

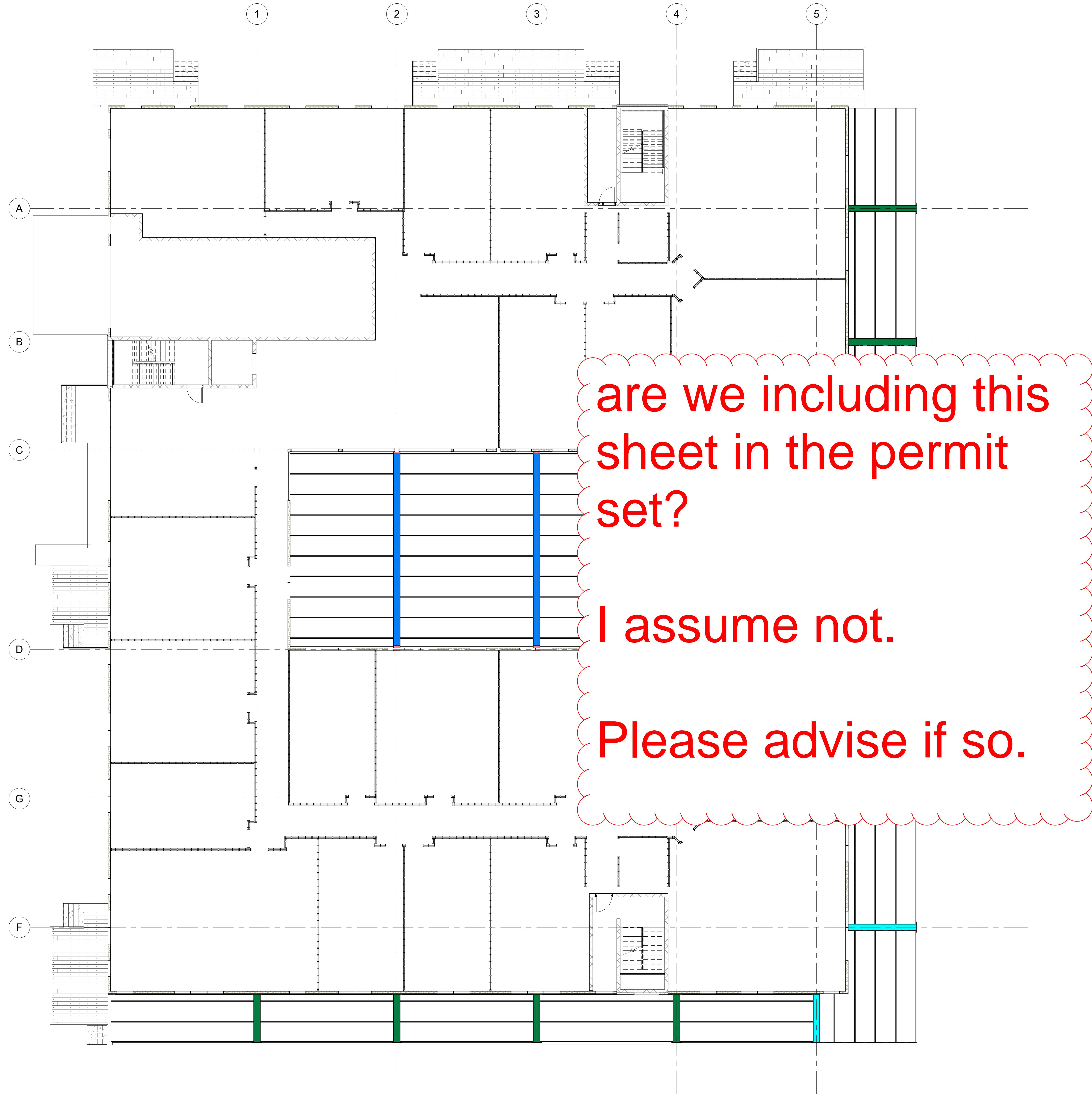
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WALL TYPES		
WALL TYPE	TYPE	THICKNESS/SIZE
W0	CONCRETE	0' 10"
W1	CONCRETE	0' 10"
W2	CONCRETE	0' 10"
W3	CONCRETE	0' 10"
BLOCK WALL	CONCRETE	0' 10"

WALL ELEVATION:	
	-0' 1"
	-0' 5"
	-1' 4"
	-1' 5"
	-1' 5" Block
	-2' 8"
	-3' 5"



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ryan@openingdesign.com | 773.425.6456



General Contractor: ROYAL CONSTRUCTION  
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Civil Engineer: CEDAR CORPORATION  
604 Wilson Avenue | Menomonie, WI 54751  
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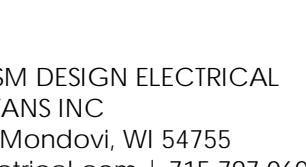
Structural Engineer: Structural Engineering  
Calle Apoloñio Morales, 628036 Madrid,  
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Structural Engineer: Structural Engineering  
4729 Dale-Curtain Dr, McFarland, WI 53558  
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Mechanical Engineer: HOVLAND'S HVAC  
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CONSULTANTS INC  
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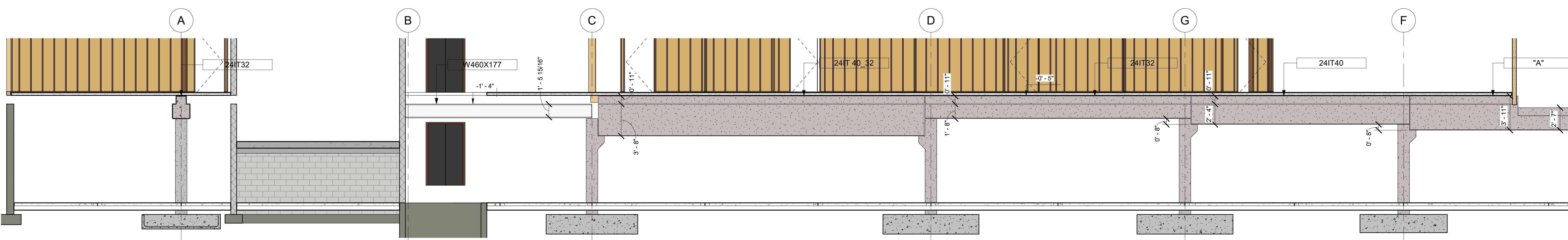


Plumbing Engineer: TAILORED ENGINEERING  
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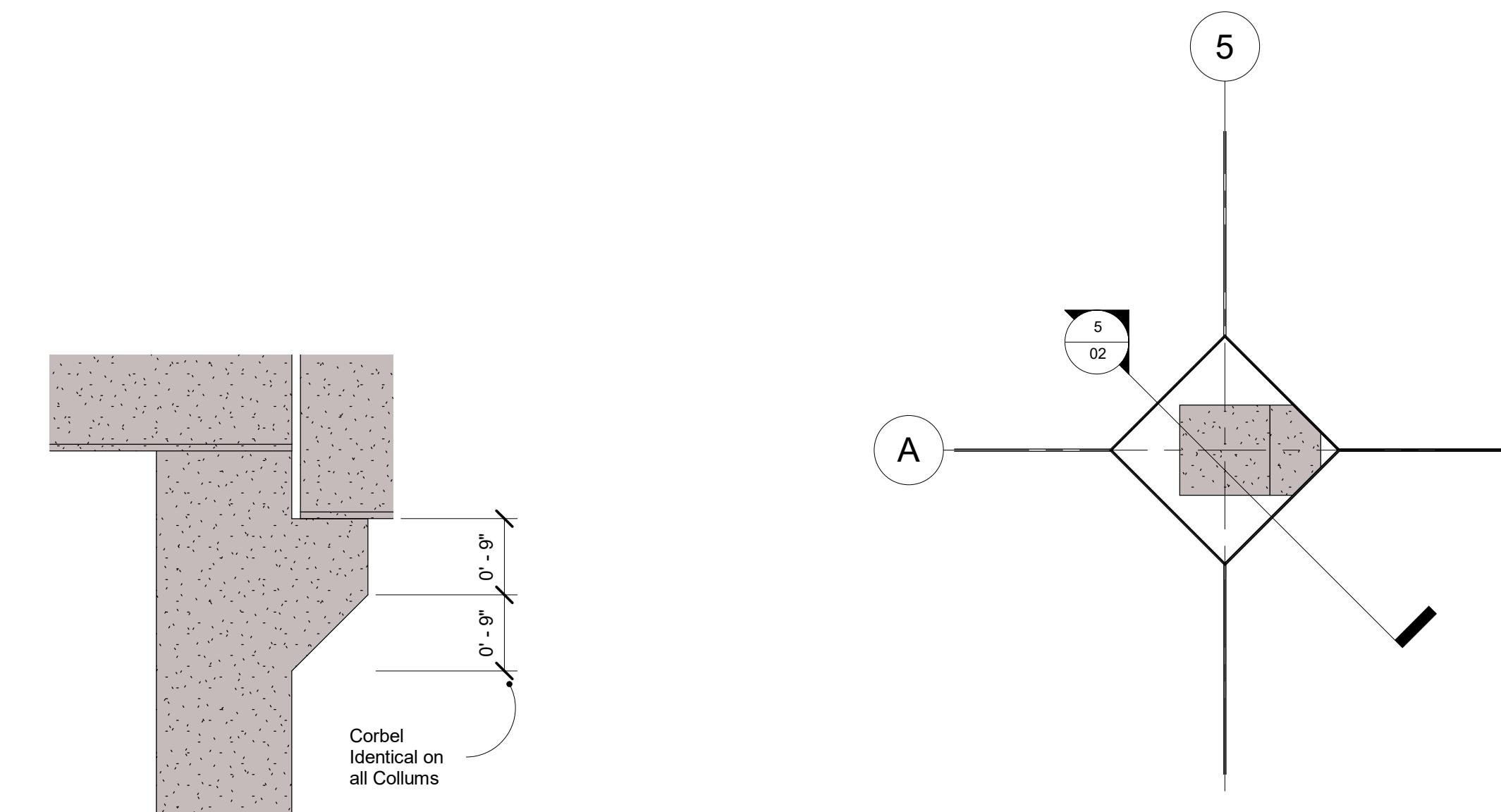
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SECTION 01  
3/16" = 1'-0"

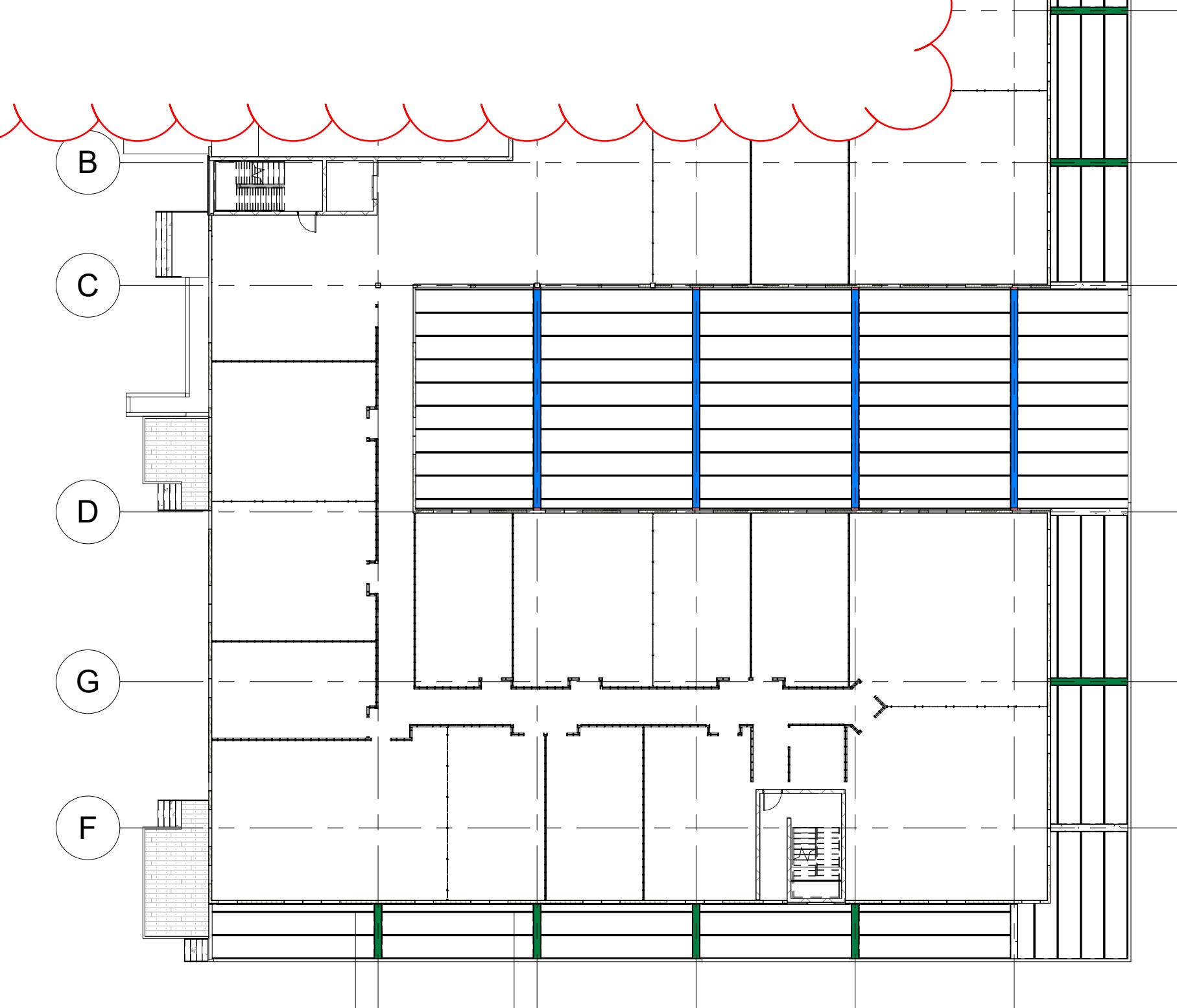
SECTION 02  
3/16" = 1'-0"



