DETAILS FOR CONSTRUCTION REQUIREMENTS. ALL JOINT LOCATIONS SHALL BE APPROVED BY THE ENGINEER AND ARCHITECT PRIOR TO PLACING CONCRETE.
- ALL CONTINUOUS FOOTING REINFORCING SHALL BE PLACED THRU SPREAD FOOTINGS IF APPLICABLE. PROVIDE CORNER, HOOKED, OR BENT BARS MATCHING FOOTING REINFORCING AT ALL INTERSECTIONS AND CHANGES IN FOOTING DIRECTION.

FOUNDATION PLAN FLAG NOTES:

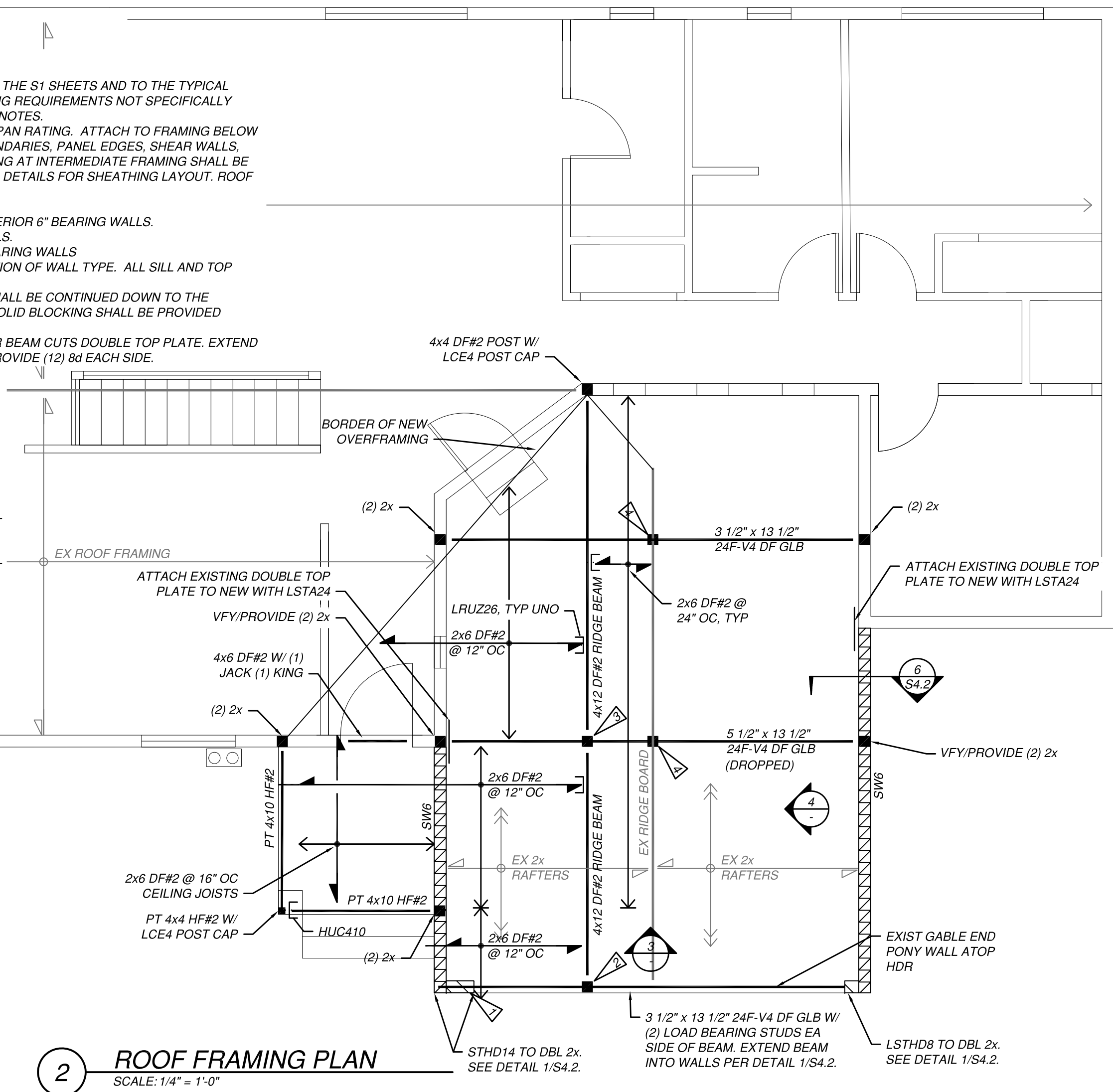
- DOWEL HORIZ REINF FROM FOOTINGS AND STEM WALLS 3" INTO EXISTING CONCRETE. USE HILTI HIT-RE500V3 EPOXY OR EQUAL

ROOF FRAMING PLAN NOTES:

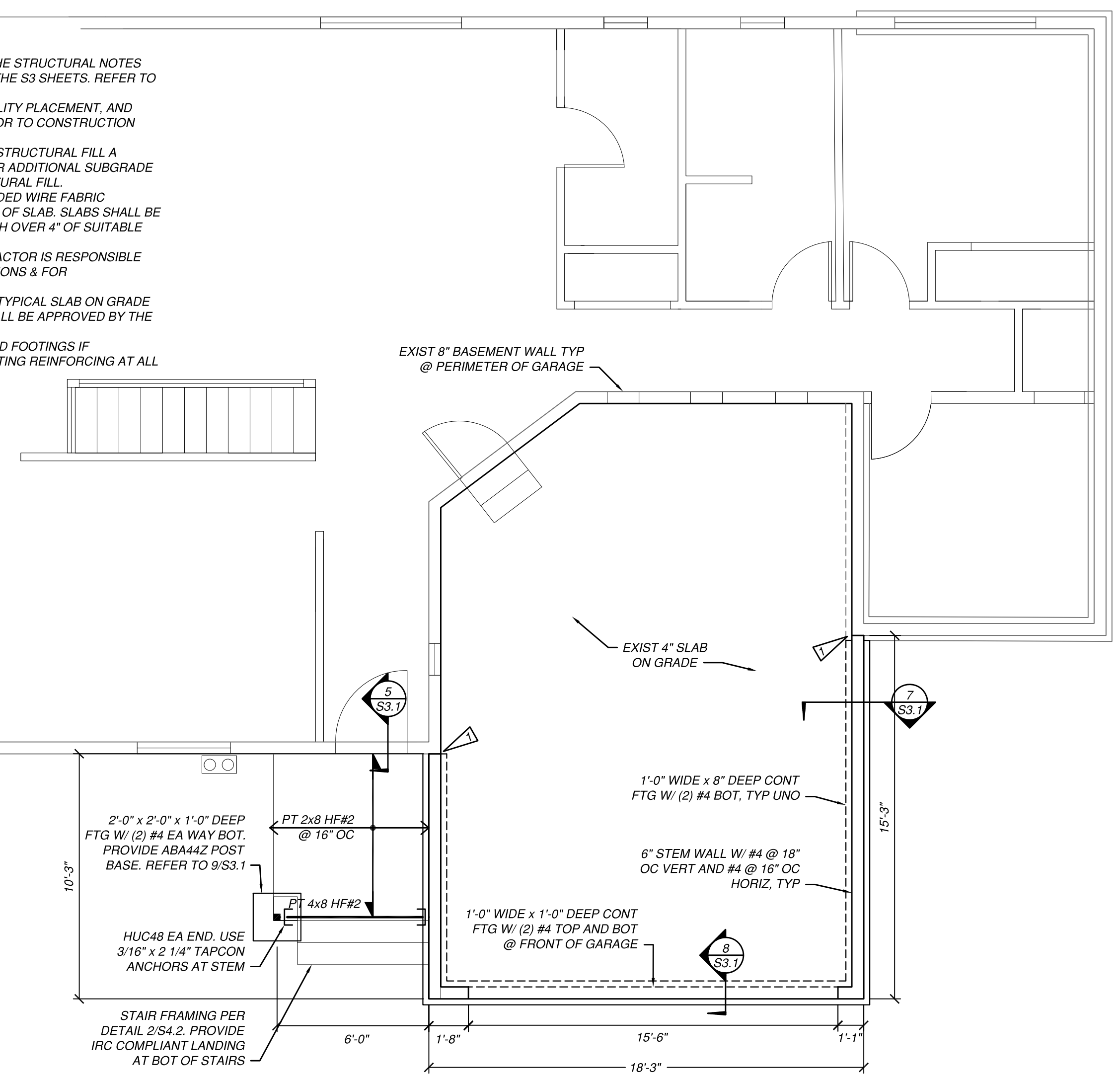
- REFER TO THE STRUCTURAL NOTES AND SCHEDULES ON THE S1 SHEETS AND TO THE TYPICAL WOOD FRAMING DETAILS ON THE S4 SHEETS FOR FRAMING REQUIREMENTS NOT SPECIFICALLY SHOWN ON THE ROOF FRAMING PLAN OR IN THESE PLAN NOTES.
- ROOF SHEATHING SHALL BE 1/2" MINIMUM WITH A 32/16 SPAN RATING. ATTACH TO FRAMING BELOW WITH 8d NAILS SPACED AT 6" OC AT ALL DIAPHRAGM BOUNDARIES, PANEL EDGES, SHEAR WALLS, AND COLLECTOR ELEMENTS INDICATED ON PLANS. NAILING AT INTERMEDIATE FRAMING SHALL BE 8d NAILS SPACED AT 12" OC. REFER TO TYPICAL FRAMING DETAILS FOR SHEATHING LAYOUT. ROOF SHEATHING IS UNBLOCKED UNO ON PLAN.
- WALL STUD FRAMING SHALL BE AS FOLLOWS:
 - 2x6 HF STUD @ 16" OC FOR EXTERIOR WALLS AND INTERIOR 6" BEARING WALLS.
 - 2x4 HF STUD @ 16" OC FOR INTERIOR 4" BEARING WALLS.
 - 2x4 OR 2x6 HF STUDS @ 16" OC FOR INTERIOR NON-BEARING WALLS
 REFER TO ARCHITECTURAL DRAWINGS FOR DETERMINATION OF WALL TYPE. ALL SILL AND TOP PLATES SHALL BE HF STUD GRADE.
- ALL COLUMNS, TRIMMER STUDS, AND BEARING WALLS SHALL BE CONTINUED DOWN TO THE FOUNDATION UNLESS SUPPORTED BY A BEAM BELOW. SOLID BLOCKING SHALL BE PROVIDED WITHIN JOIST SPACES AT THESE LOCATIONS.
- PROVIDE CS16 STRAP AT LOCATIONS WHERE COLUMN OR BEAM CUTS DOUBLE TOP PLATE. EXTEND STRAP 1'-0" BEYOND THE CUT IN EACH DIRECTION AND PROVIDE (12) 8d EACH SIDE.

ROOF FRAMING PLAN FLAG NOTES:

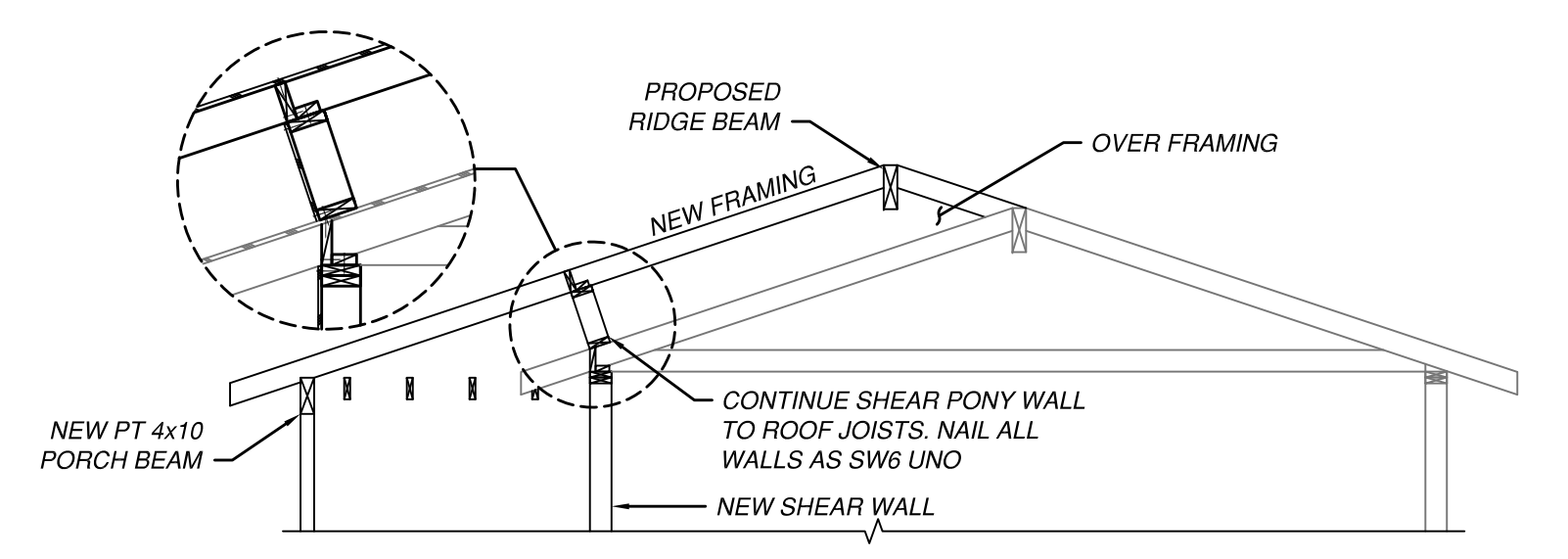
- APA RATED PORTAL FRAME, 20" MIN LENGTH. REFER TO DETAIL 1/S4.2. USE STHD14 EA SIDE OF PORTAL FRAME
- 4x4 DF#2 KING POST W/ LCE4 POST CAP AND AC4 POST BASE AT GLB BELOW
- 4x6 DF#2 KING POST W/ AC4 POST CAP AND AC4 POST BASE AT GLB BELOW
- 4x4 DF#2 KING POST W/ AC4 POST CAP AND AC4 POST BASE AT GLB BELOW. ADD 2x FILLER @ RIDGE BOARD