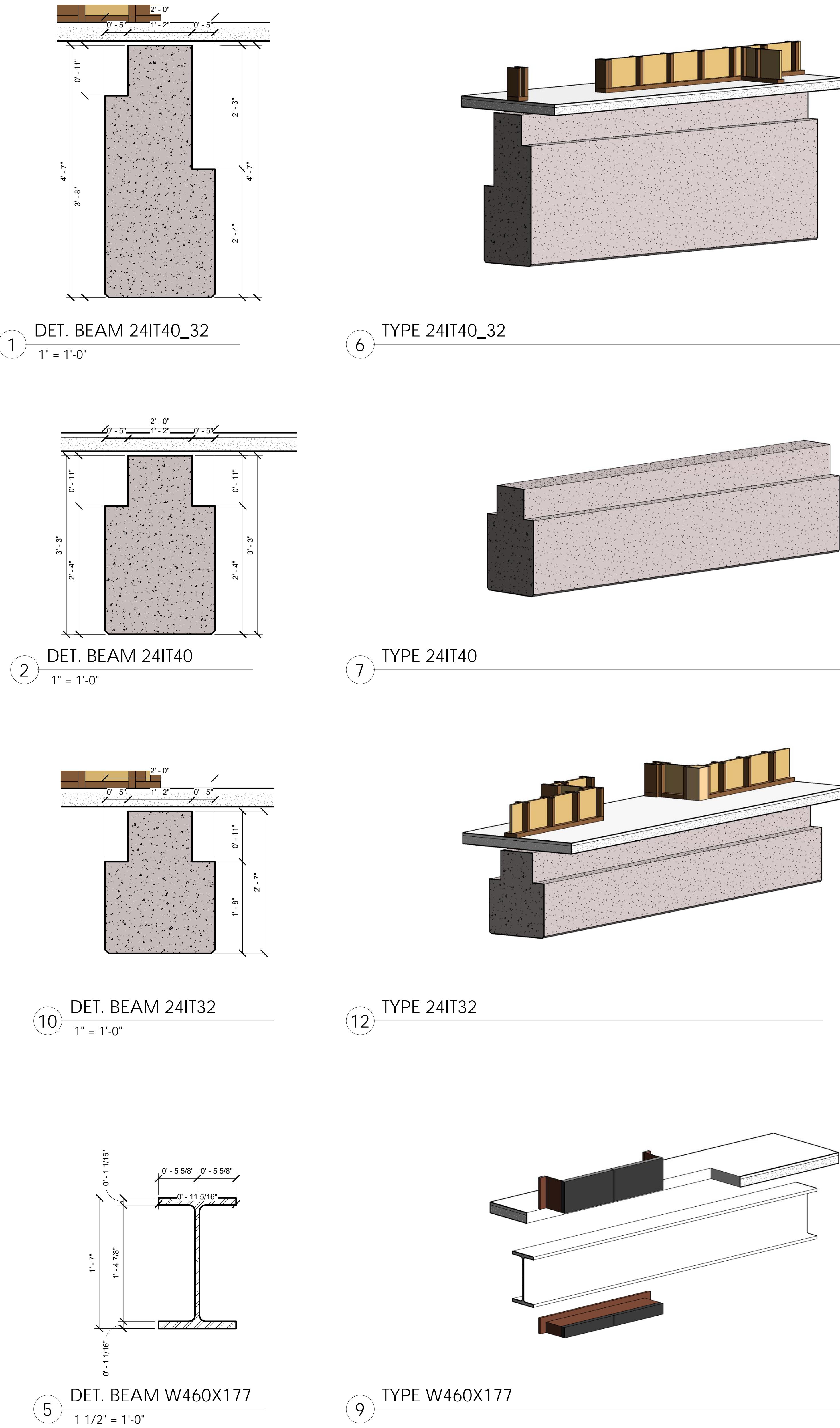
SECTION 02 - DET  
3/4" = 1'-0"

BASMENT - DET. 01  
1/2" = 1'-0"

SECTION 03 - DET  
1/2" = 1'-0"



Date	Description



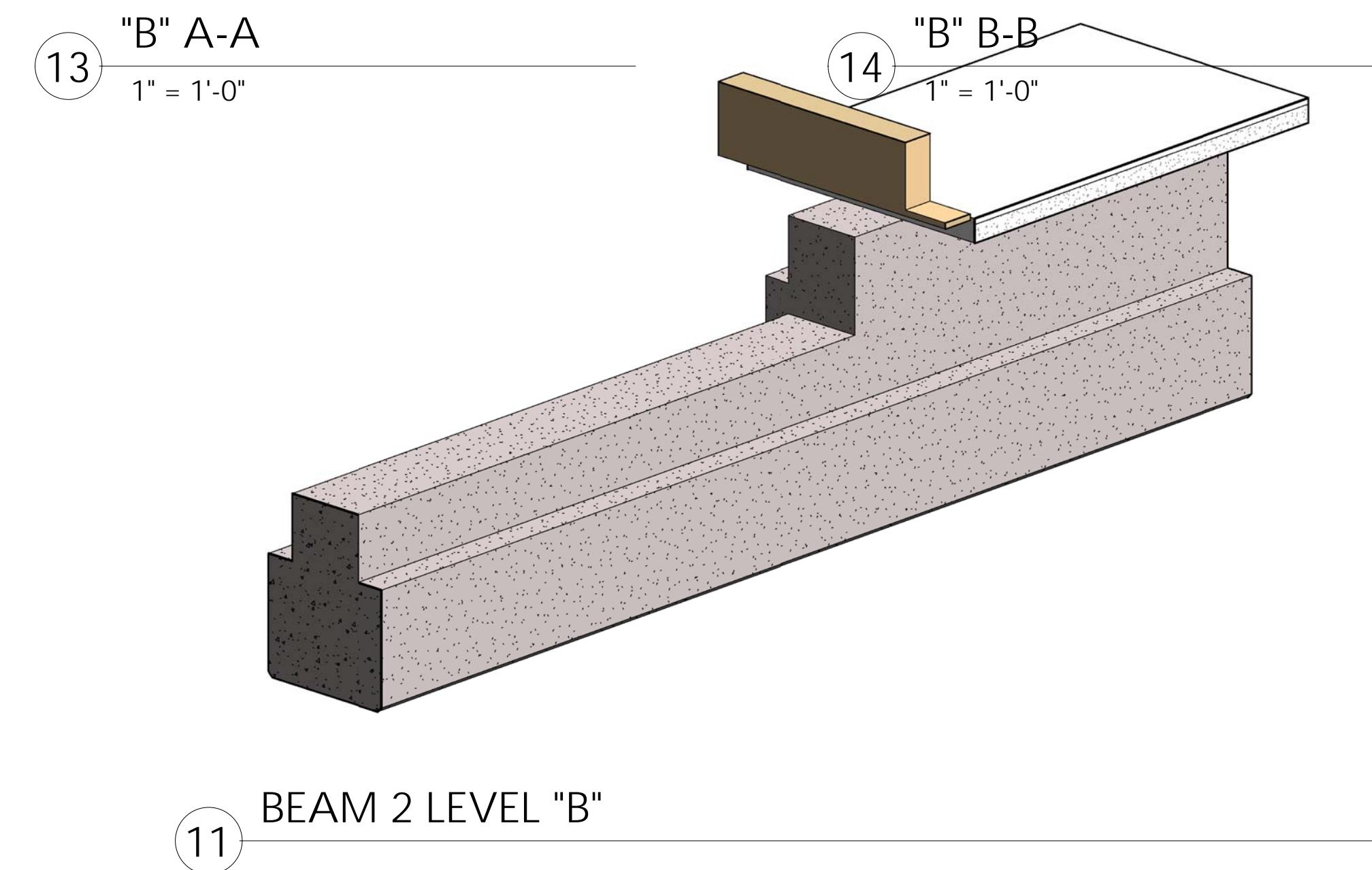
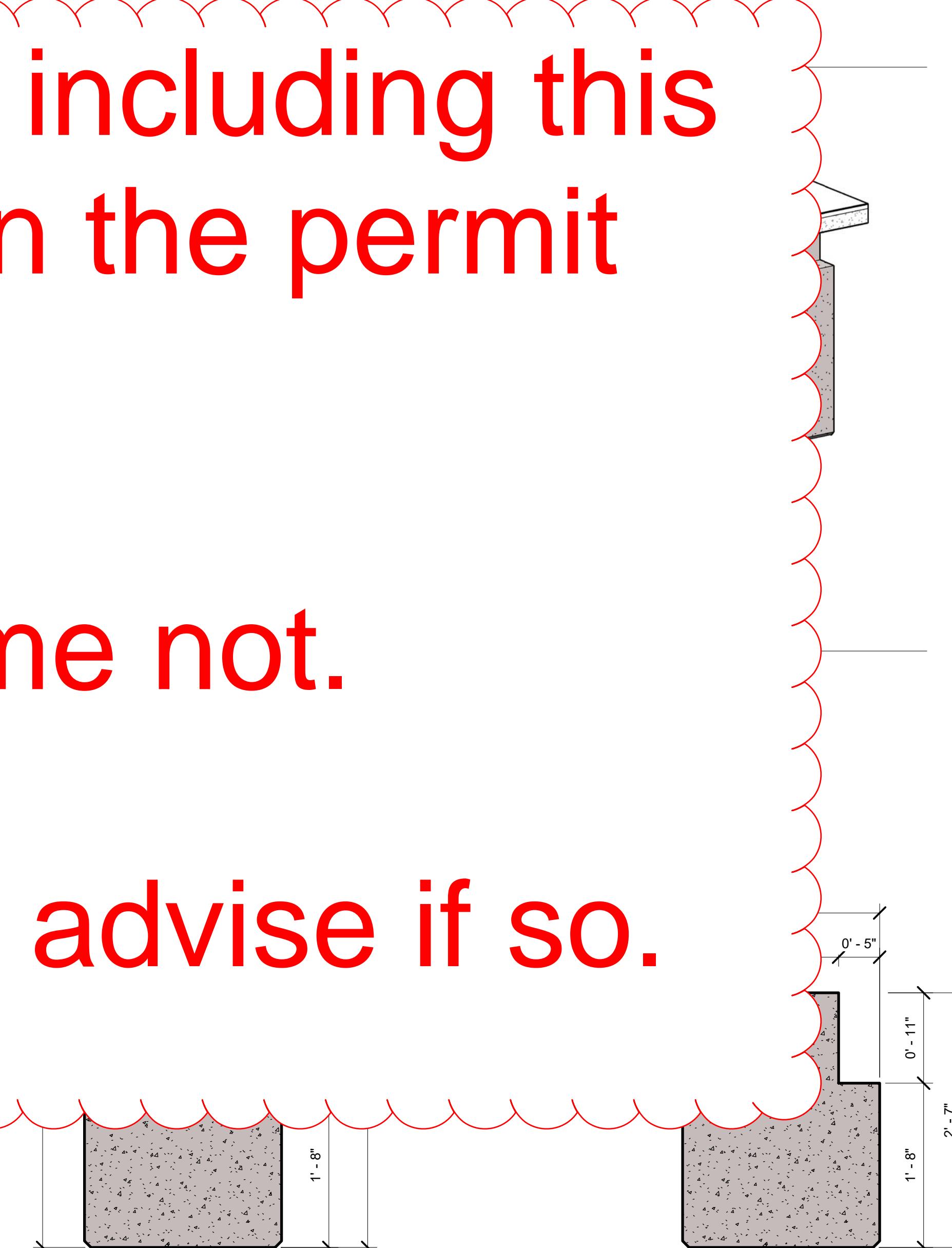
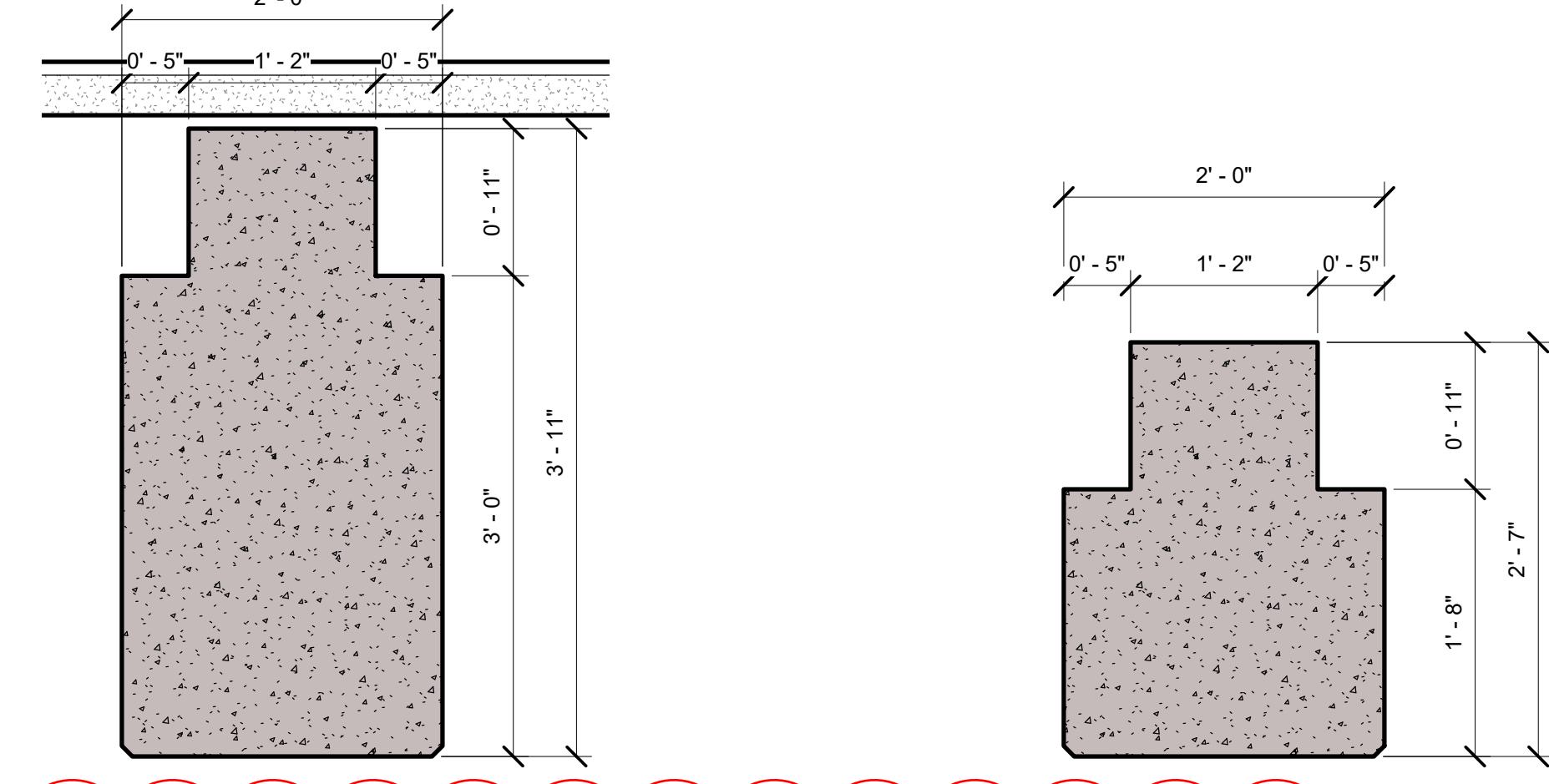
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**HOLLOWCORE SLAB**