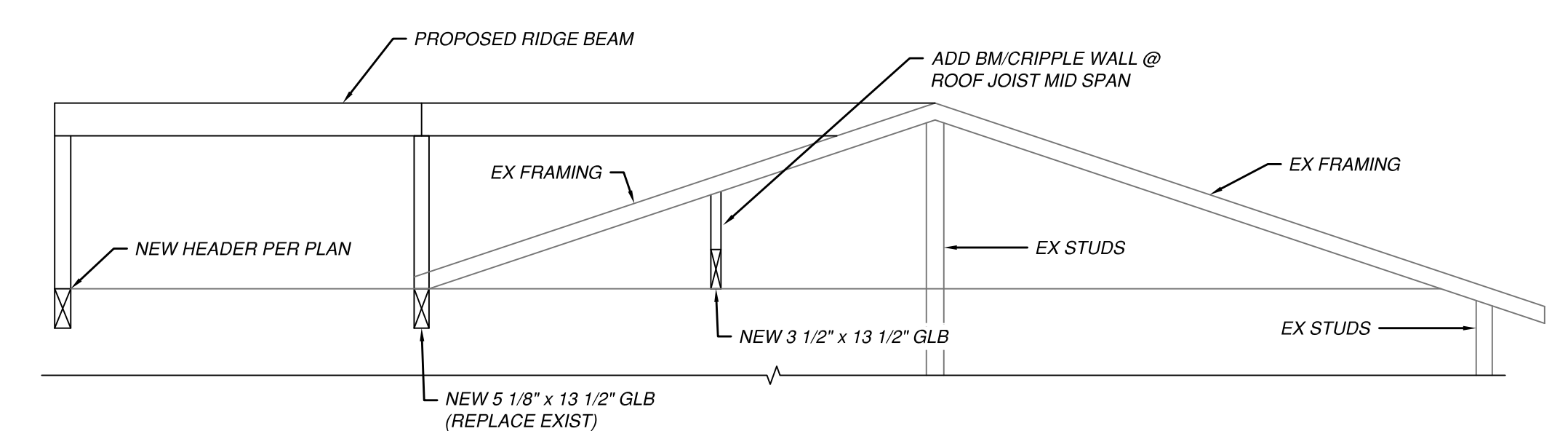
2 ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"



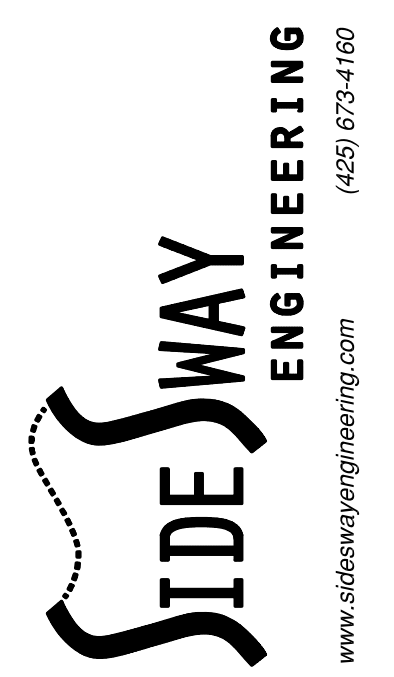
1 FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



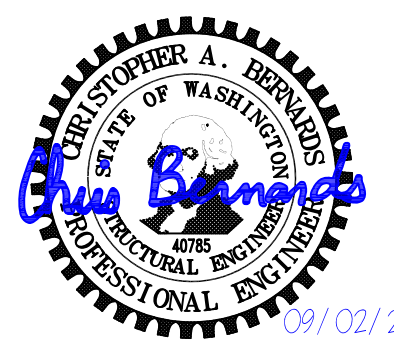
3 FRONT SECTION
SCALE: 1/4" = 1'-0"



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



CHEEMA RESIDENCE
3606 81ST AVENUE SE
MERCER ISLAND, WA 98040

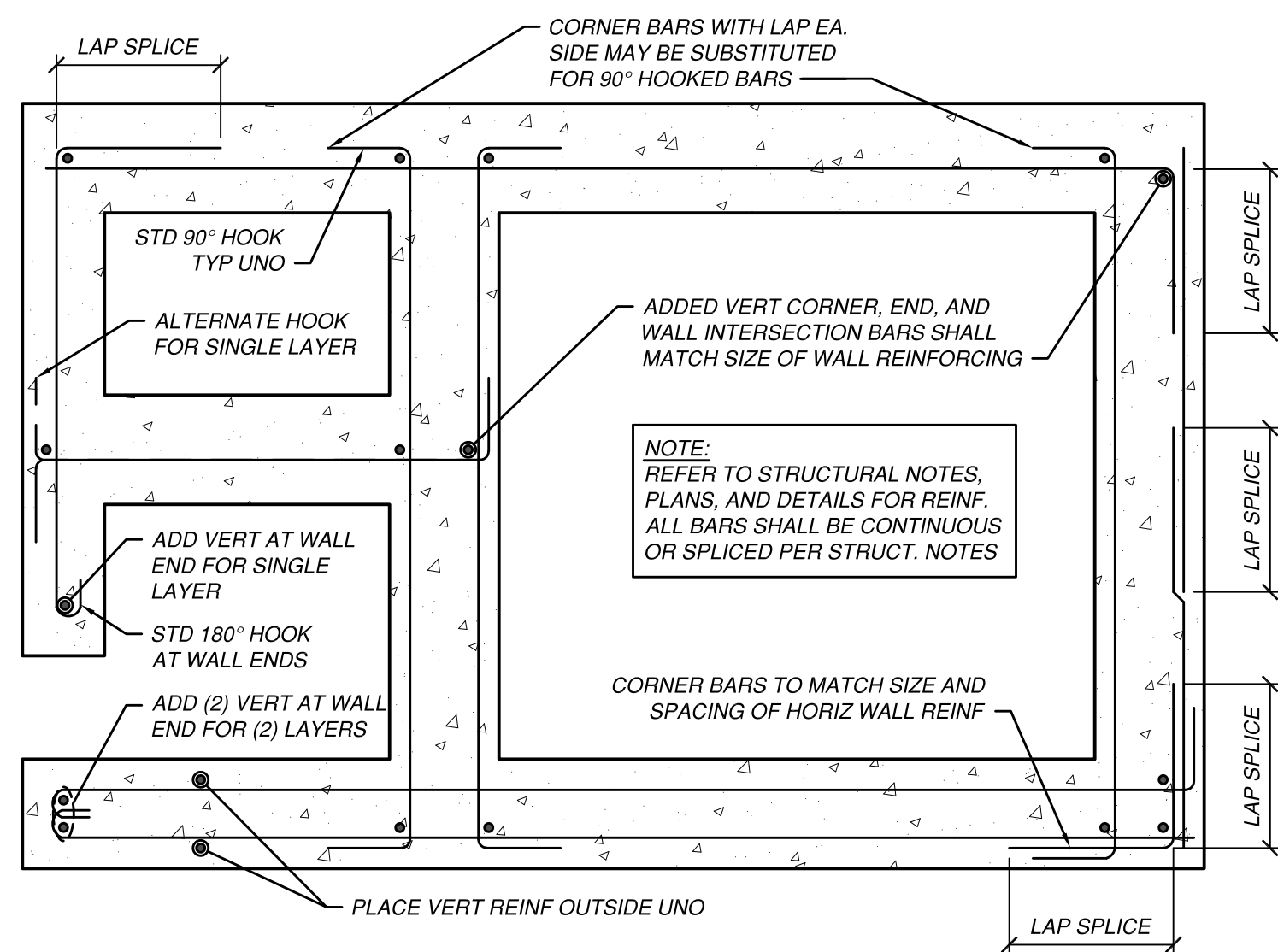


REV.	DATE	DESCRIPTION
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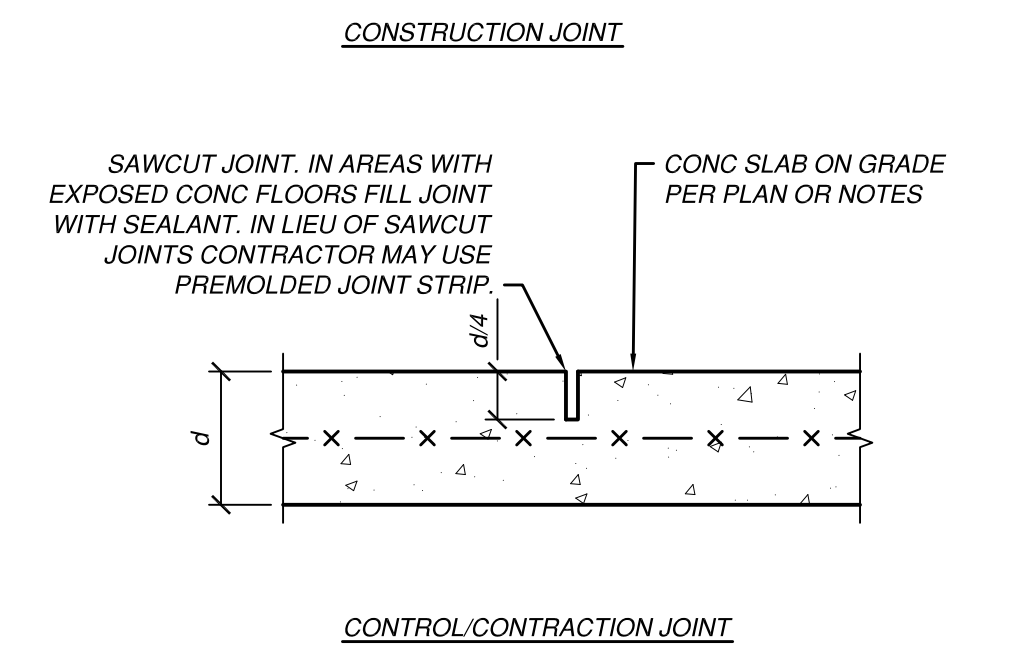
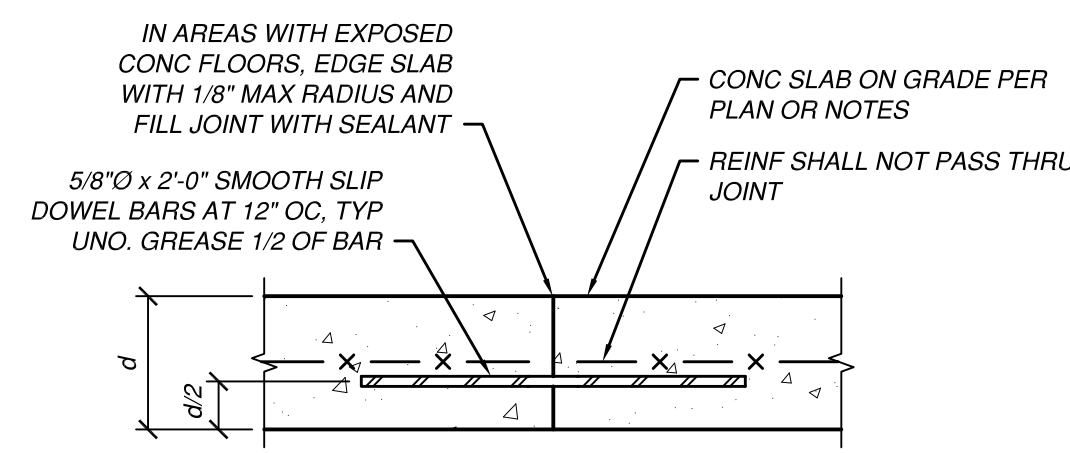
PROJECT NO.: 18041.02
DESIGNED BY: JMD
DRAWN BY: JMD
CHECKED BY: CAB

FRAMING PLANS

SHEET NO.: **S2.1**

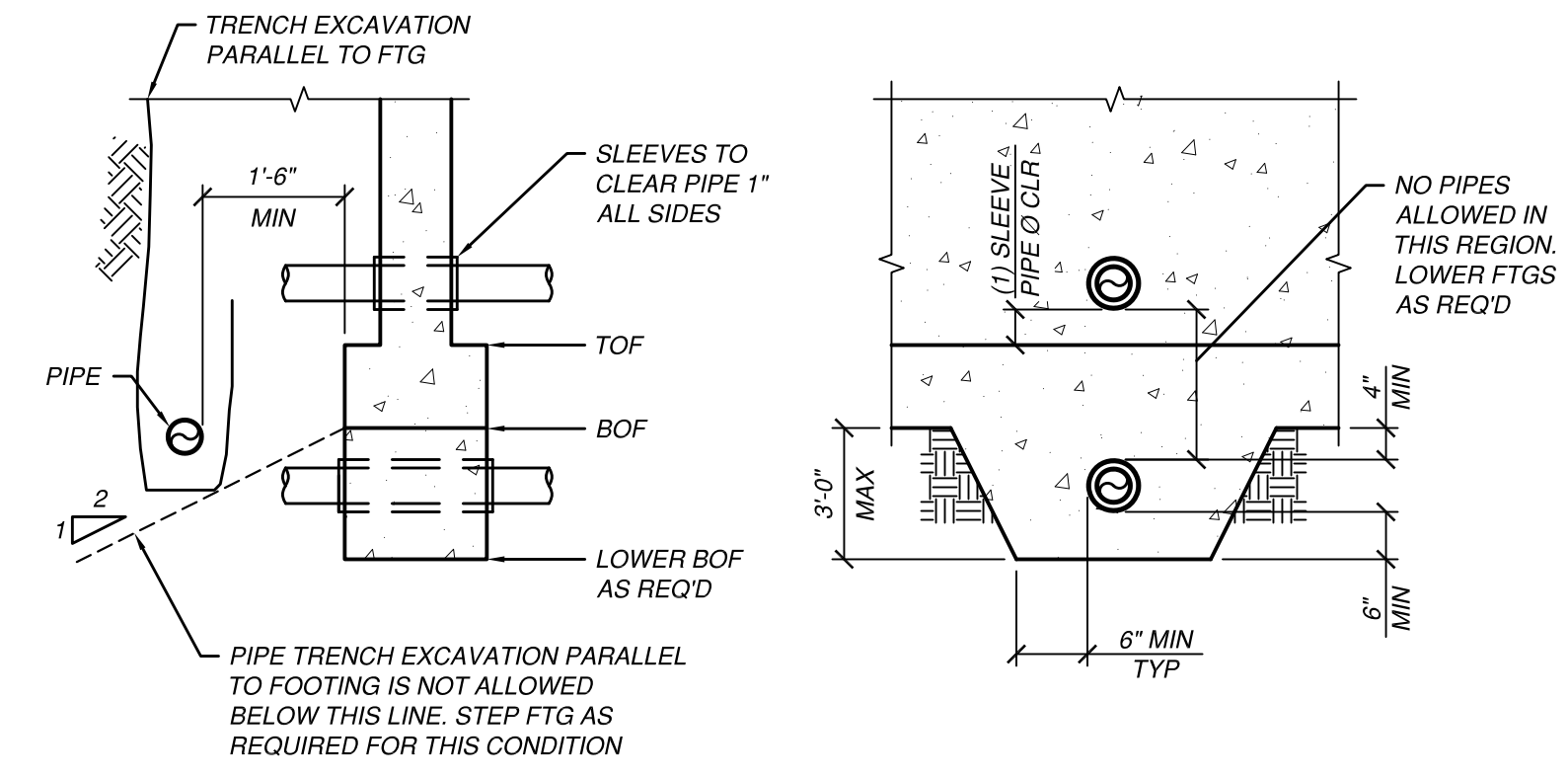
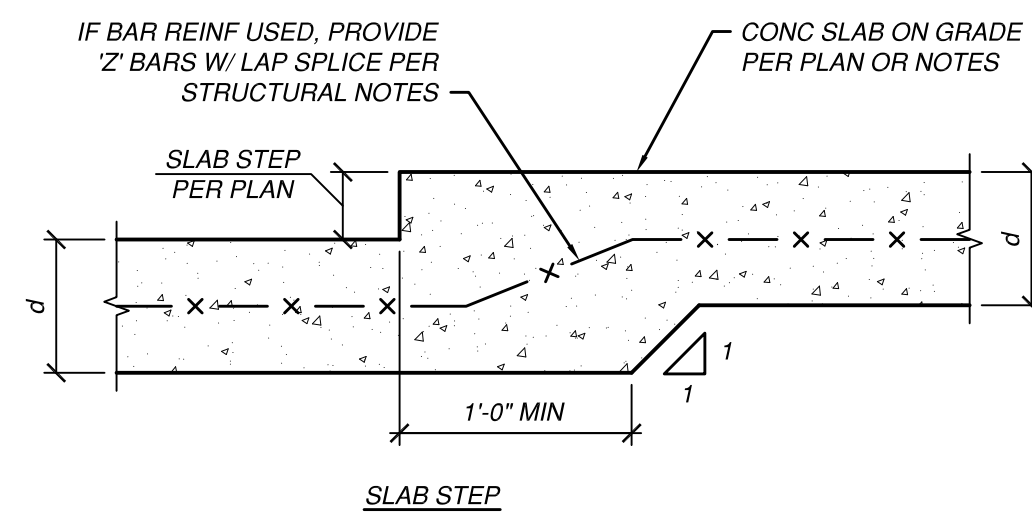


1 TYPICAL CONCRETE WALL REINFORCING DETAIL
SCALE: NTS

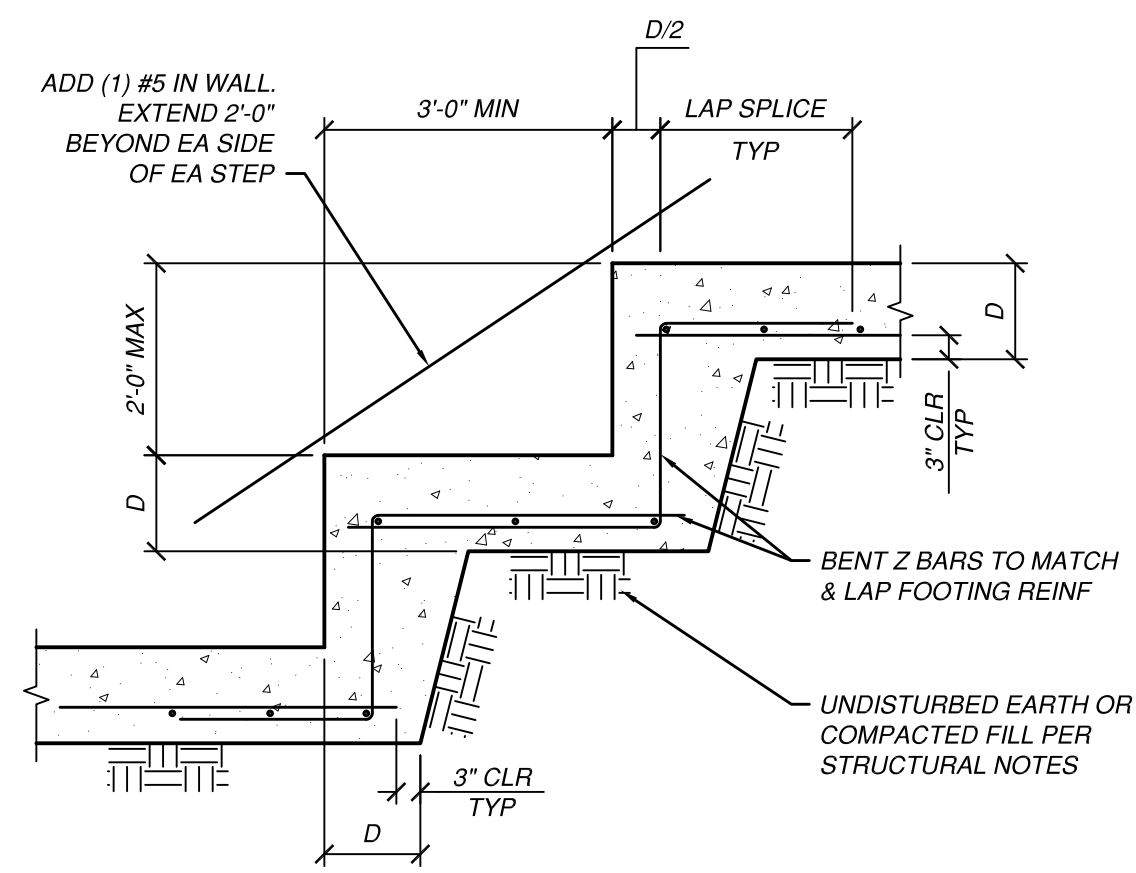


2 TYPICAL SLAB ON GRADE DETAILS
SCALE: 1" = 1'-0"

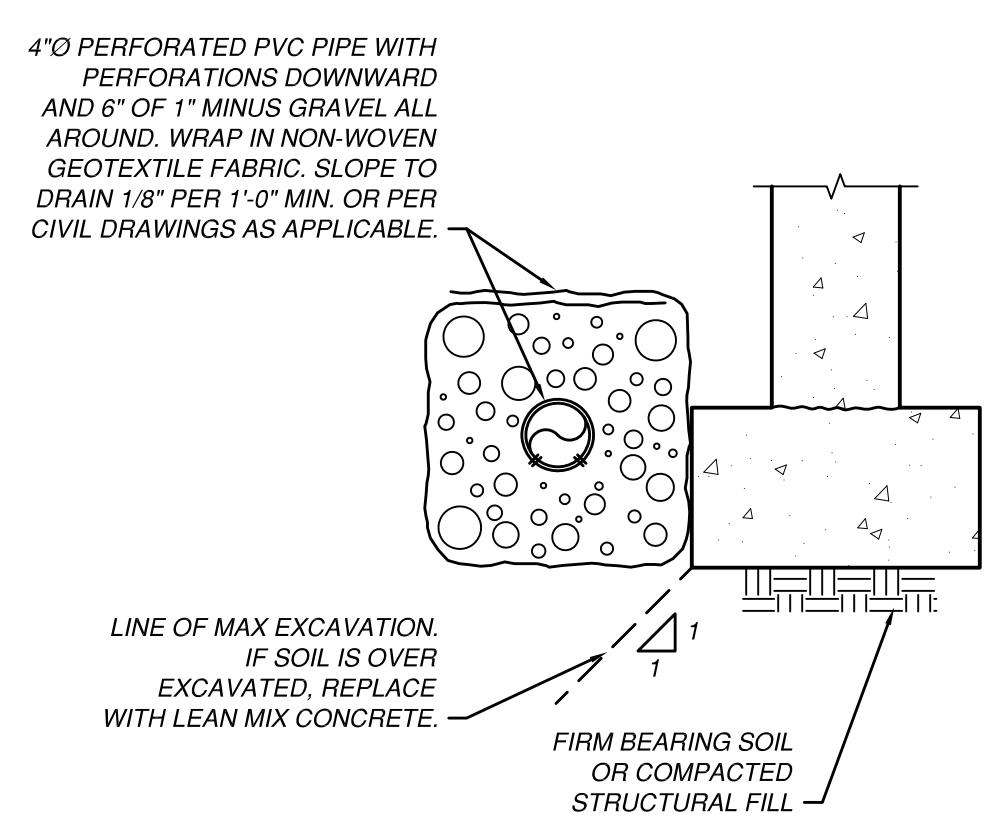
NOTE:
1. CONTROL OR CONSTRUCTION JOINTS ARE REQUIRED TO BREAK UP EACH SLAB INTO RECTANGULAR AREAS OF LESS THAN 400 SQUARE FEET. AREAS SHALL BE AS SQUARE AS PRACTICAL WITH NO ACUTE ANGLES. ALL JOINTS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO PLACEMENT.
2. PLACE SLAB ON GRADE ON VAPOR BARRIER OVER SUITABLE COMPACTED SUBGRADE MATERIAL. REFER TO PLAN NOTES.