COMPLETE OR DEPARTED	HOLLOWCORE TYPE	LENGTH	COUNT	MASS
AL	HEAVY	5' - 4 3/16"	12	4.598 m <sup>3</sup>
AL	HEAVY	18' - 11 7/16"	3	4.264 m <sup>3</sup>
AL	HEAVY	18' - 11 3/4"	33	46.345 m <sup>3</sup>
AL	HEAVY	19' - 0"	6	8.550 m <sup>3</sup>
AL	HEAVY	19' - 0 1/8"	1	1.426 m <sup>3</sup>
AL	HEAVY	19' - 0 3/8"	3	4.282 m <sup>3</sup>
AL	HEAVY	19' - 9"	4	5.925 m <sup>3</sup>
AL	HEAVY	21' - 9 5/8"	4	6.541 m <sup>3</sup>
AL	HEAVY	23' - 9"	4	7.125 m <sup>3</sup>
AL	HEAVY	24' - 8"	22	40.701 m <sup>3</sup>
AL	HEAVY	24' - 8 9/16"	4	7.415 m <sup>3</sup>
AL	HEAVY	25' - 11"	127	246.860 m <sup>3</sup>
AL	HEAVY	26' - 6"	5	9.938 m <sup>3</sup>
AL	HEAVY	27' - 8 7/16"	1	2.078 m <sup>3</sup>
AL	HEAVY	27' - 10"	4	8.350 m <sup>3</sup>
AL	HEAVY	28' - 0"	27	56.701 m <sup>3</sup>
AL	HEAVY	28' - 6 9/16"	3	6.423 m <sup>3</sup>

AL/2	HEAVY	18' - 11"	1	0.480 m <sup>3</sup>
AL/2	HEAVY	18' - 11 7/16"	1	0.384 m <sup>3</sup>
AL/2	HEAVY	19' - 9"	2	0.951 m <sup>3</sup>
AL/2	HEAVY	21' - 9 5/8"	1	1.211 m <sup>3</sup>
AL/2	HEAVY	23' - 9"	2	1.144 m <sup>3</sup>
AL/2	HEAVY	24' - 8 9/16"	1	0.501 m <sup>3</sup>
AL/2	HEAVY	25' - 11"	11	6.336 m <sup>3</sup>
AL/2	HEAVY	26' - 6"	1	0.511 m <sup>3</sup>
AL/2	HEAVY	27' - 10"	2	1.340 m <sup>3</sup>
AL/2	HEAVY	28' - 0"	2	2.120 m <sup>3</sup>

482.498 m<sup>3</sup>
**FOUNDATION**

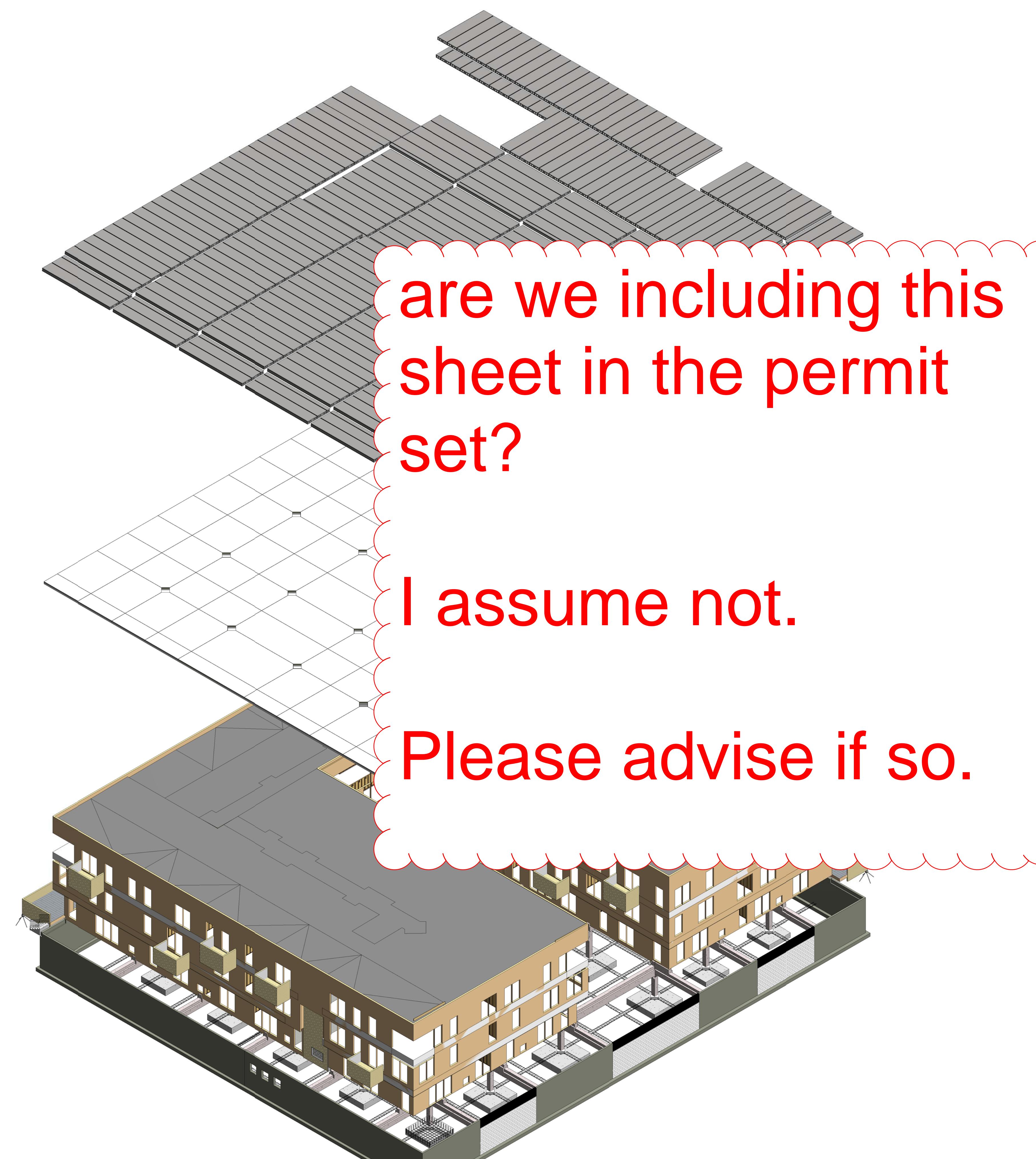
TYPE	LONG	WIDTH	HEIGHT	COUNT	MASS
FT90a	9' - 0"	9' - 0"	1' - 8"	2	7.65 m <sup>3</sup>
FT90b	9' - 0"	9' - 0"	1' - 8"	3	11.47 m <sup>3</sup>
FT96a	9' - 6"	9' - 6"	1' - 8"	1	4.26 m <sup>3</sup>
FT96b	9' - 6"	9' - 6"	1' - 8"	3	12.78 m <sup>3</sup>
FT100	10' - 0"	10' - 0"	2' - 1"	5	29.50 m <sup>3</sup>
FT106	10' - 6"	10' - 6"	2' - 3"	1	7.02 m <sup>3</sup>
FT110a	11' - 0"	11' - 0"	2' - 3"	8	65.25 m <sup>3</sup>
FT110b	11' - 0"	11' - 0"	2' - 1"	2	15.42 m <sup>3</sup>
FT116	11' - 6"	11' - 6"	2' - 1"	4	31.21 m <sup>3</sup>

184.55 m<sup>3</sup>
**STRUCTURAL COLUMN**

POSITION	HEIGHT	MASS
	8' - 4 7/8"	0.15 m <sup>3</sup>
	8' - 4 7/8"	0.15 m <sup>3</sup>
	8' - 4 7/8"	0.15 m <sup>3</sup>
A1	11' - 0"	0.55 m <sup>3</sup>
A2	11' - 0"	0.55 m <sup>3</sup>
A3	11' - 0"	0.55 m <sup>3</sup>
A4	11' - 0"	0.55 m <sup>3</sup>
A5	11' - 0"	0.59 m <sup>3</sup>
B2	11' - 0"	0.62 m <sup>3</sup>
B3	11' - 0"	0.65 m <sup>3</sup>
B4	11' - 0"	0.65 m <sup>3</sup>
B5	11' - 0"	0.65 m <sup>3</sup>
C1	11' - 0"	0.59 m <sup>3</sup>
C2	11' - 0"	0.59 m <sup>3</sup>
C3	11' - 0"	0.59 m <sup>3</sup>
C4	11' - 0"	0.59 m <sup>3</sup>
C5	11' - 0"	0.62 m <sup>3</sup>
D1	11' - 0"	0.59 m <sup>3</sup>
D2	11' - 0"	0.59 m <sup>3</sup>
D3	11' - 0"	0.59 m <sup>3</sup>
D4	11' - 0"	0.59 m <sup>3</sup>
D5	11' - 0"	0.62 m <sup>3</sup>
F1	10' - 4"	0.55 m <sup>3</sup>
F2	10' - 4"	0.55 m <sup>3</sup>
F3	10' - 4"	0.55 m <sup>3</sup>
F4	10' - 4"	0.55 m <sup>3</sup>
F5	10' - 4"	0.58 m <sup>3</sup>
G1	11' - 0"	0.59 m <sup>3</sup>
G2	11' - 0"	0.59 m <sup>3</sup>
G3	11' - 0"	0.59 m <sup>3</sup>
G4	11' - 0"	0.59 m <sup>3</sup>
G5	11' - 0"	0.62 m <sup>3</sup>

17.49 m<sup>3</sup>

Date Description



**DESIGN DATA**

APPLICABLE CODES/STANDARDS:  
....INTERNATIONAL BUILDING CODE - 2016  
....ASCE 7-16 MIN DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE/SEI

STRUCTURAL DESIGN STANDARDS (DESIGN SHALL CONFORM TO THE CURRENT EDITION UNDER THE APPLICABLE CODE):  
....ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY  
....ACI 530/531 BLDG CODE REQUIREMENTS AND SPECS FOR MASONRY STRUCTURES (AND RELATED COMMENTARIES)  
....ANSI/AISC 360-16 SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS  
....AWS D1.1/D1.1M STRUCTURAL WELDING CODE-STEEL