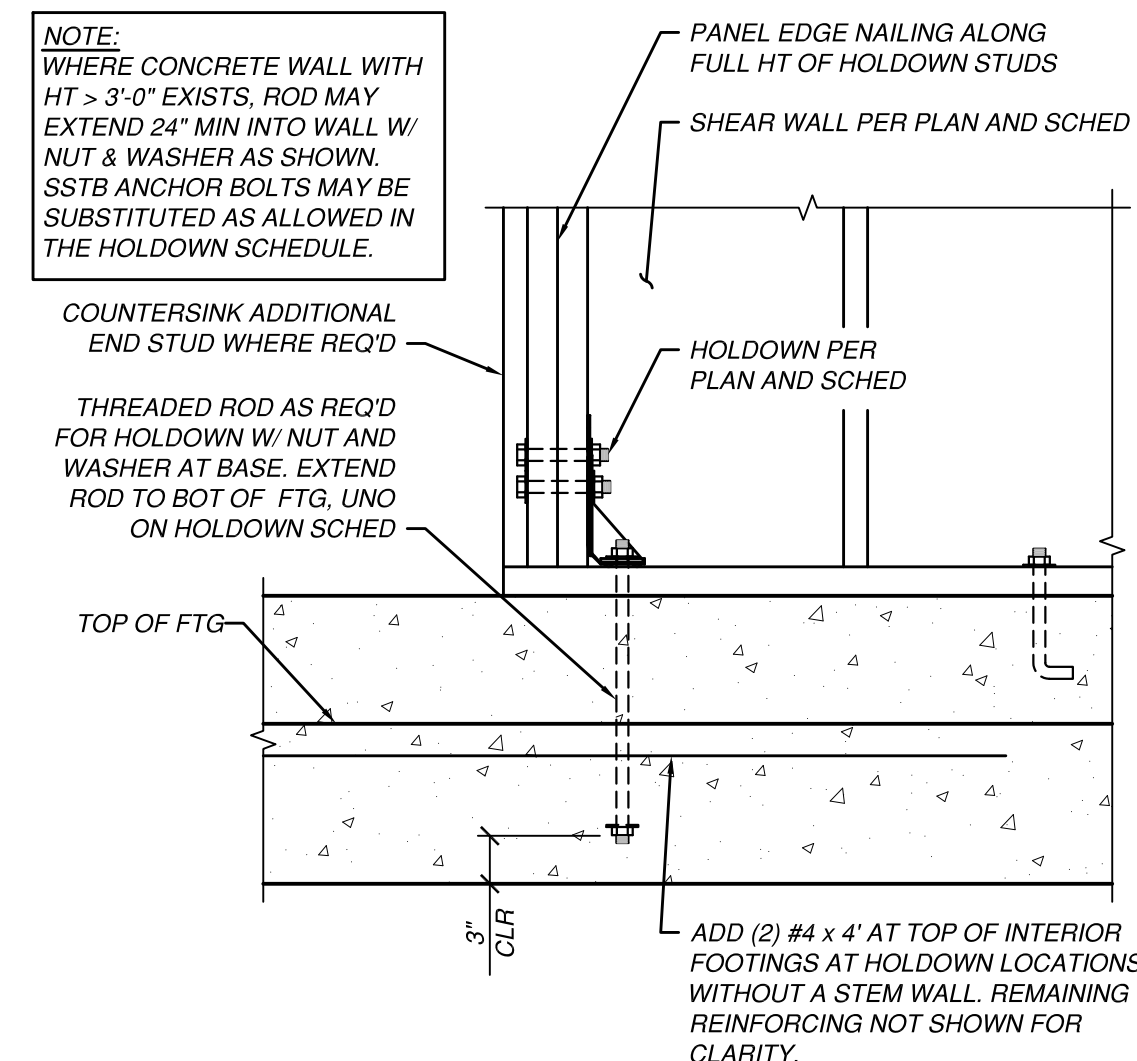
3 TYPICAL PIPE PENETRATION AT FOUNDATION/WALLS
SCALE: 1/2" = 1'-0"



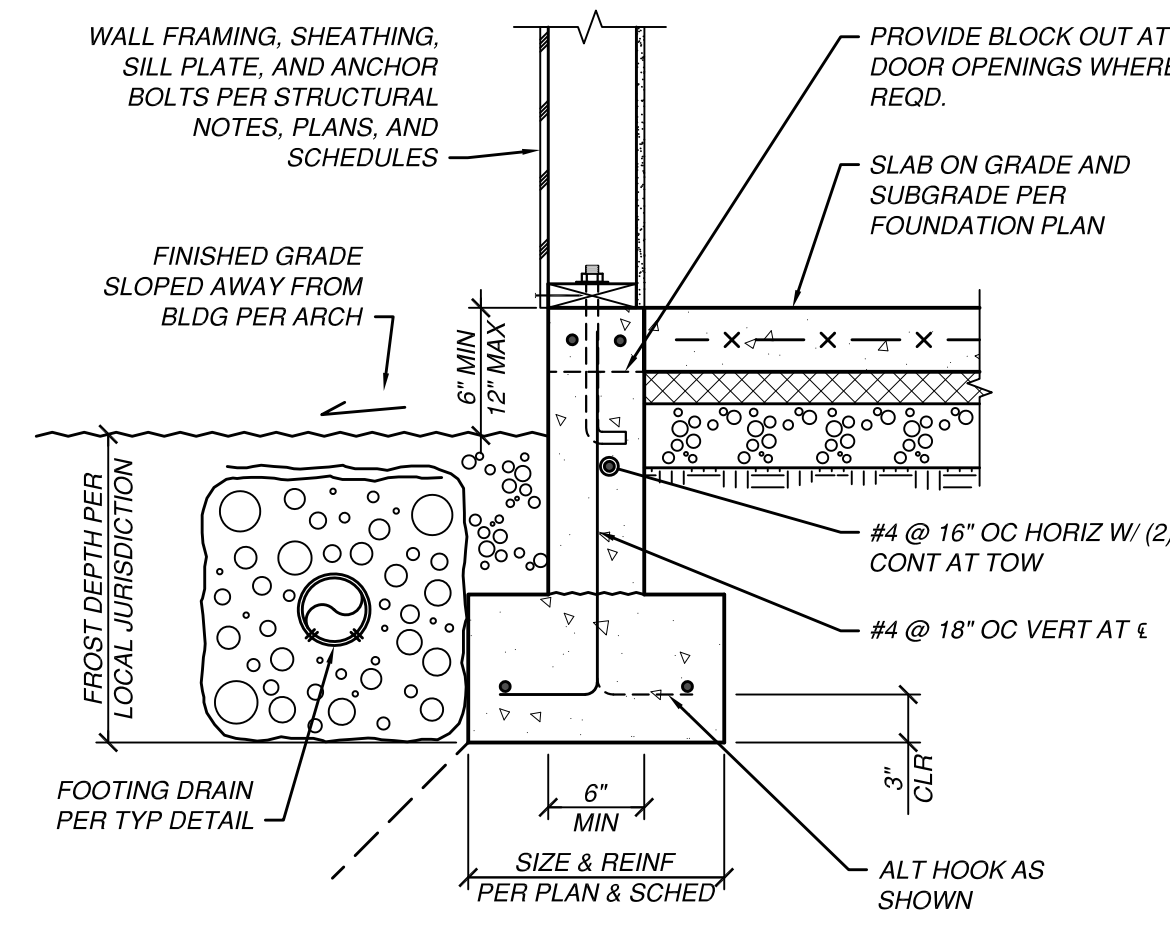
4 TYPICAL FOOTING STEP
SCALE: 1/2" = 1'-0"



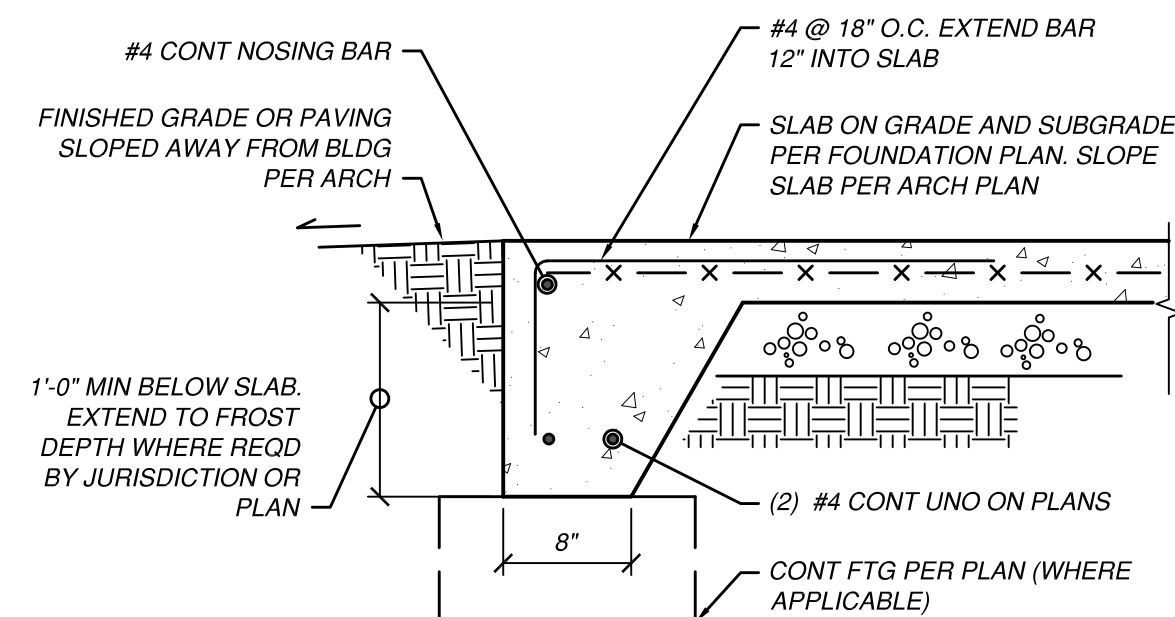
5 TYPICAL FOOTING DRAIN
SCALE: 1" = 1'-0"



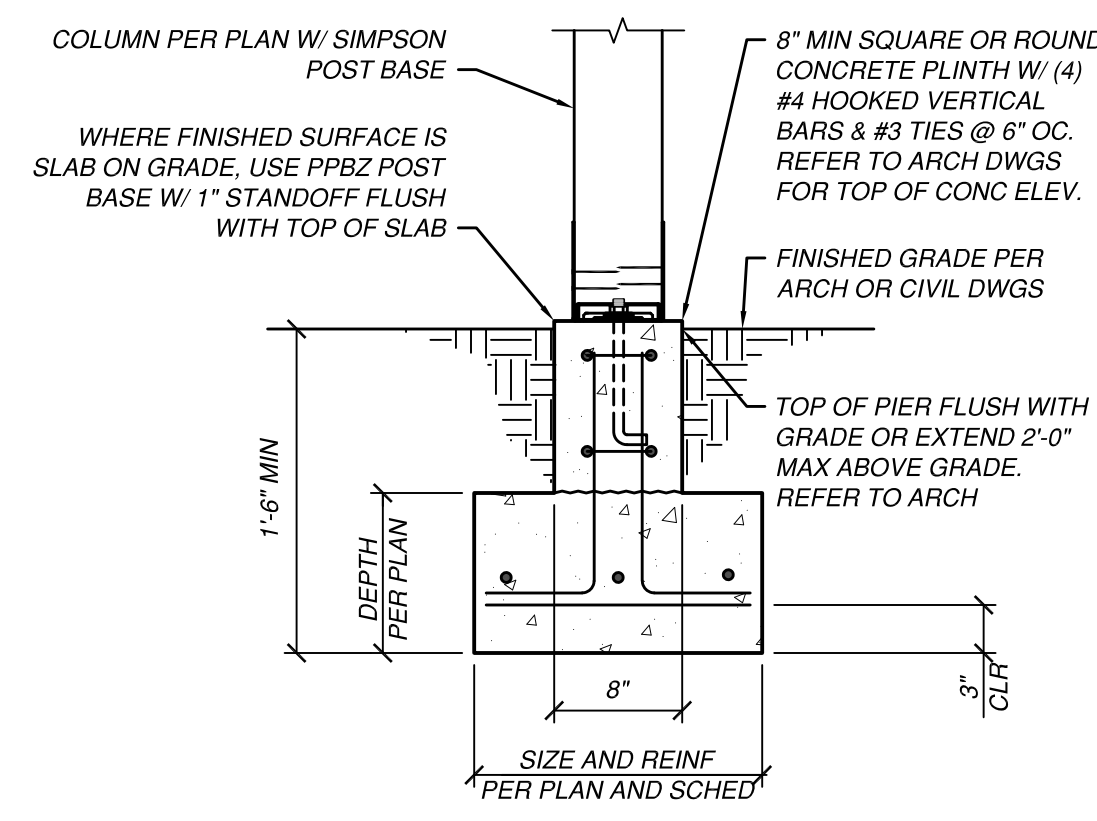
6 HOLDDOWN DETAIL
SCALE: 1" = 1'-0"



7 TYPICAL STEM WALL DETAIL
SCALE: 1" = 1'-0"

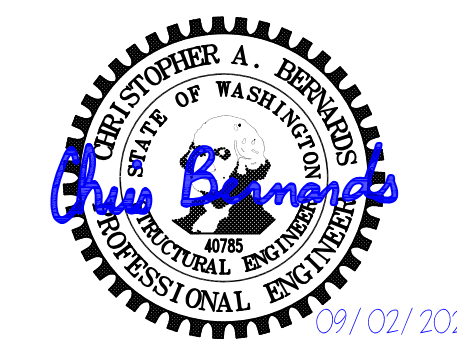


8 THICKENED SLAB EDGE
SCALE: 1" = 1'-0"



9 EXTERIOR COLUMN DETAIL
SCALE: 1" = 1'-0"

PROJECT:

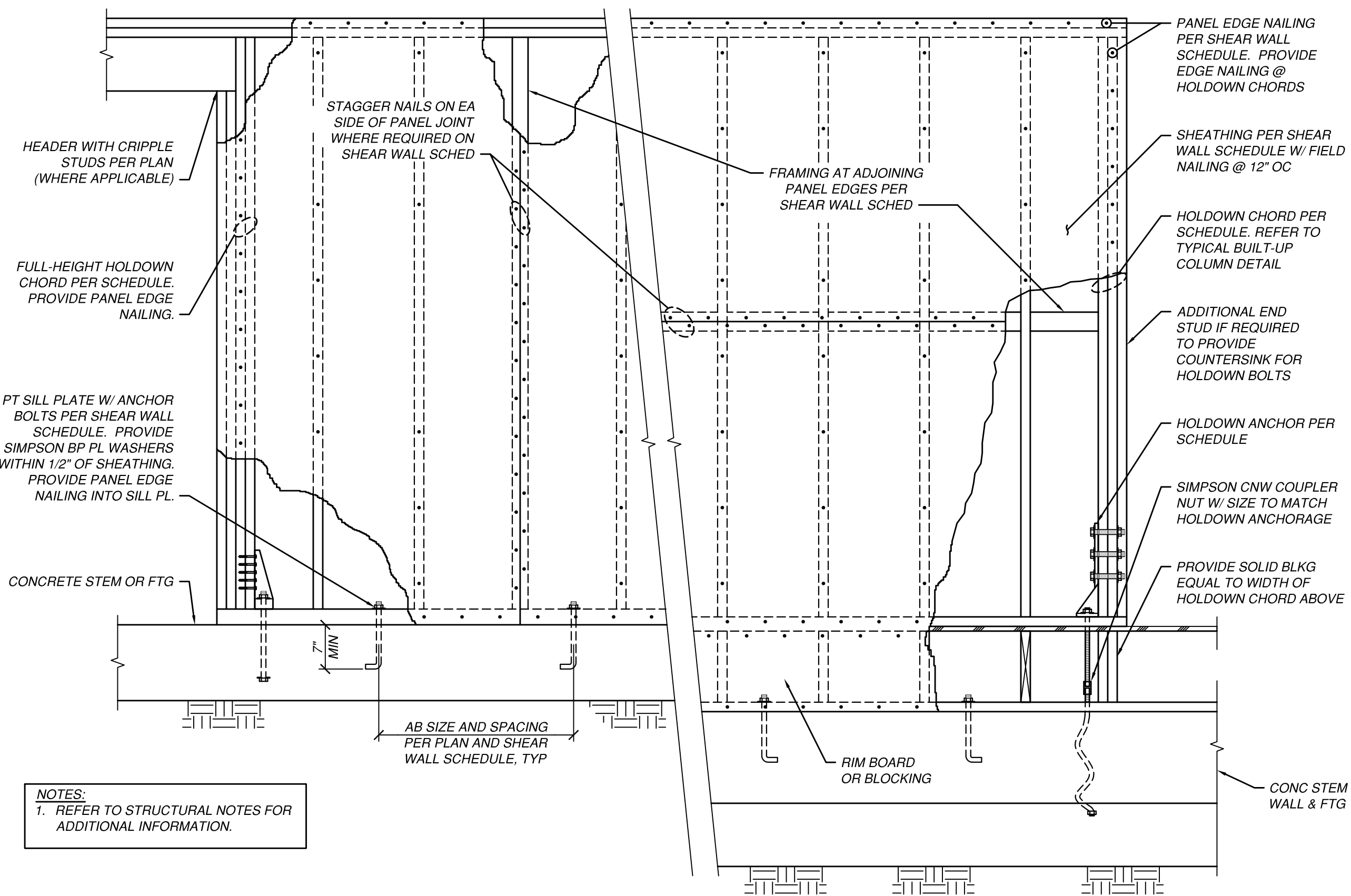


REV.	DATE	DESCRIPTION
0	09/02/20	PERMIT RESUBMITTAL

PROJECT NO.: 18041.02
DESIGNED BY: JMD
DRAWN BY: JMD
CHECKED BY: CAB

SHEET TITLE:
FOUNDATION DETAILS

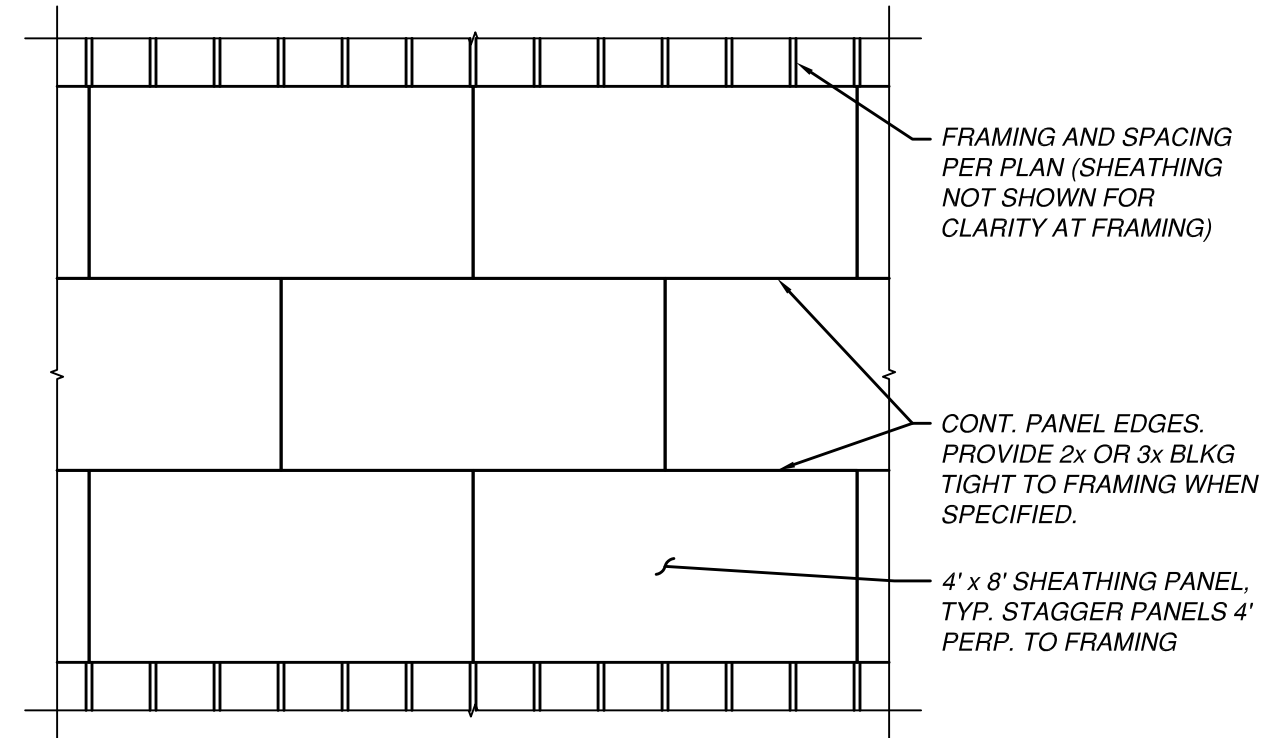
SHEET NO.:
S3.1



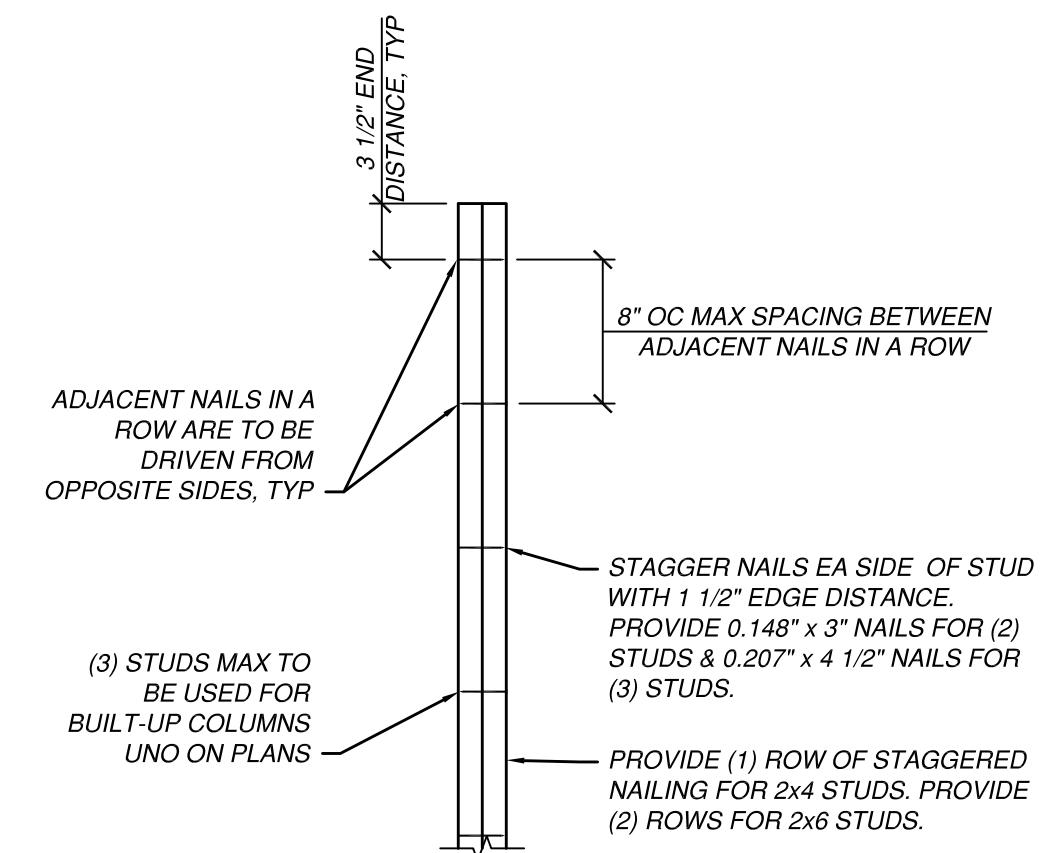
NOTES:
1. REFER TO STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.

1 TYPICAL SHEAR WALL DETAIL
SCALE: 3/4" = 1'-0"

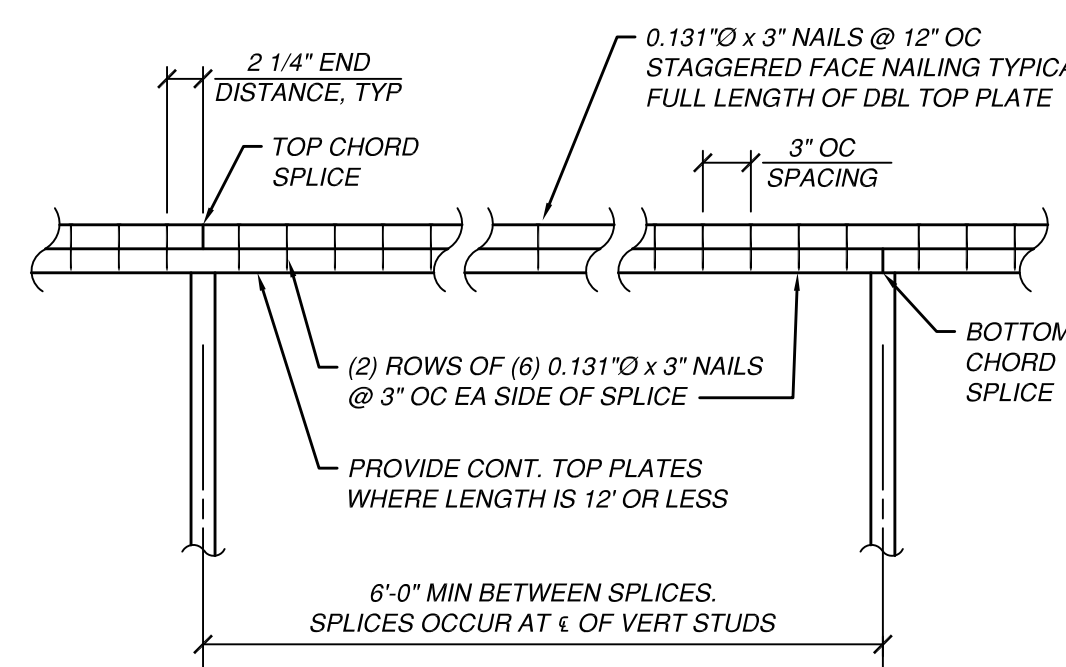
NOTES:
1. PANELS SHALL BE 4' x 8' EXCEPT AT BOUNDARIES AND CHANGES IN FRAMING WHERE THE MINIMUM PANEL DIMENSION SHALL BE 24".
2. FASTENER PATTERN SHALL BE PER PLAN AND NOTES. MINIMUM SPACING IS 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE FRAMING, UNO.