DEFLECTION LIMITS			
MEMBERS	LIVE	SNOW or WIND	DEAD + LIVE or SNOW
ROOF MEMBERS			
SUPPORTING GYPSUM BOARD CEILINGS	L/360	L/360	L/240
SUPPORTING FLEXIBLE CEILINGS	L/360	L/360	L/240
NOT SUPPORTING CEILING	L/240	L/240	L/180
SUPPORTING RIGID MATERIALS (BRICK, MASONRY, ETC.)	L/600	L/600	L/600
FLOOR MEMBERS			
SUPPORTING RIGID MATERIALS (BRICK, MASONRY, ETC.)	L/600	L/600	L/600
SUPPORTING GYPSUM BOARD CEILINGS	L/540	N/A	L/360
SUPPORTING FLEXIBLE MATERIALS	L/540	N/A	L/360
LINTEL/HEADER/BEAM MEMBERS			
SUPPORTING RIGID MATERIALS (BRICK, MASONRY, ETC.)	L/600	L/600	L/600
SUPPORTING FLEXIBLE MATERIALS (EIFS, SIDING, ETC.)	L/360	L/360	L/240
EXTERIOR WALLS			
WITH RIGID FINISHES (BRICK, MASONRY, ETC.)	N/A	L/600	N/A
WITH FLEXIBLE FINISHES (EIFS, SIDING, ETC.)	N/A	L/360	N/A

**BUILDING DESIGN LOADS/CRITERIA**

DESIGN LIVE LOADS:  
....FLOOR FRAMING (RETAIL, OFFICE, RESTAURANT, RECREATIONAL) 100 psf

....FLOOR FRAMING (RESIDENTIAL AREAS) 40 psf

....STAIRWAYS, EXITS 100 psf

....BALCONIES 40 psf

....PRIVATE GARAGES (PASSENGER VEHICLES ONLY) 40 psf

....INTERIOR PARTITION WALLS (UNIFORMLY DISTRIBUTED WEIGHT) 15 psf

....CORRIDORS FIRST FLOOR 100 psf

....CORRIDORS 2nd & 3rd FLOORS 40 psf

....CORNICES 60 psf

SNOW LOADS & DESIGN DATA:  
....DESIGN SNOW LOAD 42 psf (BALANCED SNOW LOAD)

....FLAT ROOF SNOW LOAD (P) =  $(0.7C_e C_l s^* P_g)$  42 psf

....SNOW EXPOSURE FACTOR (Ce) 1.0

....SNOW LOAD IMPORTANCE FACTOR (Is) 1.0

....ROOF THERMAL FACTOR (Ci) 1.0

....GROUND SNOW (Pg) 60 psf

....SLOPED ROOF FACTOR (Cs) 1.0

WIND DESIGN DATA:  
....WIND IMPORTANCE FACTOR (Iw) 1.0

....RISK CATEGORY II

....BASIC WIND SPEED (3-SECOND GUST, ULTIMATE) 115 MPH

....BASIC WIND SPEED (3-SECOND GUST, NOMINAL) 90 MPH

....MEAN ROOF HEIGHT 33 FT

....WIND EXPOSURE CATEGORY B

....WIND EXPOSURE CLASSIFICATION ENCLOSED

....VELOCITY EXPOSURE COEFFICIENT Kz 0.720

....TOPOGRAPHIC FACTOR (Kt) 1.0

....DESIGN PROCEDURE METHOD 1 (SIMPLIFIED PROCEDURE)

NET PRESSURE COEFFICIENTS $C_{net}$		
AREA	$C_{net}$ INTERNAL PRESSURE	$C_{net}$ INTERNAL PRESSURE
WINDWARD WALL	0.43	0.73
LEEWARD WALL	-0.51	-0.21
SIDEWALL	-0.66	-0.35
PARAPET WINDWARD WALL	1.28	
PARAPET LEEWARD WALL	-0.85	
FLAT ROOF	-1.09	-0.79

DESIGN WIND PRESSURES $P_{net}$		
AREA	$P_{net}$ INTERNAL PRESSURE	$P_{net}$ INTERNAL PRESSURE
WINDWARD WALL	10.5 psf	17.8 psf
LEEWARD WALL	-12.4 psf	-5.1 psf
SIDEWALL	-16.1 psf	-8.5 psf
PARAPET WINDWARD WALL	31.2 psf	
PARAPET LEEWARD WALL	-20.7 psf	
FLAT ROOF	-26.6 psf	-19.3 psf

EARTHQUAKE DESIGN DATA:  
....OCCUPANCY CATEGORY II  
....SEISMIC IMPORTANCE FACTOR (Ie) 1  
....MAPPED SPECTRAL ACCELERATIONS AT SHORT PERIODS (Ss) 0.045 g  
....MAPPED SPECTRAL ACCELERATIONS AT (1) SECOND PERIODS (S1) 0.038 g  
....SITE CLASSIFICATION B  
....SITE COEFFICIENT (Ps) 1.0  
....SITE COEFFICIENT (Fv) 1.0  
....DESIGN SPECTRAL RESPONSE COEFFICIENT AT SHORT PERIODS (Sds) 0.030 g  
....DESIGN SPECTRAL RESPONSE COEFFICIENT AT (1) SECOND PERIODS (Sd1) 0.025 g  
....SEISMIC DESIGN CATEGORY A  
....BASIC SEISMIC-FORCE-RESISTING SYSTEM LIGHT FRAME WOOD WALLS WITH STRUCTURAL WOOD SHEAR PANELS EQUIVALENT LATERAL FORCE ANALYSIS  
....ANALYSIS PROCEDURE FOR SEISMIC DESIGN EQUIVALENT LATERAL FORCE ANALYSIS

SOIL DESIGN VALUES:  
....SOIL UNIT WEIGHT 125 PCF (ASSUMED)  
....LATERAL EARTH PRESSURE  
....AT-REST (BASEMENT WALLS) 62.5 PSF/FT OF DEPTH (ASSUMED)  
....PASSIVE 340 PSF (ASSUMED)  
....COEFFICIENT OF SLIDING FRICTION 0.30 (ASSUMED)  
....SUBGRADE MODULUS 260 PCI (ASSUMED)  
....ALLOWABLE SOIL BEARING PRESSURE 3000 PSF

REFER TO SOILS REPORT NO. 17002 DATED 2/10/2017 PREPARED BY ITCO ALLIED ENGINEERING CO. FOR DESCRIPTION OF SOIL CONDITIONS, GEOTECHNICAL RECOMMENDATIONS, AND DESIGN VALUES

**FOUNDATION AND EARTHWORK**

- ALL EXTERIOR FOOTINGS MUST BEAR BELOW LOCAL FROST LINE RELATIVE TO ADJACENT FINISH EXTERIOR GRADE.
- DO NOT PLACE ANY FOOTINGS ON FROZEN SUBGRADE.
- BACK FILLING SHALL BE DONE SIMULTANEOUSLY ON BOTH SIDES OF FOUNDATION WALLS.
- DO NOT PLACE BACK FILL AGAINST BASEMENT WALLS UNTIL THE TOP AND BOTTOM OF THE WALL ARE ADEQUATELY BRACED BY THE SLAB ON GRADE AND THE FLOOR FRAMING AT THE TOP OF THE WALL.
- REMOVE ANY EXISTING CONCRETE 2'-0" BELOW NEW CONCRETE FOOTINGS AND SLABS ON GRADE, UNLESS NOTED OTHERWISE.
- SHORING/OR UNDERPINNING SHALL BE DESIGNED TO LIMIT HORIZONTAL AND VERTICAL MOVEMENT OF EXISTING CONSTRUCTION TO 1/4" MAXIMUM IN ANY DIRECTION.
- CENTER PIER AND COLUMN FOOTINGS ON COLUMN CENTERLINES AND WALL FOOTINGS ON WALL CENTERLINES UNLESS SPECIFICALLY NOTED OTHERWISE.
- ALL BACK FILL WITHIN 3'-0" OF RETAINING WALLS AND BASEMENT WALLS SHALL BE FREE DRAINING GRANULAR MATERIAL APPROVED BY A SOILS ENGINEER AND COMPACTED TO 90% STANDARD PROCTOR.
- TOP OF FOOTING ELEVATIONS SHOWN ON THESE CONSTRUCTION DOCUMENTS REPRESENT MINIMUM FOOTING DEPTHS FOR FROST PROTECTION AND BEST JUDGMENT OF A SUITABLE BEARING STRATUM. ACTUAL GRADE CONDITIONS AND SUITABLE BEARING STRATUM MUST BE VERIFIED BY THE CONTRACTOR AND A SOILS ENGINEER AT THE TIME OF EXCAVATION.

10. FOOTING EXCAVATIONS MUST EXTEND TO COMPETENT BEARING MATERIAL. CONTRACTOR SHALL HIRE A SOILS ENGINEER TO FIELD VERIFY NET ALLOWABLE SOIL BEARING CAPACITY STATED ON THESE CONSTRUCTION DOCUMENTS AND IN GEOTECHNICAL REPORT FOR THIS PROJECT. THE SUITABLE BEARING STRATUM DOES NOT EXIST AT FOOTING ELEVATION STATED ON CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL BE EXTENDED ANOTHER FOOTING DEPTH IF NECESSARY. PLACE CONCRETE FOOTINGS OR EXTEND FOOTINGS DOWN TO SUITABLE BEARING STRATUM. ENGINEERED FILL BELOW SLABS ON GRADE AND FOOTINGS SHALL BE FREE DRAINING GRANULAR MATERIAL COMPAKTED TO 95% MODIFIED PROCTOR AND PLACED PER THE SOIL ENGINEERS RECOMMENDATIONS. ALL FIELD CONDITIONS THAT WILL AFFECT DESIGN AS PRESENTED MUST BE COORDINATED WITH STRUCTURAL ENGINEER.

11. REFER TO DESIGN DATA FOR DESCRIPTION OF SOIL CONDITIONS, GEOTECHNICAL RECOMMENDATIONS, AND DESIGN VALUES.

**CONTINUITY:**

ALL REINFORCING SHALL BE CONTINUOUS UNLESS NOTED OTHERWISE. CONTINUITY AT CORNERS AND INTERSECTIONS SHALL BE ACHIEVED USING CORNER BARS AND CONTACT LAP SPLICES. SEE TYPICAL DETAIL. CONTINUITY AT OTHER LOCATIONS MAY BE ACHIEVED USING CONTACT LAP SPLICES SHOWN ON APPROVED SHOP DRAWINGS. LOCATION OF LAP SPLICES SHALL BE SHOWN ON THE SHOP DRAWINGS. UNLESS NOTED OTHERWISE, THE FOLLOWING LAP SPLICES SHALL BE USED: (ALL LAP SPLICES ARE CLASS B SPLICES)

LOCATION:	#3	#4	#5	#6	#7	#8	#9	#10	#11
3,000 & 3,500 PSI CONCRETE:									
- TOP BARS (*)	21"	19"	35"	46"	71"	93"	118"	149"	184"
- OTHER BARS	16"	22"	27"	35"	55"	71"	91"	115"	142"
4,000 & 4,500 PSI CONCRETE:									
- TOP BARS (*)	16"	19"	25"	36"	61"	80"	102"	129"	159"
- OTHER BARS	16"	16"	19"	28"	47"	62"	78"	99"	123"

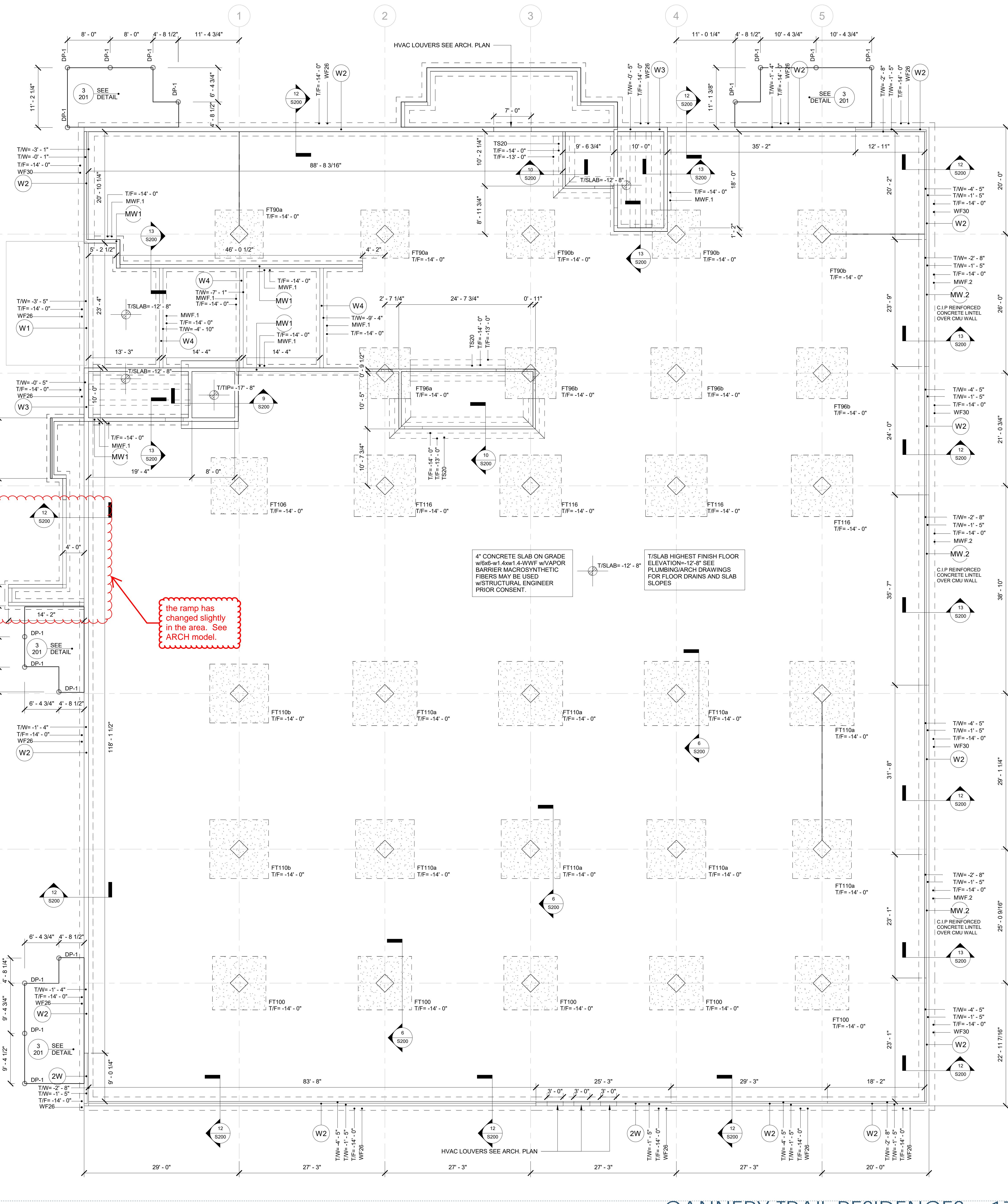
(\* TOP BARS ARE HORIZONTAL REINFORCING WHERE MORE THAN 12" OF CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCING.