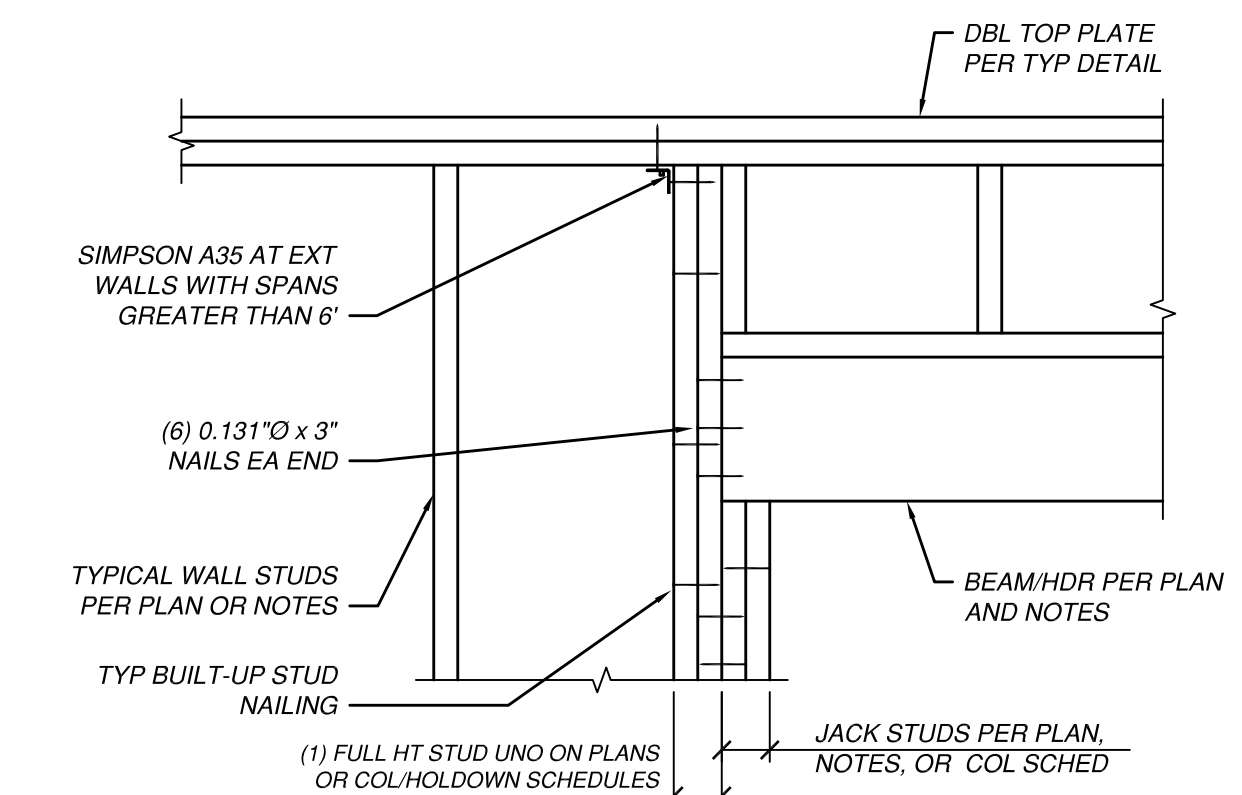
2 TYPICAL FLOOR/ ROOF SHEATHING DETAIL
SCALE: NTS



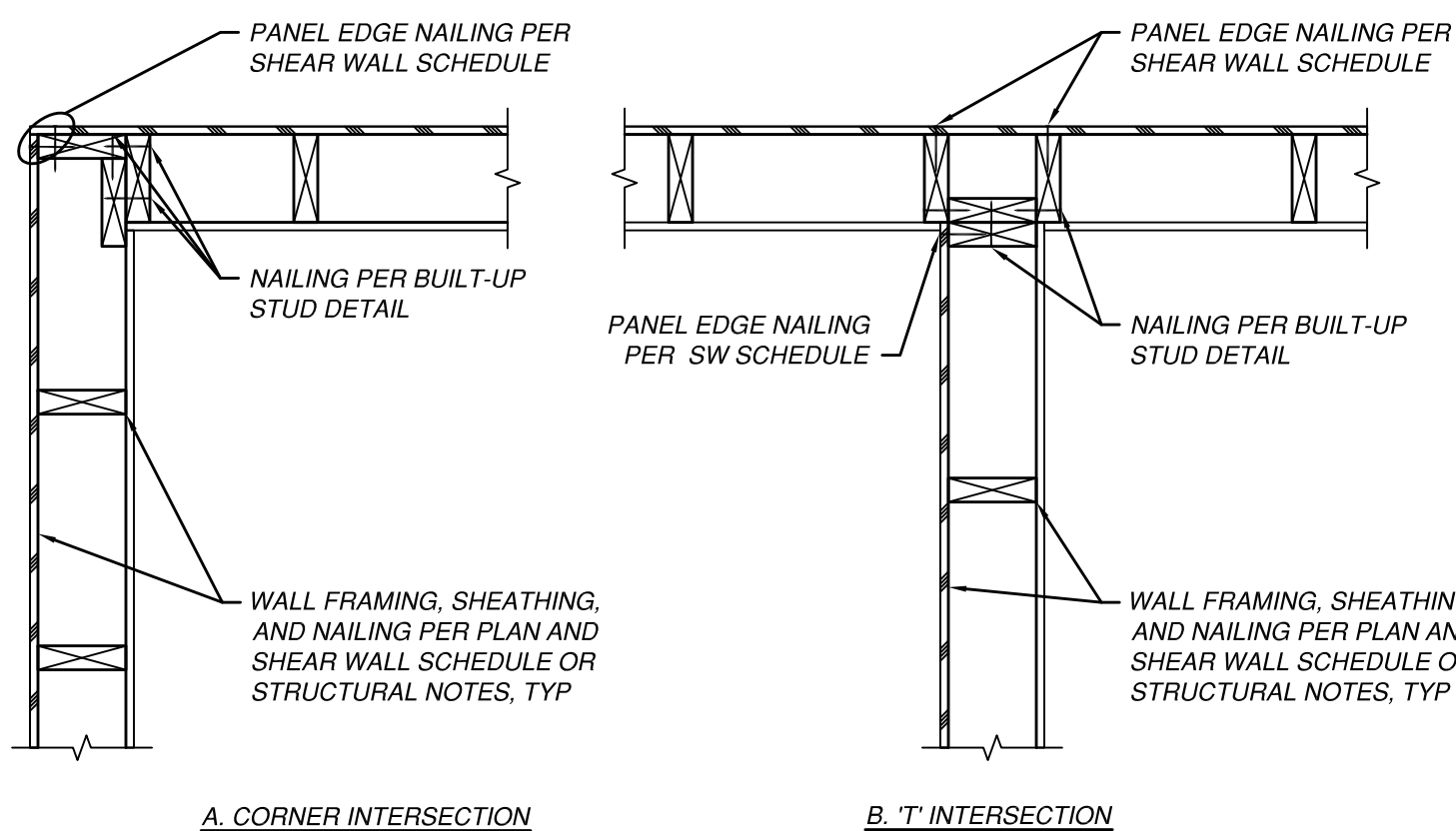
3 TYPICAL BUILT-UP STUD COLUMN DETAIL
SCALE: 1" = 1'-0"



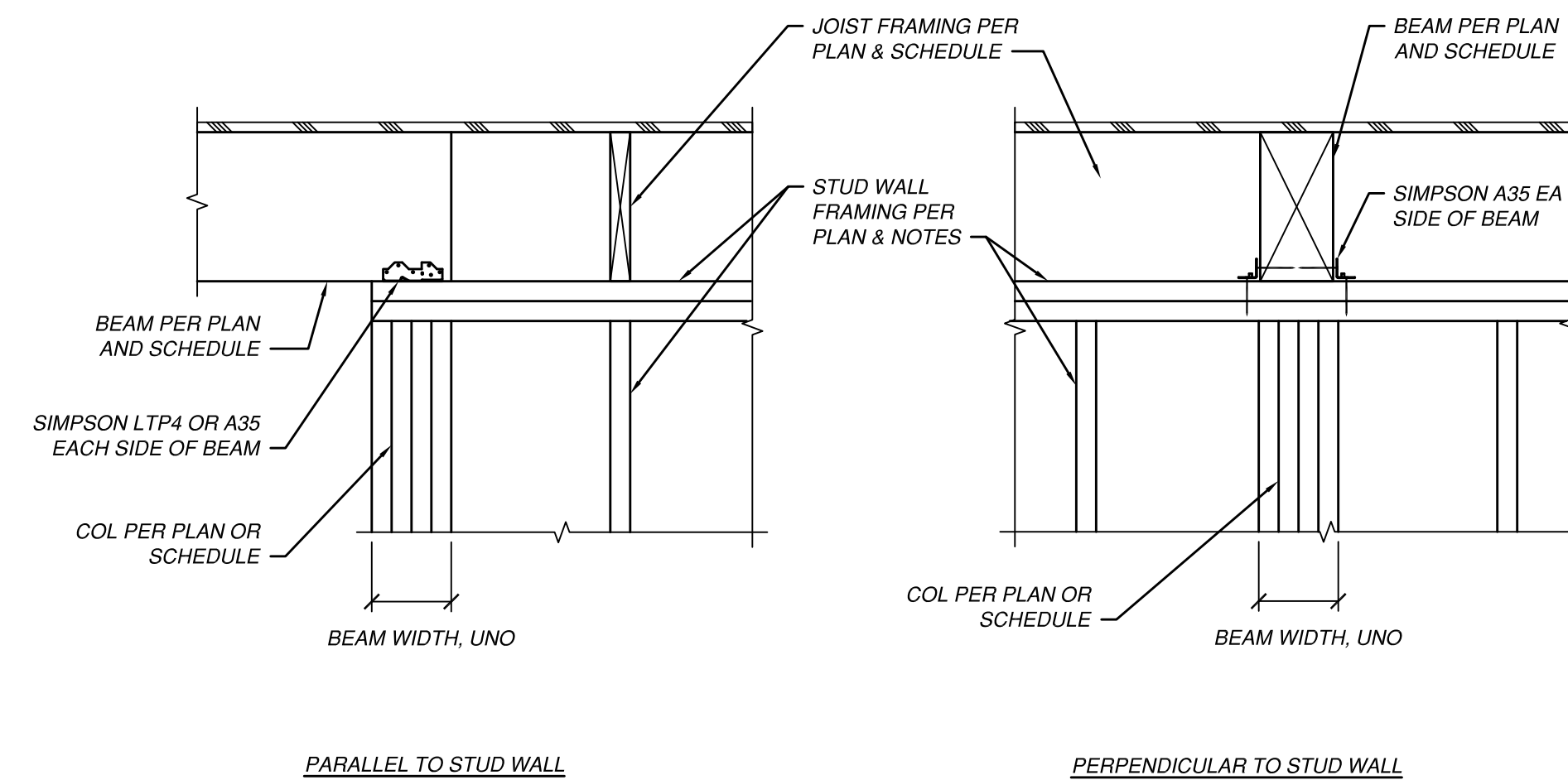
4 TYPICAL TOP PLATE SPLICE DETAIL
SCALE: 1" = 1'-0"



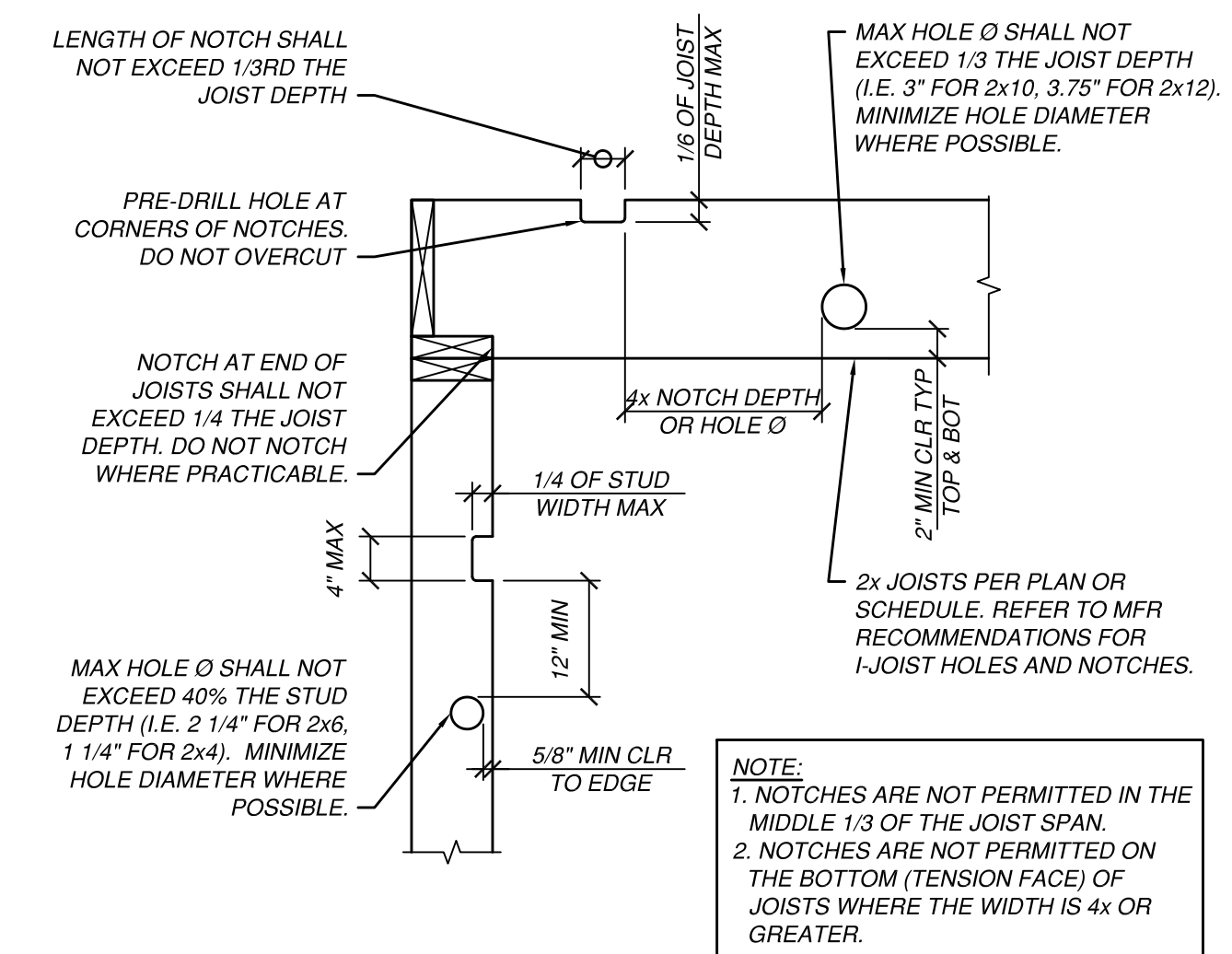
5 TYPICAL HEADER DETAIL
SCALE: 1" = 1'-0"