(\*\*) FOR #4 EPOXY COATED REBAR, USE 27" SPLICE LENGTH AT 3,000 AND 3,500 PSI CONCRETE AND 19" AT 4,000 AND 4,500 PSI.

MECHANICAL CONNECTIONS MAY BE USED IN LIEU OF LAP SPLICES PROVIDED APPROVAL IS OBTAINED FROM THE ARCHITECT/ENGINEER. CONNECTIONS SHALL DEVELOP IN TENSION 125 PERCENT OF THE SPECIFIED YIELD STRENGTH OF THE REINFORCING. MECHANICAL CONNECTIONS SHALL SHOWN ON THE SHOP DRAWINGS AND BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND THE PRODUCT'S ICC-ES REPORT. SUBMIT THE PRODUCT'S ICC-ES REPORT FOR MECHANICAL SPLICE PRODUCTS WITH SHOP DRAWINGS.

Date	Description


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#### MASONRY WALL REINFORCING SCHEDULE

MARK	WALL THICKNESS	VERTICAL REINFORCEMENT & SPACING	REINFORCEMENT LOCATION IN CELL CENTER
WV.1	8"	#5 AT 48" o/c MAX	
WV.2	8"	#6 AT 16" o/c MAX	INSIDE FACE

MASONRY WALL REINFORCEMENT SCHEDULE NOTES:  
1. GROUT CONCRETE MASONRY UNITS SOLID FULL HEIGHT OF BUILDING AT REINFORCEMENT LOCATIONS.  
2. USE 1/2" DIA. HOT-DIPPED GALVANIZED STEEL REINFORCEMENT.  
3. PROVIDE 1/2" C.R.C. MASONRY UNIT WALL REINFORCING ABOVE AND BELOW ALL MASONRY OPENINGS: EXTEND LARGE OF 24" OR 40 BAR DIA.  
4. REFER TO STRUCTURAL NOTES SHEET FOR LAPS IN STEEL REINFORCEMENT.  
5. PROVIDE STANDARD (W1) HORIZONTAL JOINT REINFORCING AT 10' ON CENTER VERTICALLY (8' ON CENTER IN PARAPET WALLS) UNO.  
6. MASONRY FIREWALL CONSTRUCTION ASSUMES MASONRY BLOCKS COMPRISED OF LIMESTONE.

#### MASONRY WALL FOOTING SCHEDULE

MARK	WIDTH	THICKNESS	LONGITUDINAL
MWF.1	2'-0"	1'-0"	(2) #5
MWF.2	3'-0"	1'-2"	(3) #5

MASONRY WALL FOOTING SCHEDULE:  
1. REFER TO STRUCTURAL NOTES SHEET FOR LAPS IN STEEL REINFORCEMENT.  
2. REFER TO FOUNDATION PLAN FOR TOP OF FOOTING ELEVATIONS.  
3. ALL FOOTING EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE

#### THICKENED SLAB SCHEDULE

MARK	DIMENSIONS	REINFORCEMENT	REMARKS
TS20	2'-0" (X) 1'-0"	(2) #5	THICKENED SLAB, REFER TO 11/

THICKENED SLAB SCHEDULE NOTES:  
1. REFER TO STRUCTURAL NOTES SHEET FOR LAPS IN STEEL REINFORCEMENT.  
2. REFER TO FOUNDATION PLAN FOR TOP OF FOOTING ELEVATIONS.  
3. ALL FOOTING EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE

#### WALL FOOTING SCHEDULE

MARK	DIMENSIONS		REINFORCEMENT	
	WIDTH	THICKNESS	LONGITUDINAL	TRANSVERSE
WF26	2'-6"	1'-2"	(3) #5	#5's AT 12" BOTTOM FACE
WF30	3'-0"	1'-2"	(3) #5	#5's AT 12" BOTTOM FACE

COLUMN FOOTING SCHEDULE NOTES:  
1. REFER TO STRUCTURAL NOTES SHEET FOR MINIMUM COVER REQUIREMENTS.  
2. REFER TO FOUNDATION PLAN FOR TOP OF FOOTING ELEVATIONS.  
3. ALL FOOTING EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE  
4. ALL LAPS IN STEEL REINFORCING SHALL BE CLASS "B" LAP SPLICES UNLESS NOTED OTHERWISE.

#### COLUMN FOOTING SCHEDULE

MARK	W	L	D	BOTTOM REINFORCING	COLUMNS
	LONG	SHORT			
FT90a	9'-0"	9'-0"	1'-8"	(10) #7	(10) A1 A2
FT90b	9'-0"	9'-0"	1'-8"	(10) #8	A3 A4 A5
FT96a	9'-6"	9'-6"	1'-8"	(10) #7	B2
FT96b	9'-6"	9'-6"	1'-8"	(10) #8	B3 B4 B5
FT100	10'-0"	10'-0"	2'-1"	(11) #8	F1 F2 F3 F4 F5
FT106	10'-6"	10'-6"	2'-3"	(11) #8	C1
FT110a	11"-0"	11"-0"	2'-1"	(12) #8	G2 G3 G4 G5
FT110b	11"-0"	11"-0"	2'-3"	(12) #8	D1 G1
FT116	11"-6"	11"-6"	2'-1"	(12) #8	C2 C3 C4 C5
FT120	12'-0"	12'-0"	2'-3"	(13) #8	D2 D3 D4 D5

COLUMN FOOTING SCHEDULE:  
1. REFER TO STRUCTURAL NOTES SHEET FOR LAPS IN STEEL REINFORCEMENT.  
2. REFER TO FOUNDATION PLAN FOR TOP OF FOOTING ELEVATIONS.  
3. ALL FOOTING EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE

#### CONCRETE WALL REINFORCING SCHEDULE

MARK	TYPE	THICKNESS	REINFORCEMENT	REMARKS
			VERTICAL	HORIZONTAL
W1	CONCRETE	10"	5#'s AT 18" o.c.	Inside face
W2	CONCRETE	10"	5#'s AT 12" o.c.	Inside face
W3	CONCRETE	10"	6#'s AT 12" o.c.	Inside face
W4	CONCRETE	8"	4#'s AT 12" o.c.	Centered in wall thickness

CONCRETE WALL REINFORCING SCHEDULE NOTES:  
1. REFER TO STRUCTURAL NOTES SHEET FOR LAPS IN STEEL REINFORCEMENT.  
2. COORDINATE AND VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND EXIST. CONDITIONS

Date	Description
07.08.2019	Footing and Foundation Plan Permit
08.15.2019	75% CD Set

S100  
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**CAPITAL GROUP**  
Developer: W Capital Group  
tyler@wcapitalgroup.com | 800.345.6456

**OpeningDesign**  
Architect: OpeningDesign  
316 Washington Ave | Suite 675  
Madison, WI 53703  
ryan@openingdesign.com | 715.425.6377

**ROYAL CONSTRUCTION**  
General Contractor: ROYAL CONSTRUCTION  
3653 Greenway Street | Eau Claire, WI 54701  
jim@royalbuilt.com | 715.225.6377

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Civil Engineer: CEDAR CORPORATION  
604 Wilson Avenue | Menomonie, WI 54751  
kevin.oum@cedarcorp.com | 715.235.9081

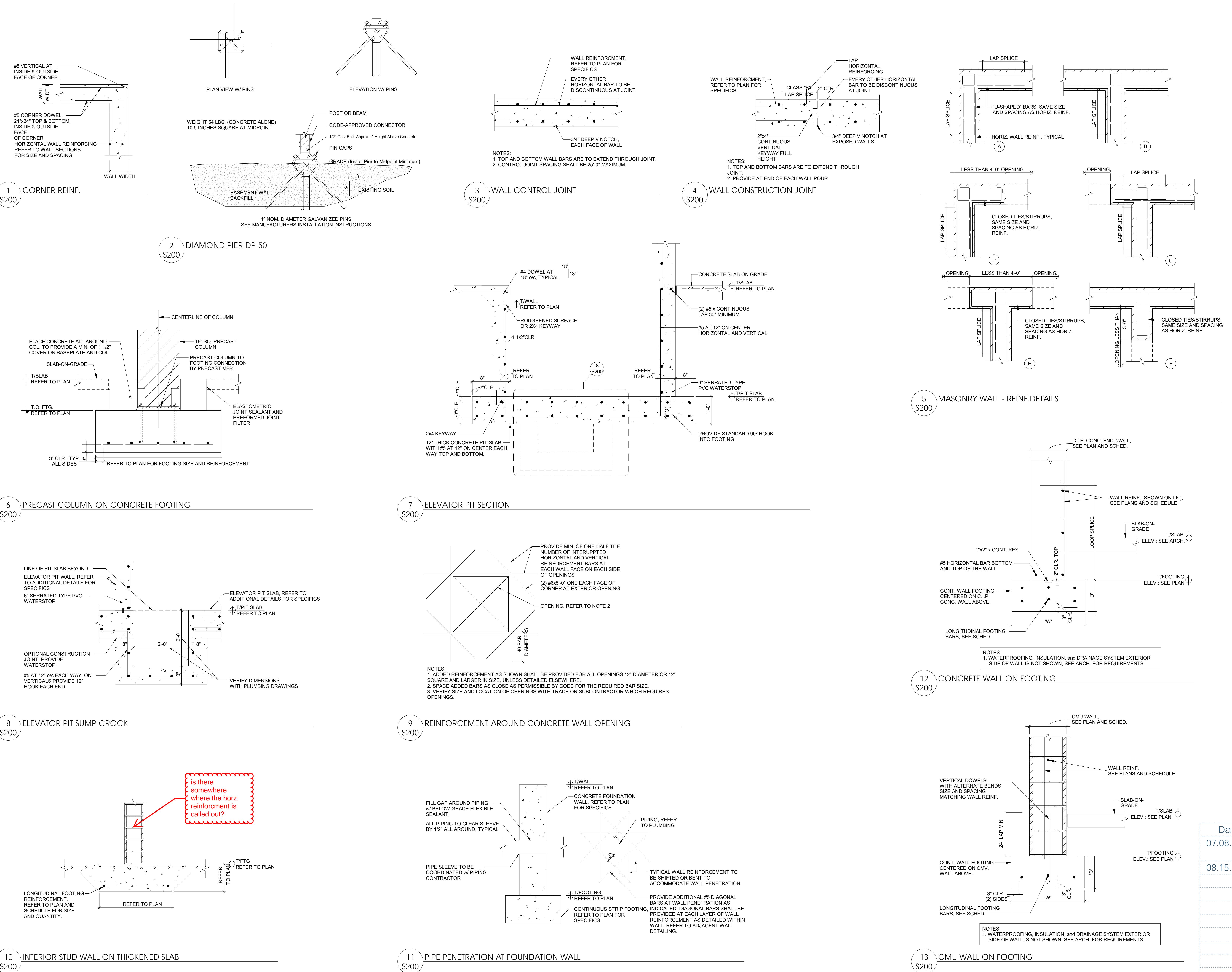
**X Engineering**  
Structural Engineer: Structural Engineering  
Calle Apolonia Morales, 628036 Madrid,  
l.pereztato@xengineering.xyz | +34 610 56 26 37

**Innovation Engineering Services Incorporated**  
Structural Engineer: Structural Engineering  
4729 Dale-Curtain Dr. McFarland, WI 53558  
kfrey@innovationbuilt.com

**Hovland's Heating - Ventilation - Air Conditioning**  
Mechanical Engineer: HOVLAND'S HVAC  
10954 E. Melby Street | Chippewa Falls, WI 54729  
jhansen@hovlands-inc.com | 715.552.5595

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Electrical Engineer: PRISM DESIGN ELECTRICAL CONSULTANTS INC  
1640 3rd St Rd 85 | Monroe, WI 54756  
bhallgren@prismdesign-electrical.com | 715.797.0602

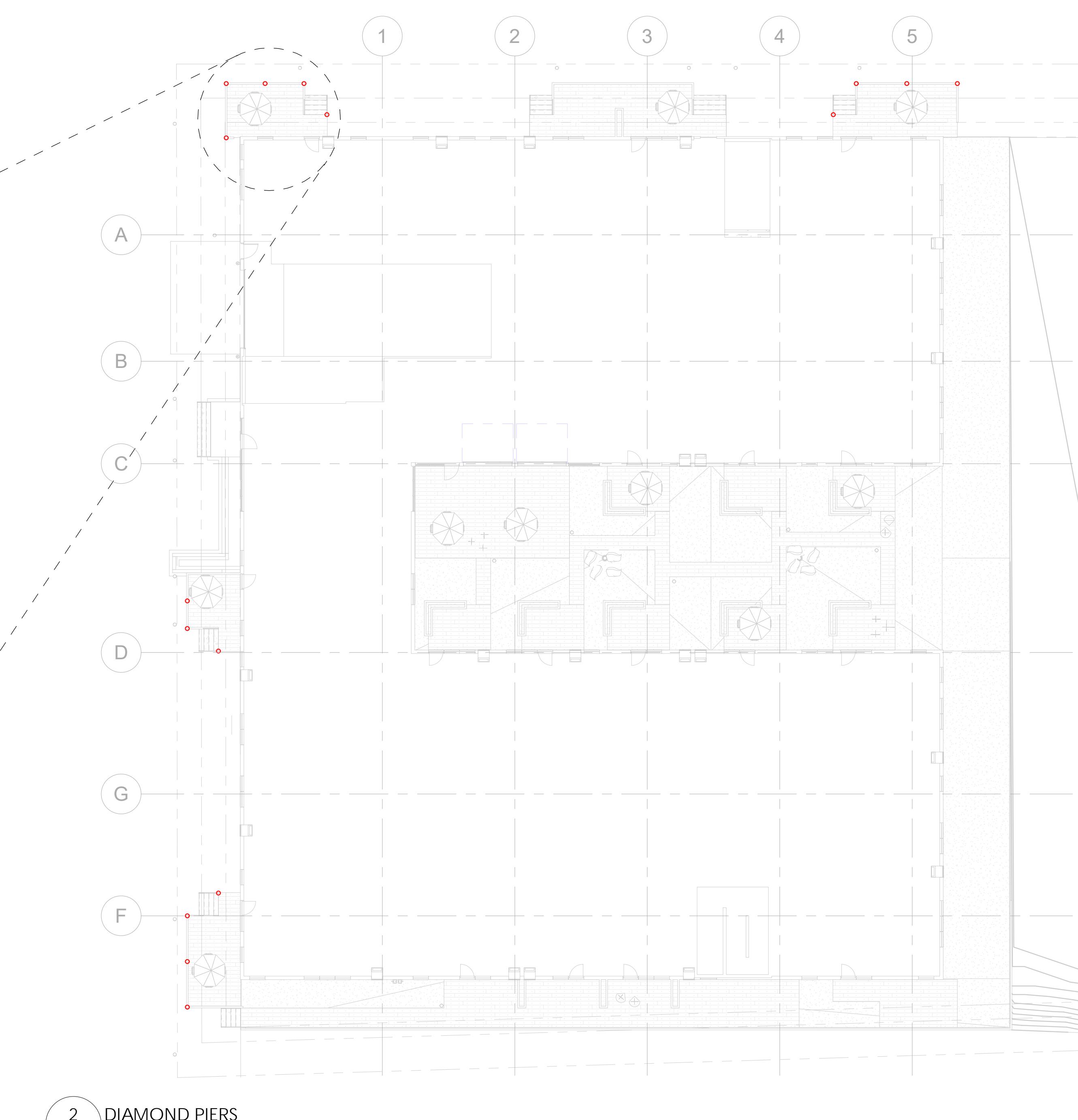
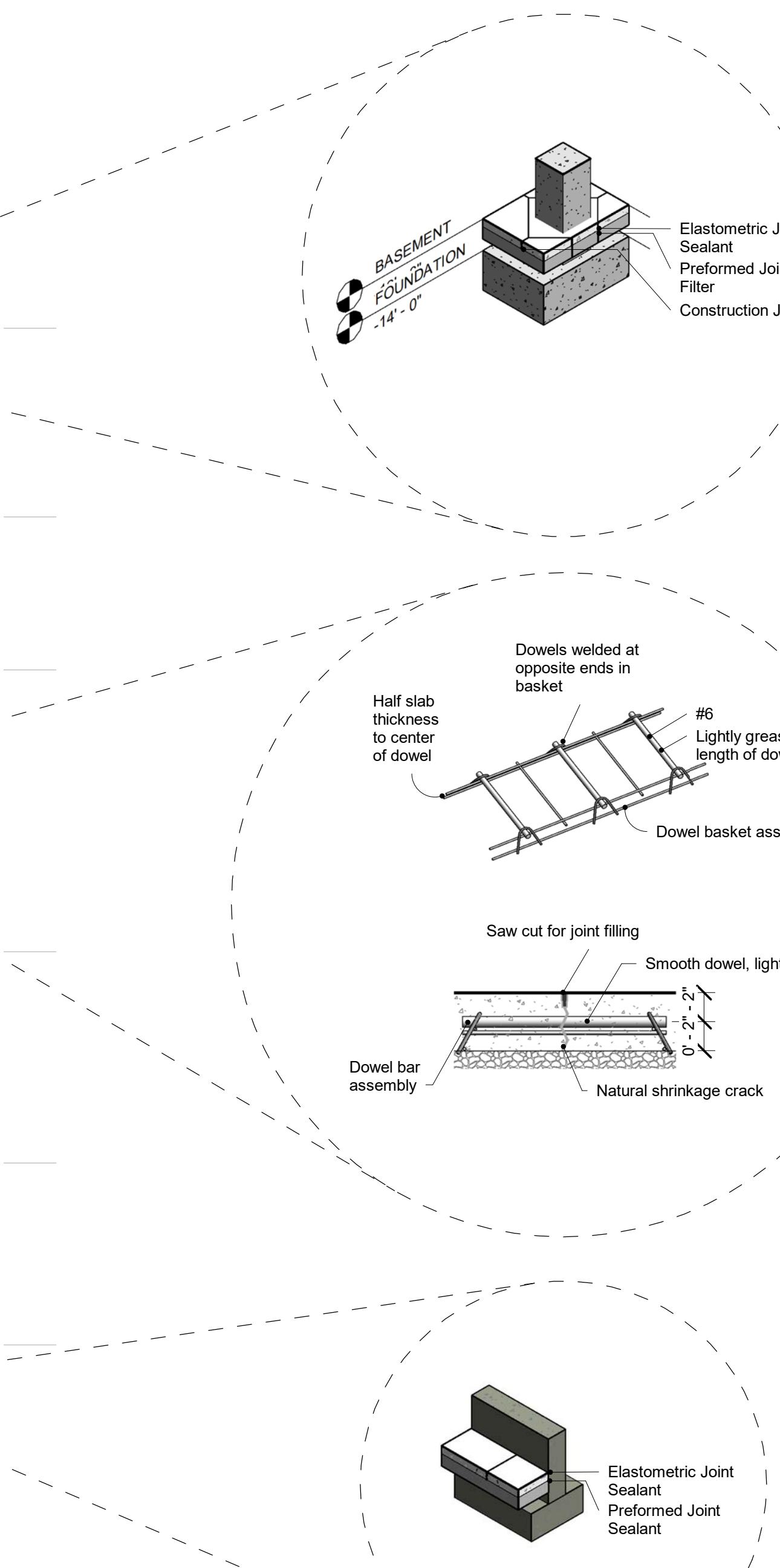
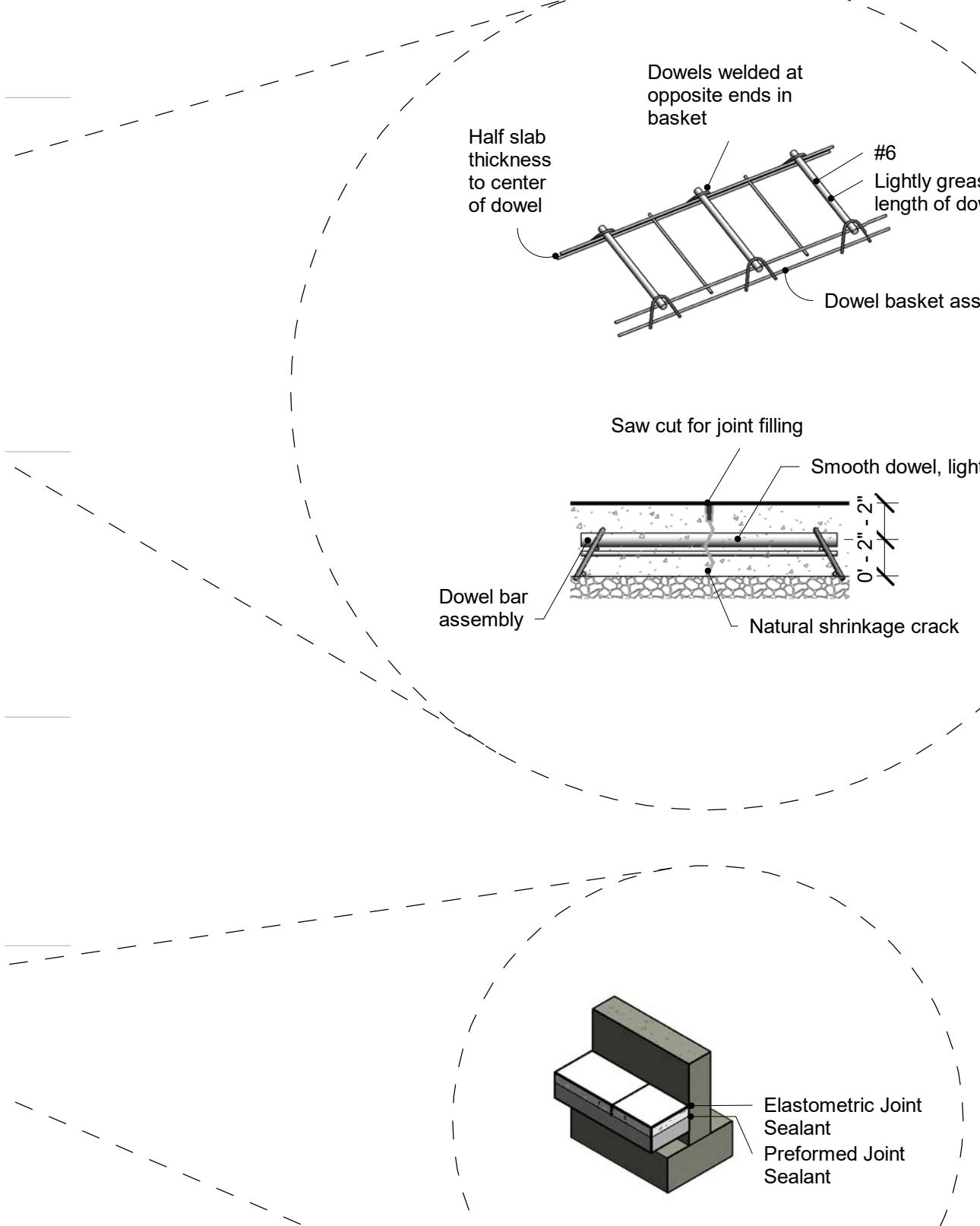
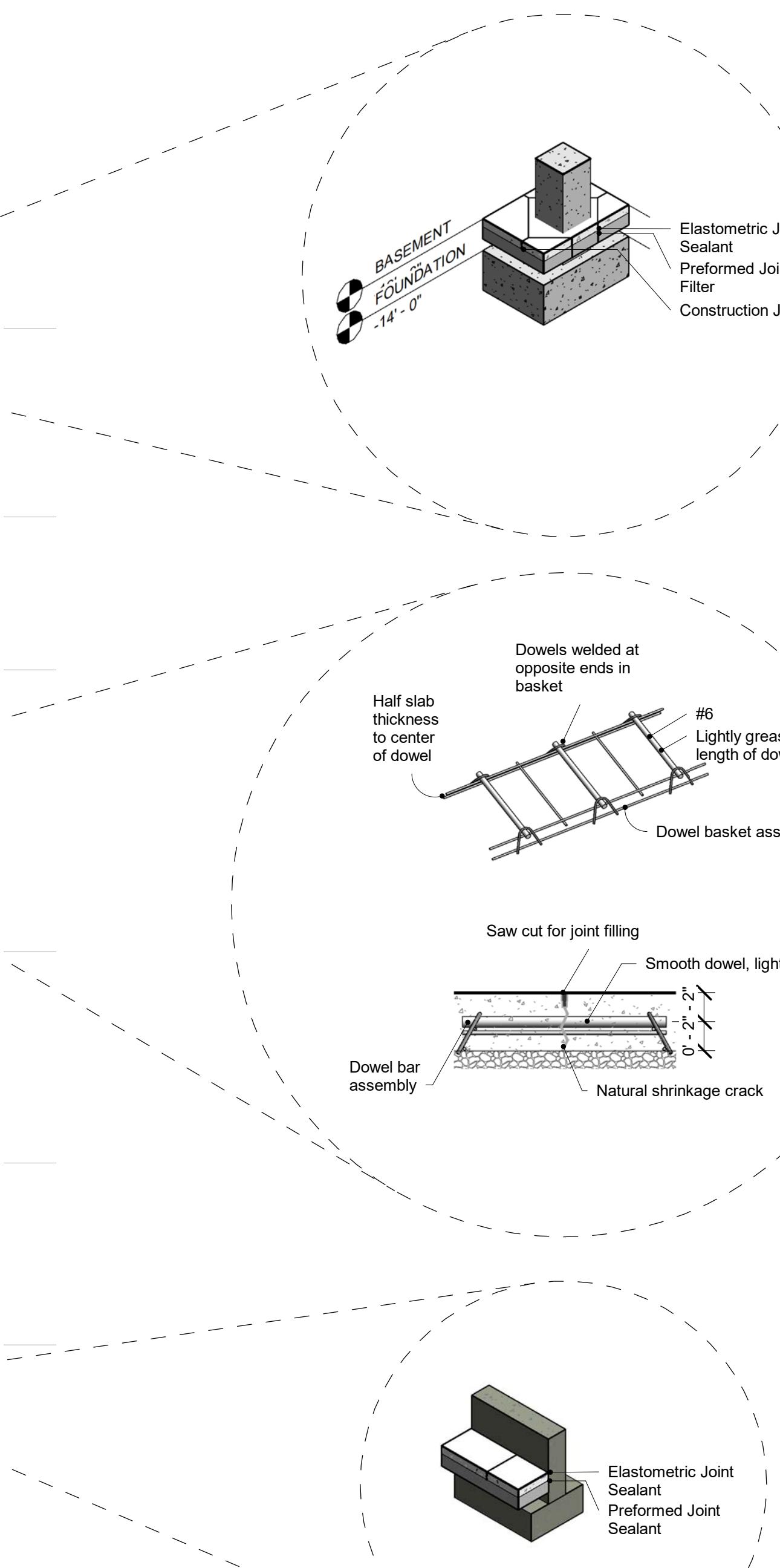
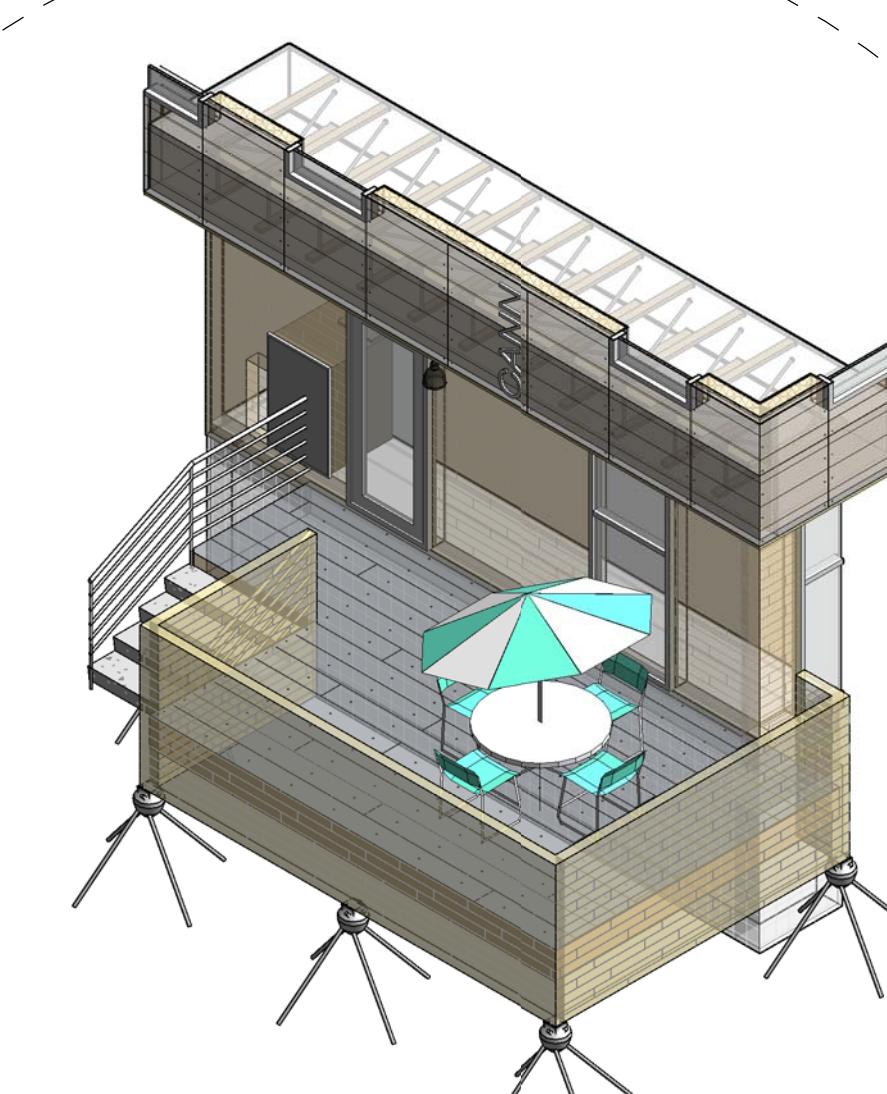
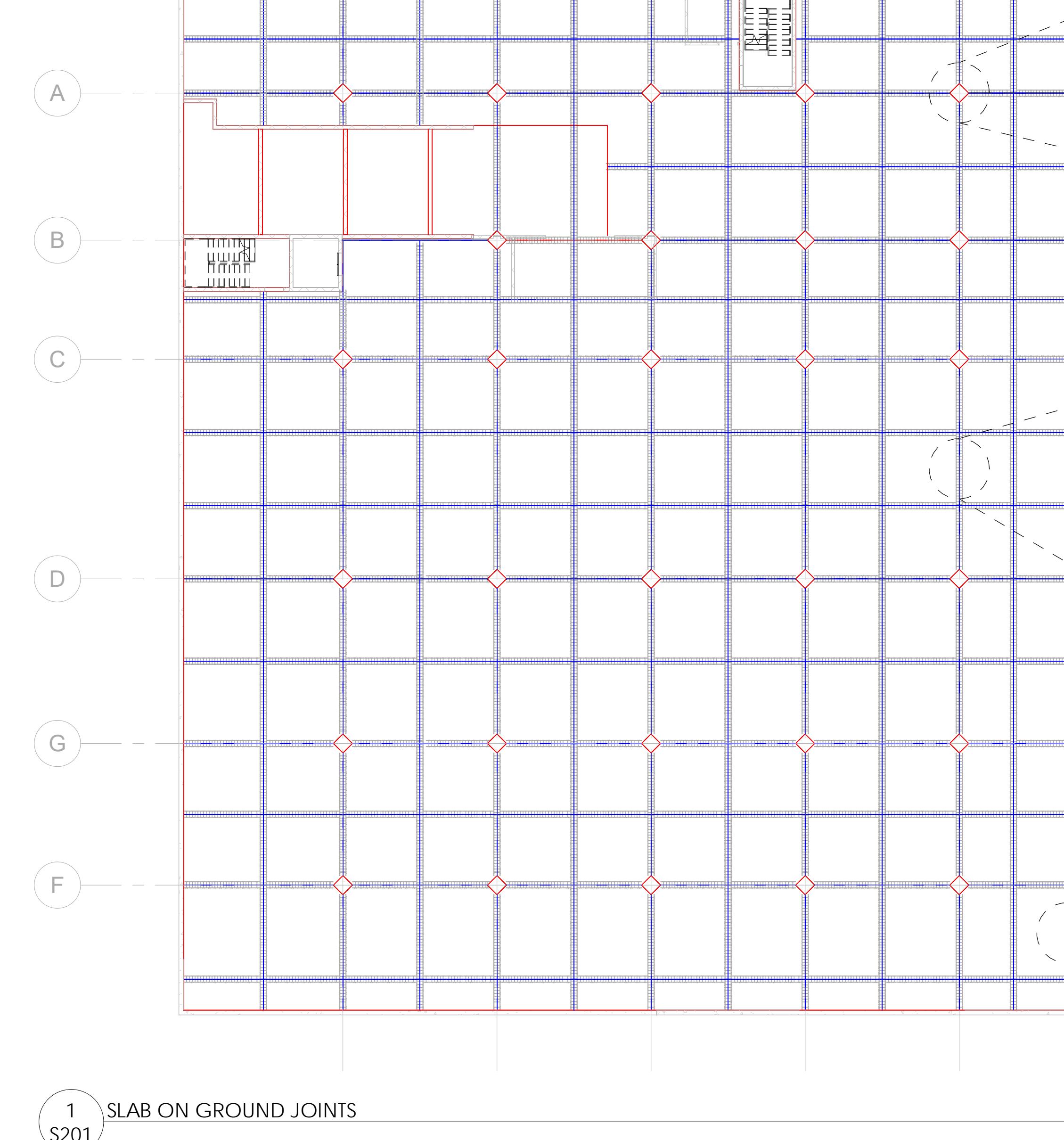
**TAILORED ENGINEERING**  
Plumbing Engineer: TAILORED ENGINEERING  
1600 Aspen Commons | Ste 210 | Middleton, WI 53562  
bnovak@tailoredeng.com | 608.209.7500

STRUCTURAL DETAILS  
CANNERY TRAIL RESIDENCES - 1750 N OXFORD AVE. - EAU CLAIRE, WI

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**JOINT TYPES:**

- █ CONTRACTION OR CONSTRUCTION JOINT
- █ ISOLATION JOINT



CANNERY TRAIL RESIDENCES - 1750 N OXFORD AVE. - EAU CLAIRE, WI

STRUCTURAL DETAILS rev01

**CAPITAL GROUP**  
Developer: W Capital Group  
tyler@wcapitalgroup.com | 608.345.9848

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Architect: OpeningDesign  
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General Contractor: ROYAL CONSTRUCTION  
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**Xc Engineering**  
Structural Engineer: Structural Engineering  
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
**Innovation Engineering Services Incorporated**  
Structural Engineer: Structural Engineering  
4729 Dale-Curtain Dr, McFarland, WI 53558  
kfrey@innovationbuilt.com


**Hovland's**  
Mechanical Engineer: HOVLAND'S HVAC  
10964 E. Melby Street | Chippewa Falls, WI 54729  
jhansen@hovlands-inc.com | 715.552.5595


**PRISM DESIGN ELECTRICAL CONSULTANTS INC**  
Electrical Engineer: PRISM DESIGN ELECTRICAL  
CONSULTANTS INC  
6404 38th Rd 85 | Middleton, WI 53562  
bhalgren@prismdesign-electrical.com | 715.797.0602

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Plumbing Engineer: TAILORED ENGINEERING  
1600 Aspen Commons | Ste 210 | Middleton, WI  
53562  
bnovak@tailoredeng.com | 608.209.7500

Date	Description
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Developer: W Capital Group  
tyler@wcapitalgroup.com | 608.345.9848



Architect: OpeningDesign  
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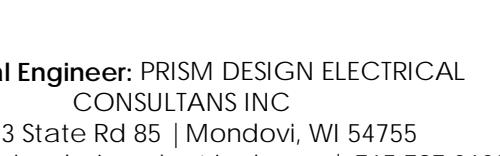
Structural Engineer: Structural Engineering  
Calle Apolonia Morales, 628036 Madrid,  
l.pereztato@xcengineering.xyz | +34 610 56 26 37



Structural Engineer: Structural Engineering  
4729 Dale-Curtain Dr, McFarland, WI 53558  
kfrey@innovationbuilt.com



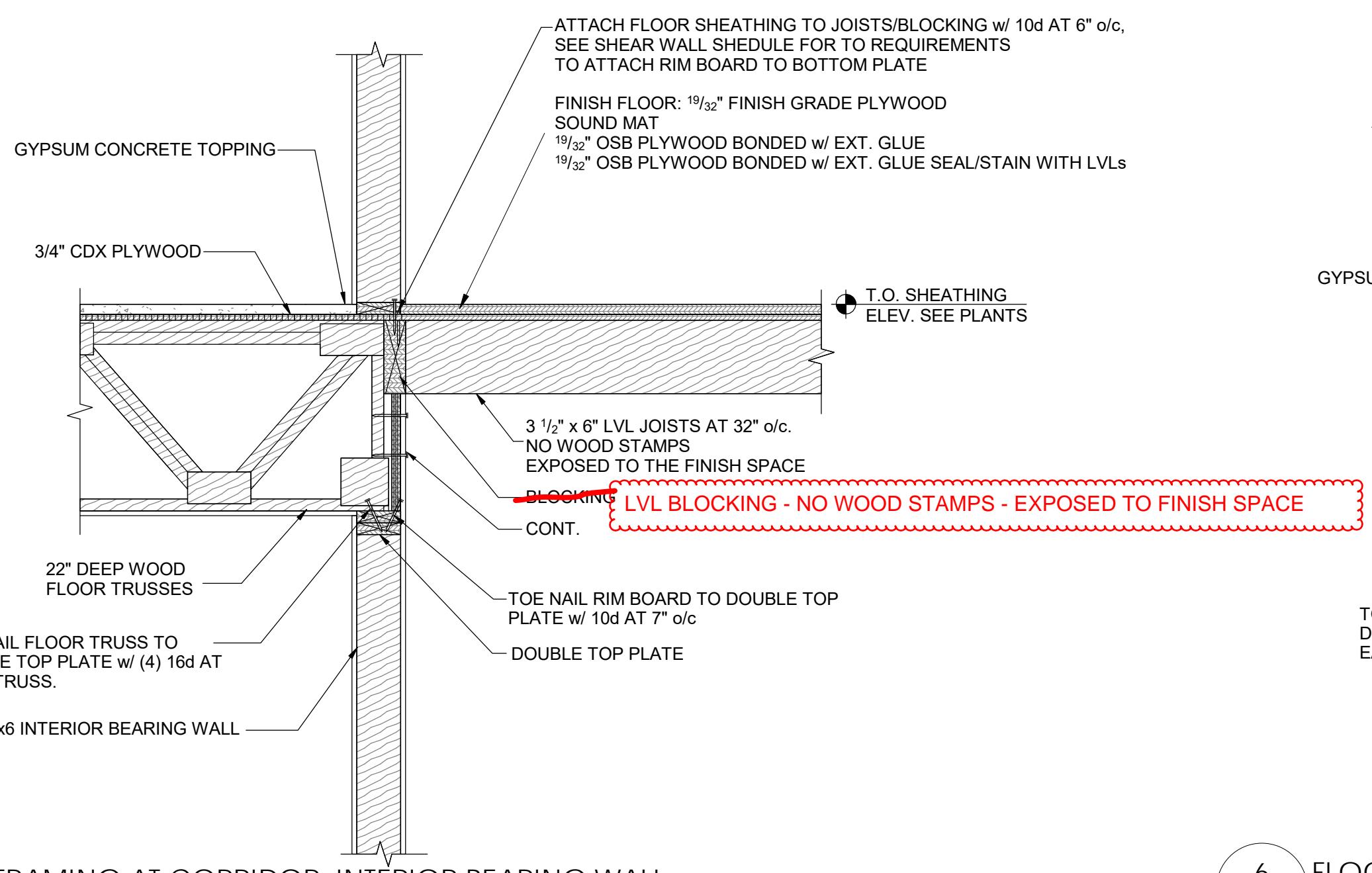
Mechanical Engineer: HOVLAND'S HVAC  
10954 E. Melby Street | Chippewa Falls, WI 54729  
jhansen@hovlands-inc.com | 715.552.5595