6 TYPICAL SHEAR WALL INTERSECTION DETAIL
SCALE: 1" = 1'-0"

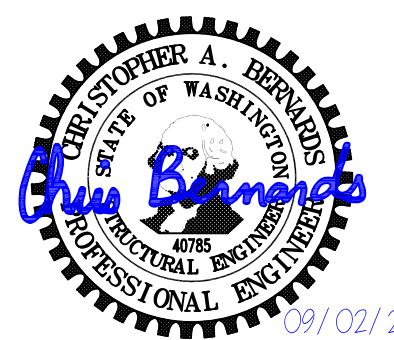


7 TYPICAL FLUSH BEAM SUPPORT DETAILS
SCALE: 1" = 1'-0"



8 ALLOWABLE HOLES & NOTCHES
SCALE: 1" = 1'-0"

PROJECT:

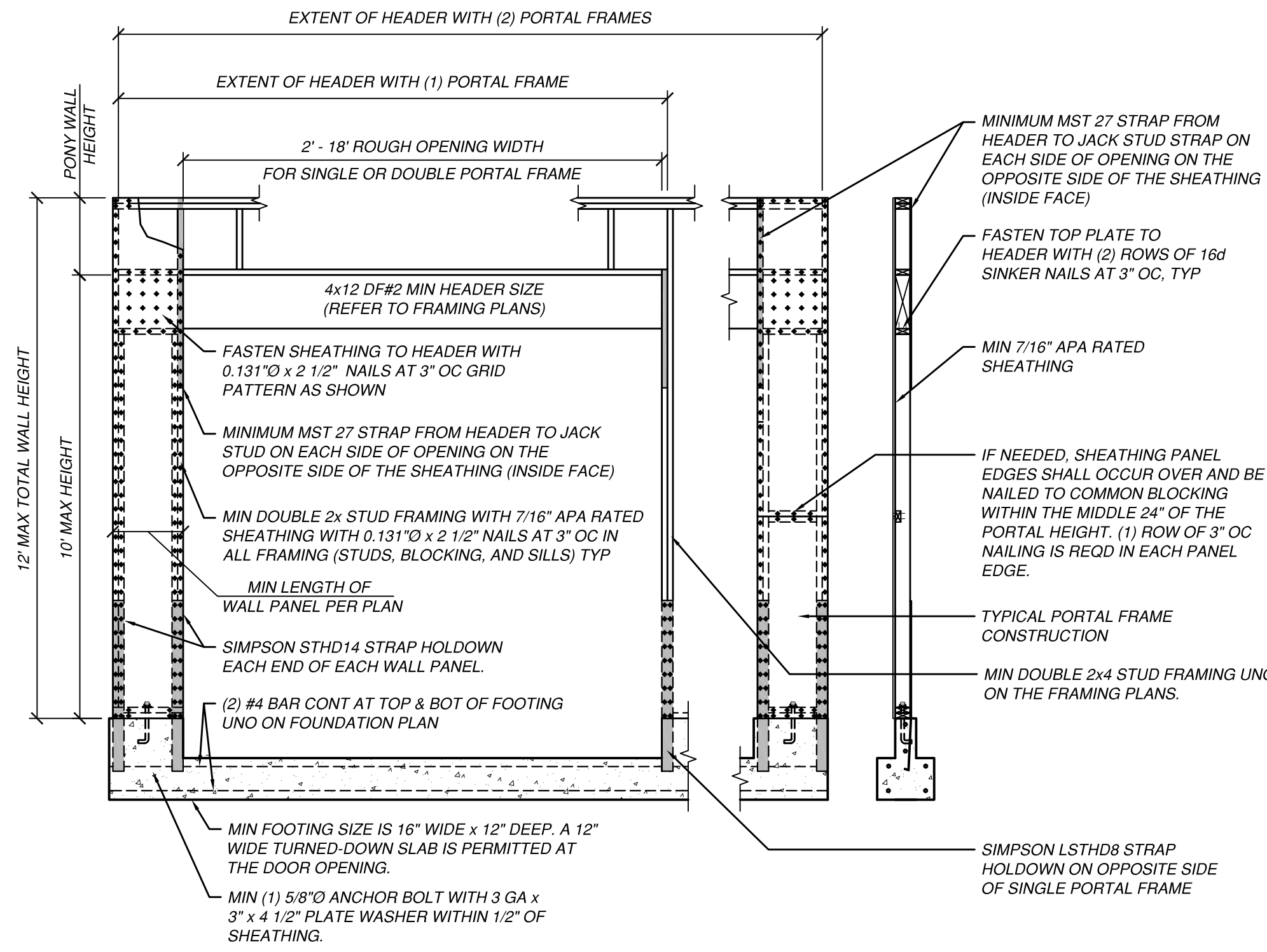


REV.	DATE	DESCRIPTION
0	09/02/20	PERMIT RESUBMITTAL

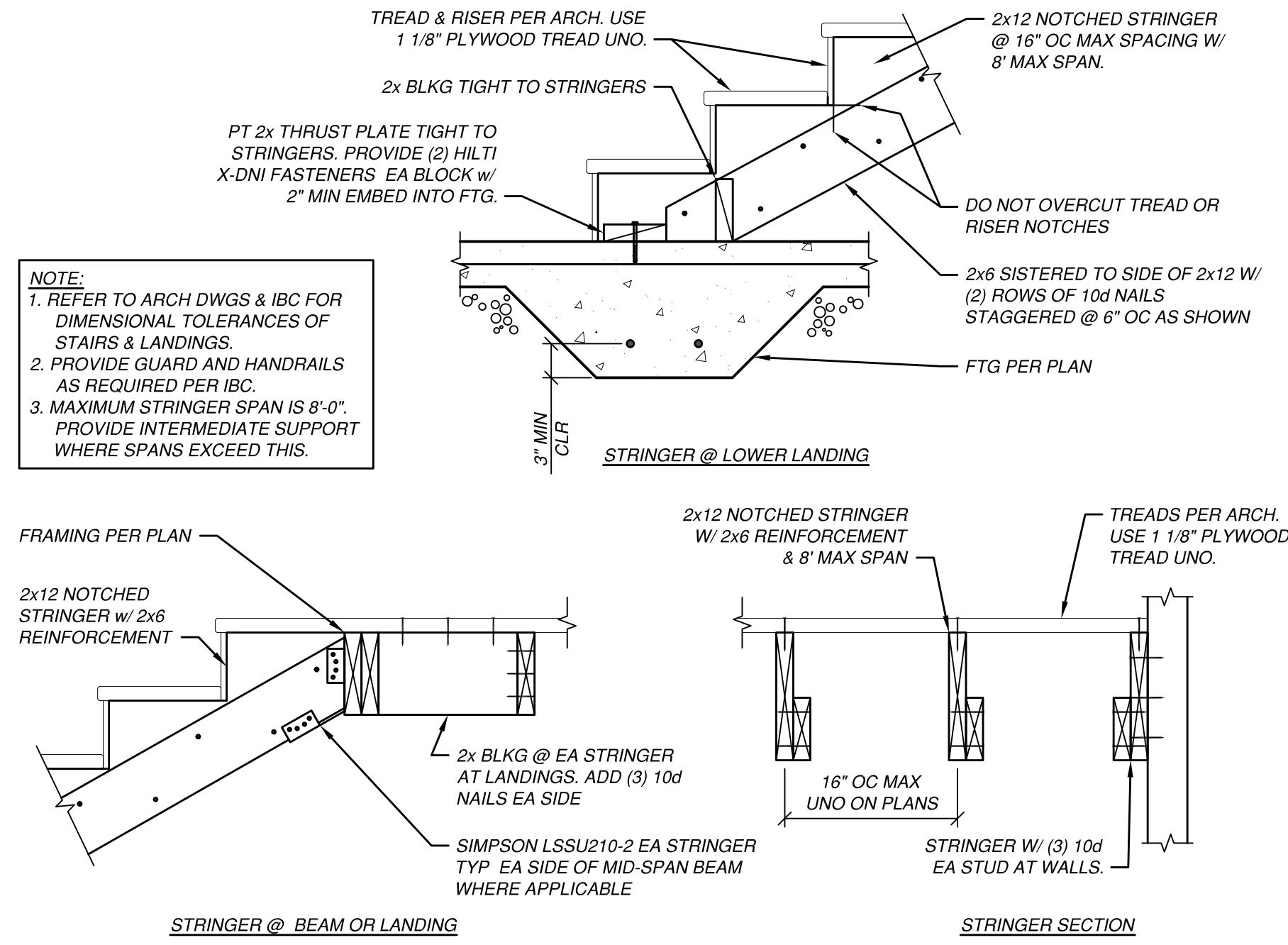
PROJECT NO.: 18041.02
DESIGNED BY: JMD
DRAWN BY: JMD
CHECKED BY: CAB