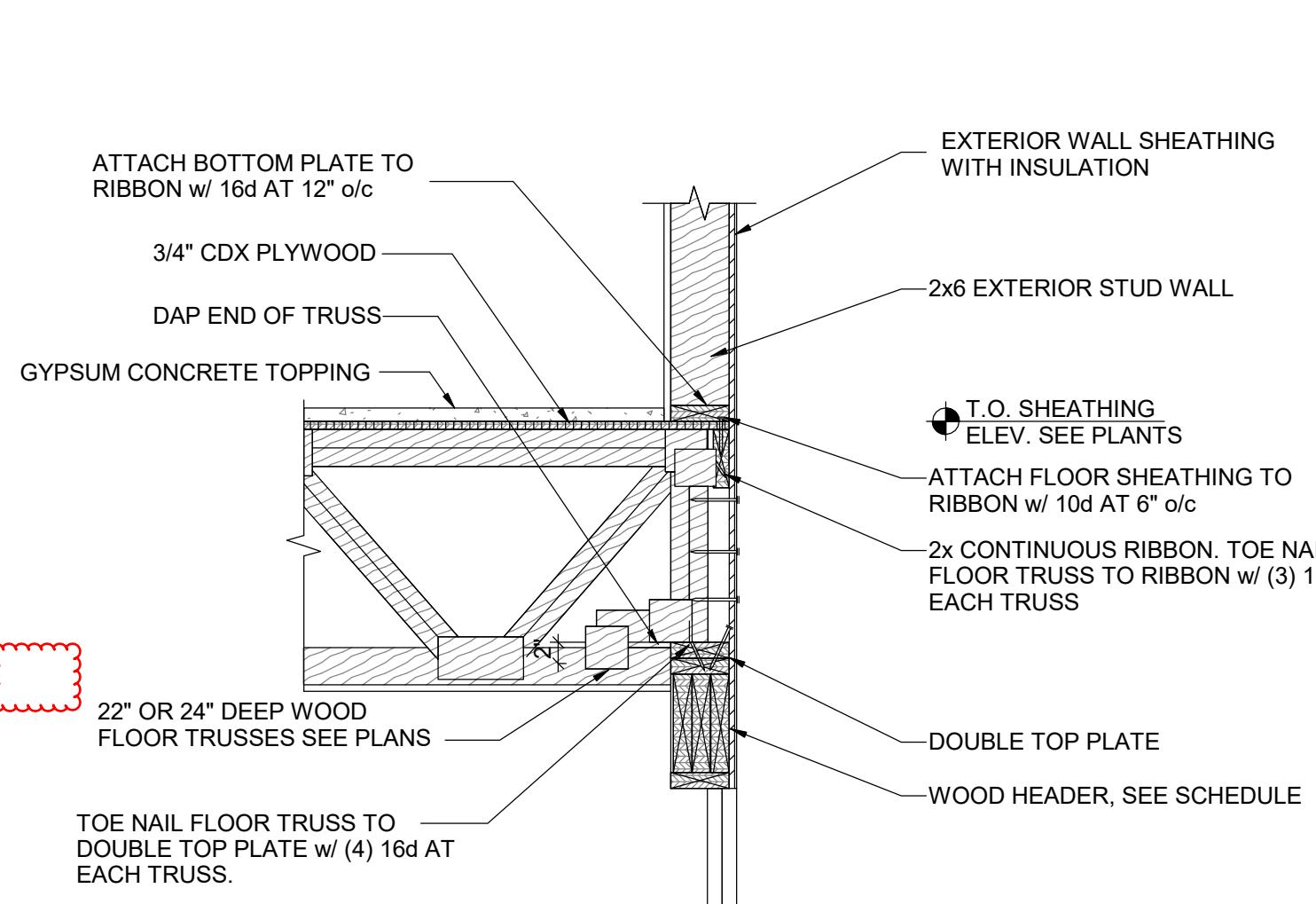
Electrical Engineer: PRISM DESIGN ELECTRICAL  
CONSULTANTS INC  
6404 38th Rd 85 | Monroe, WI 54755  
bhalgren@prismdesign-electrical.com | 715.797.0402



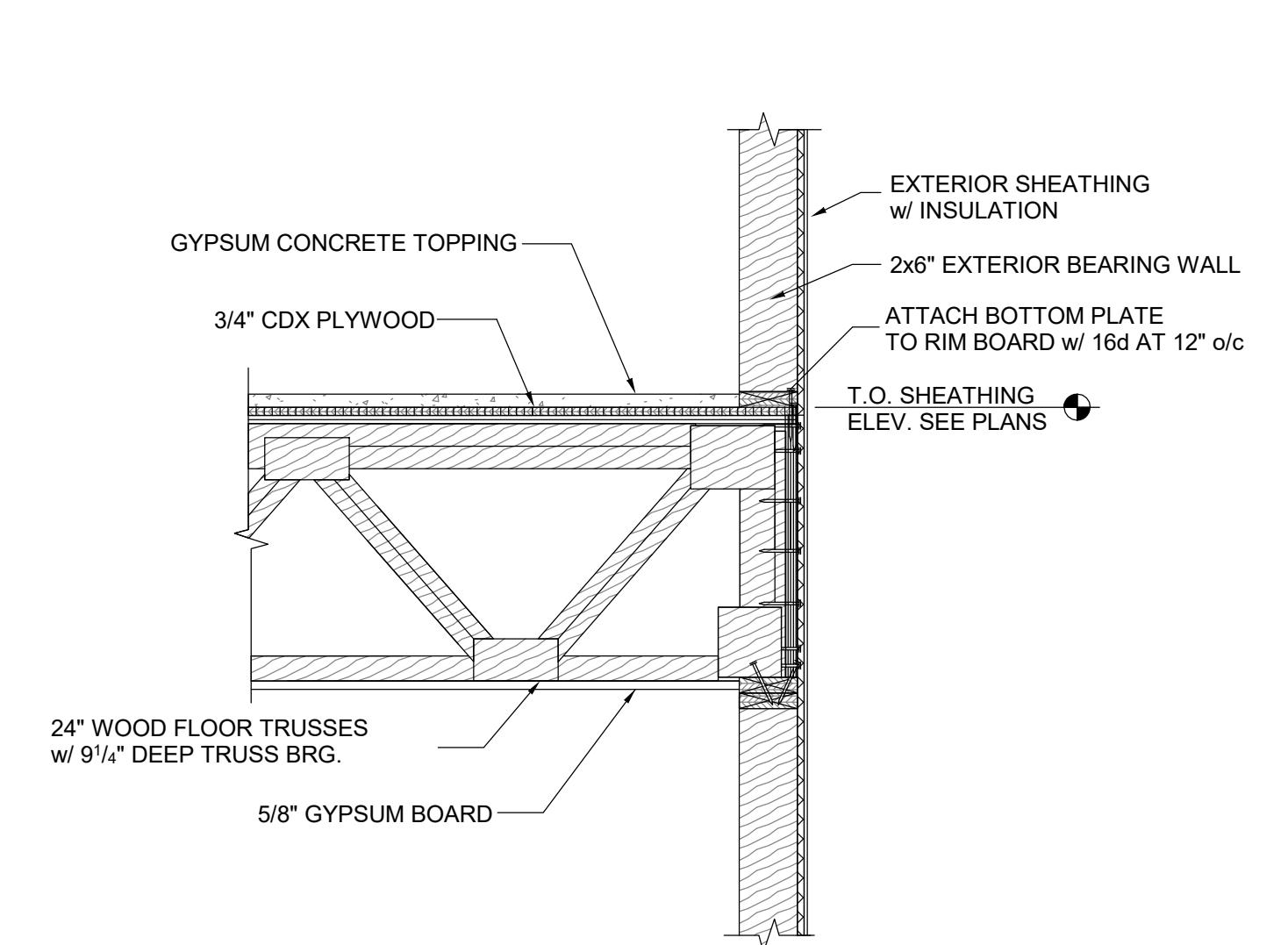
Plumbing Engineer: TAILORED ENGINEERING  
1600 Aspen Commons | Ste 210 | Middleton, WI  
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bnovak@tailoredeng.com | 608.209.7500



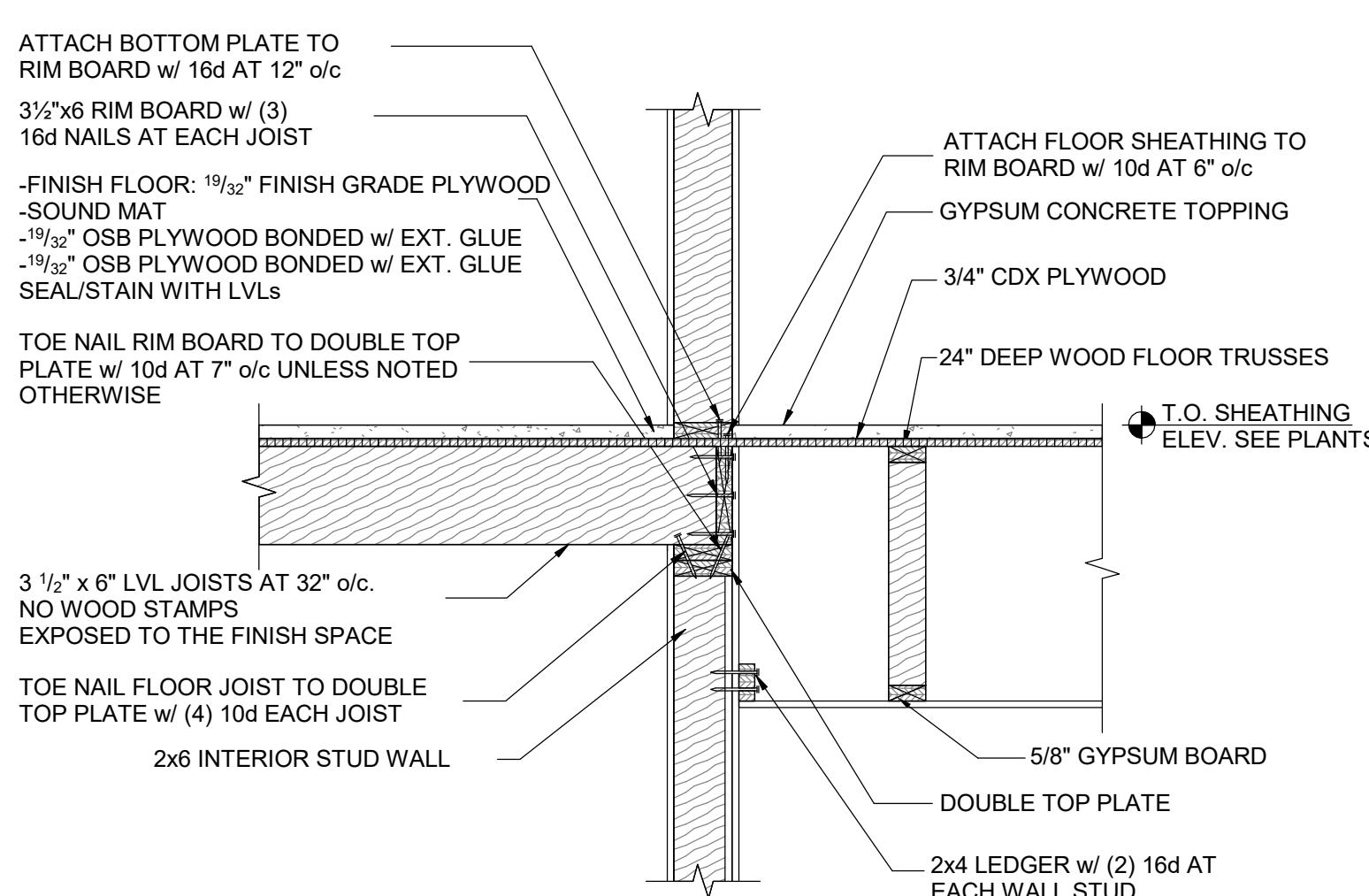
5 FLOOR FRAMING AT CORRIDOR. INTERIOR BEARING WALL  
S215