SHEET TITLE: WOOD FRAMING DETAILS

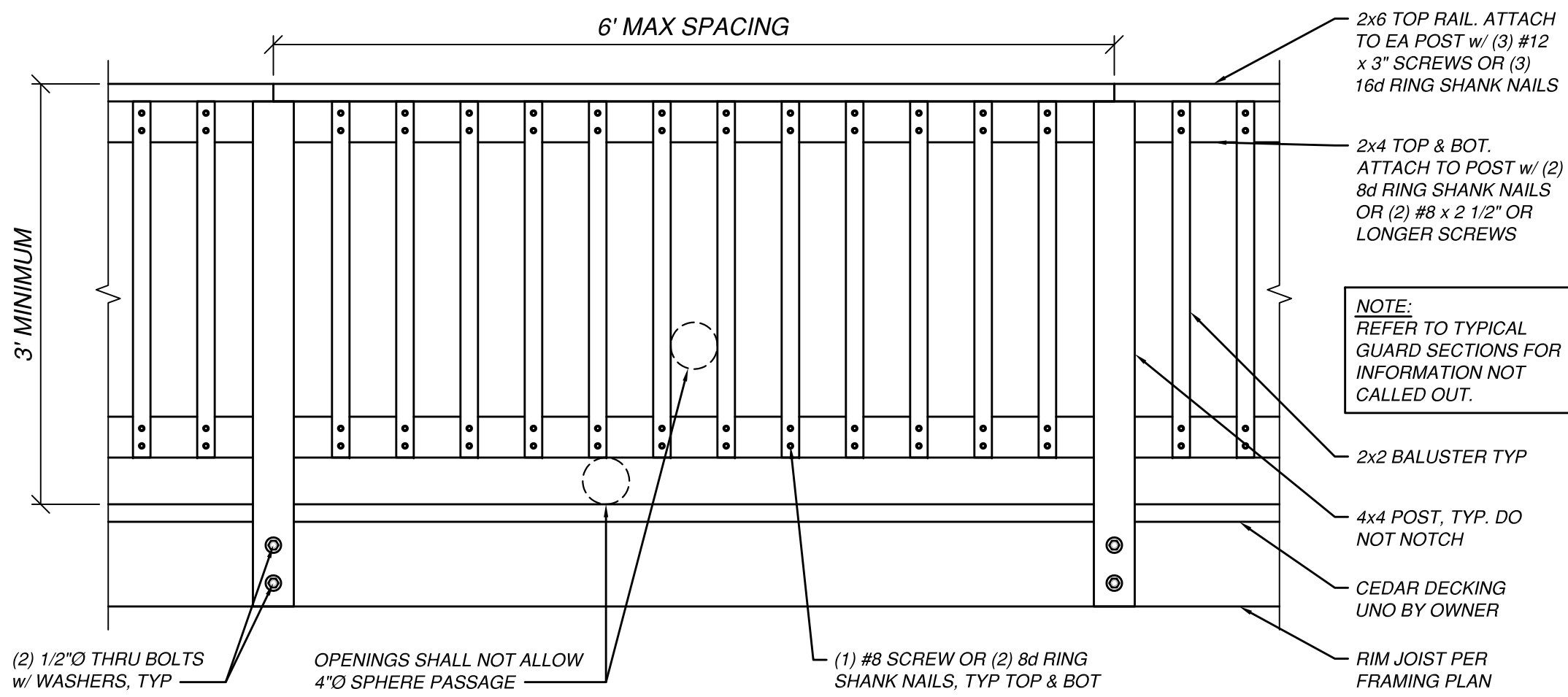
SHEET NO.: S4.1



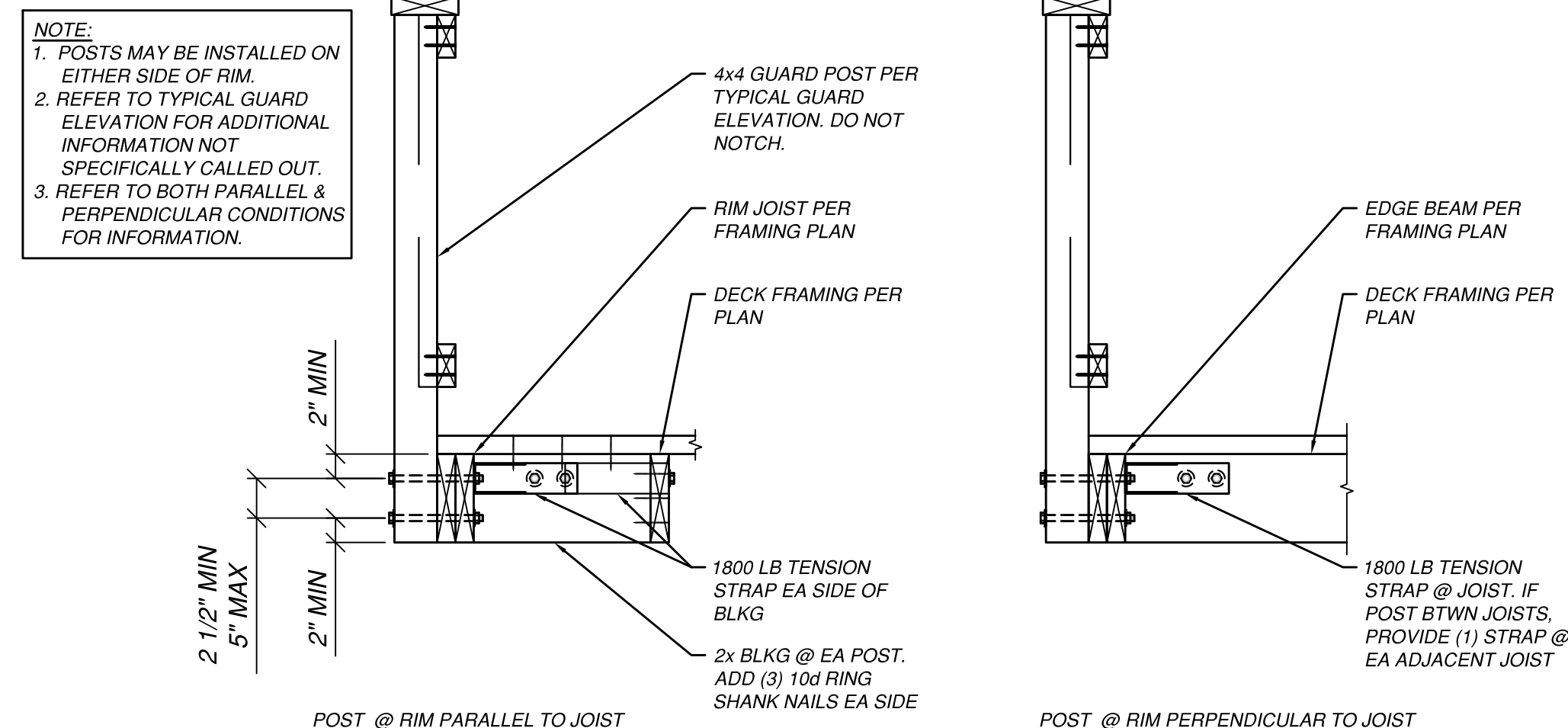
1 PORTAL FRAME DETAIL
SCALE: NTS



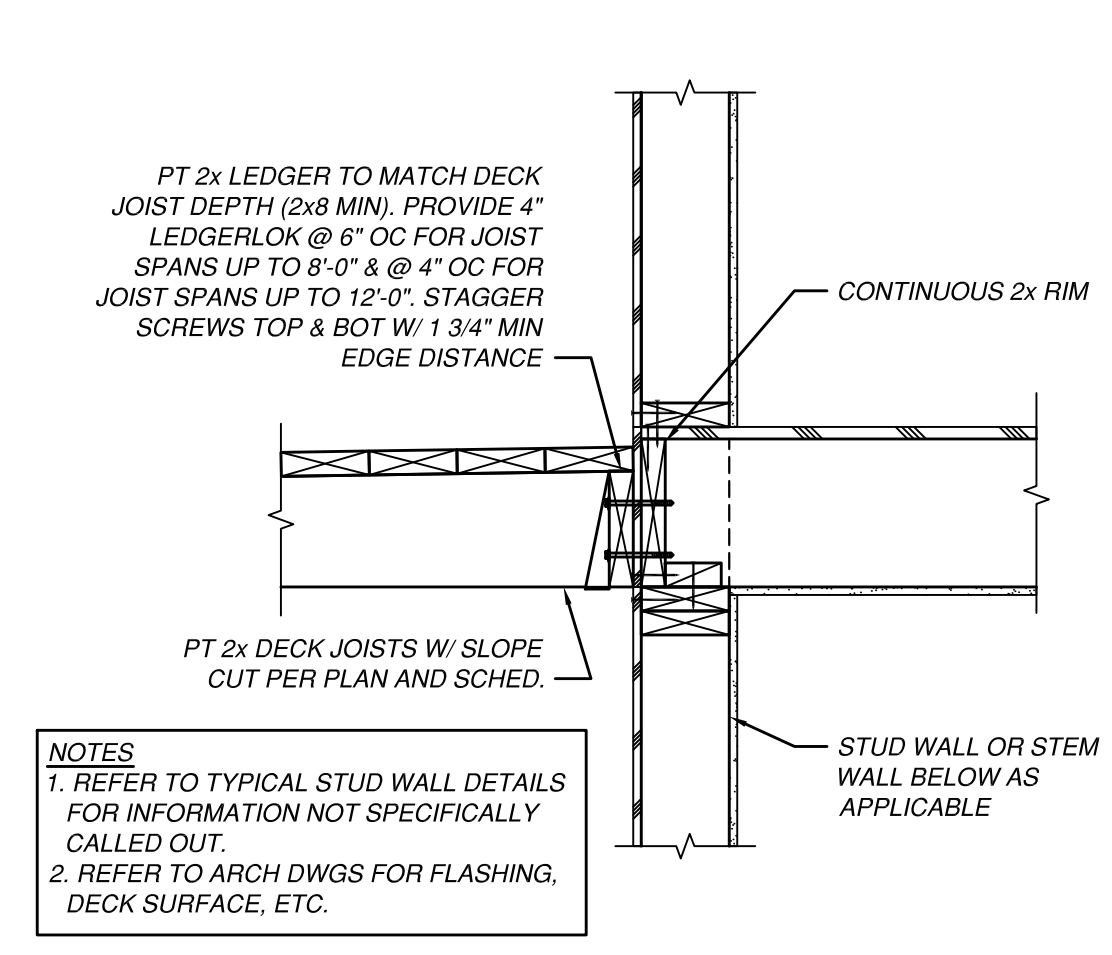
2 TYPICAL STAIR DETAILS
SCALE: 1" = 1'-0"



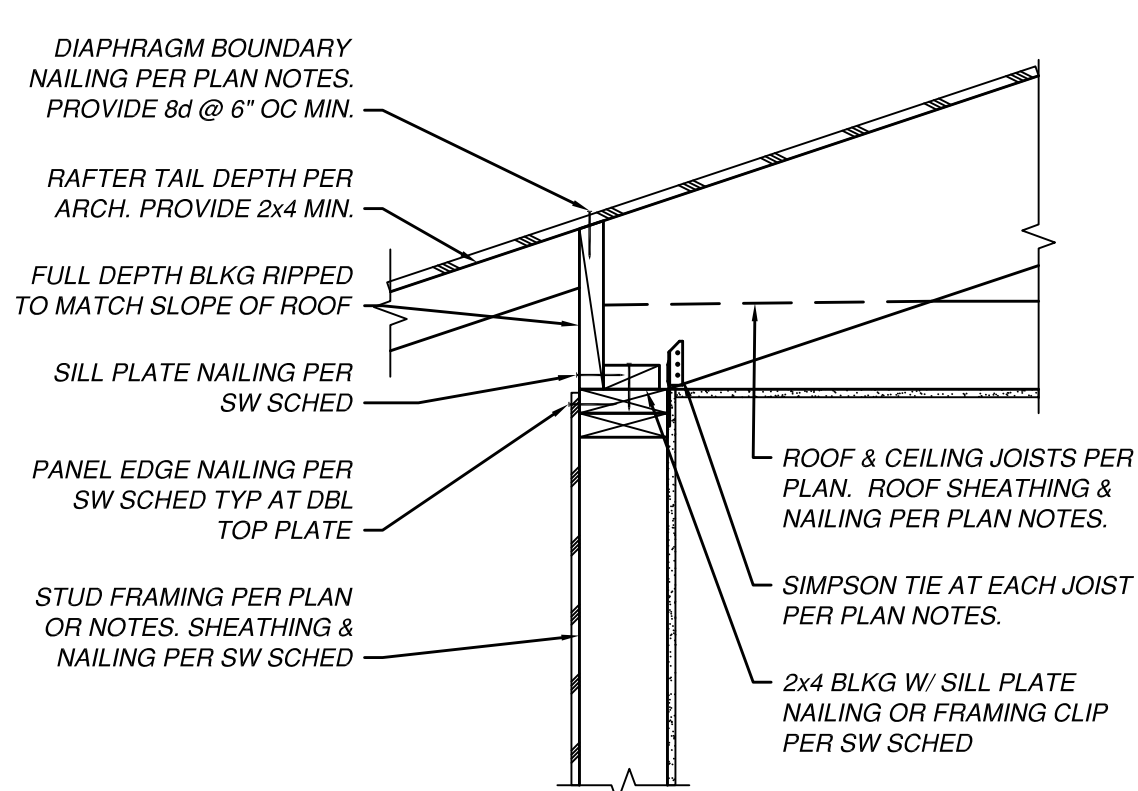
3 TYPICAL GUARD ELEVATION
SCALE: 1" = 1'-0"



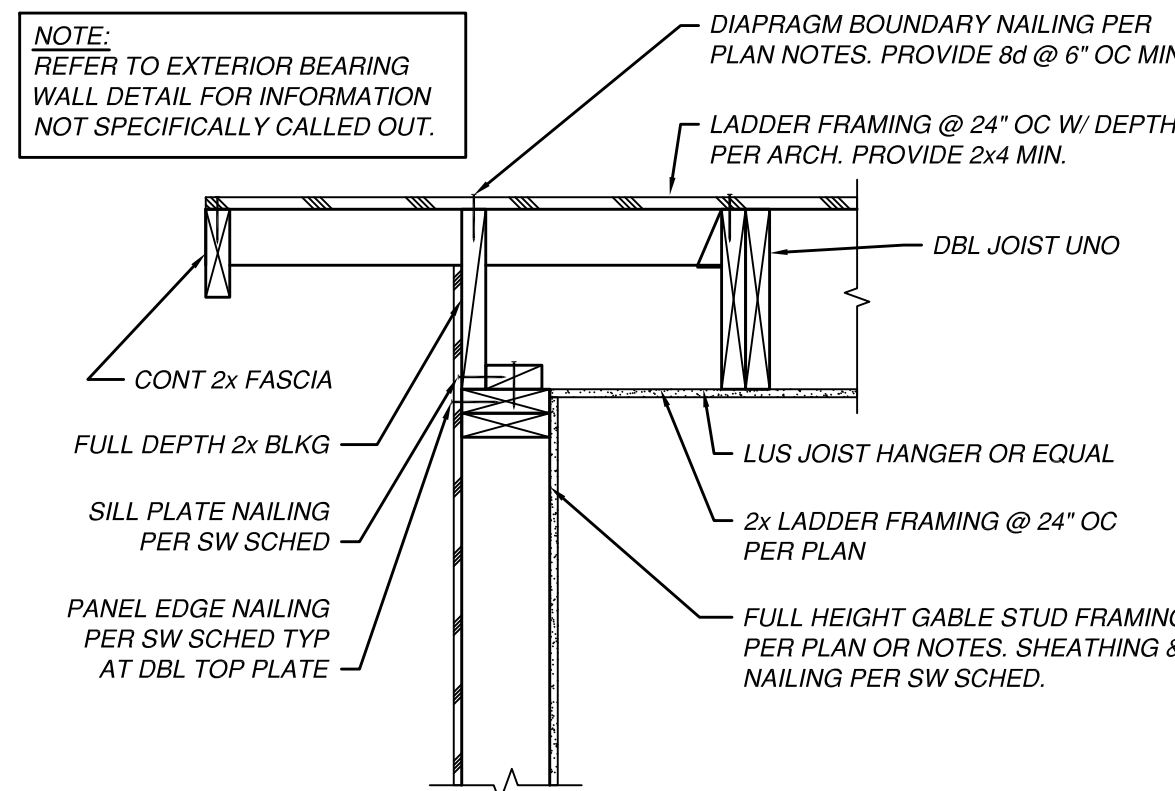
4 TYPICAL GUARD SECTIONS
SCALE: 1" = 1'-0"



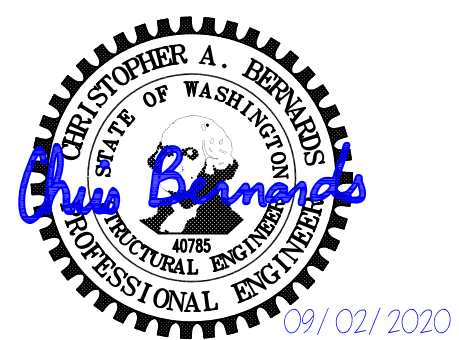
5 DECK/PORCH DETAIL
SCALE: 1" = 1'-0"



6 ROOF BEARING WALL DETAIL
SCALE: 1" = 1'-0"



7 ROOF NON-BEARING WALL DETAIL
SCALE: 1" = 1'-0"



REV.	DATE	DESCRIPTION
0	09/02/20	PERMIT RESUBMITTAL

PROJECT NO.: 18041.02
DESIGNED BY: JMD
DRAWN BY: JMD
CHECKED BY: CAB

SHEET TITLE: **WOOD FRAMING DETAILS**
SHEET NO.: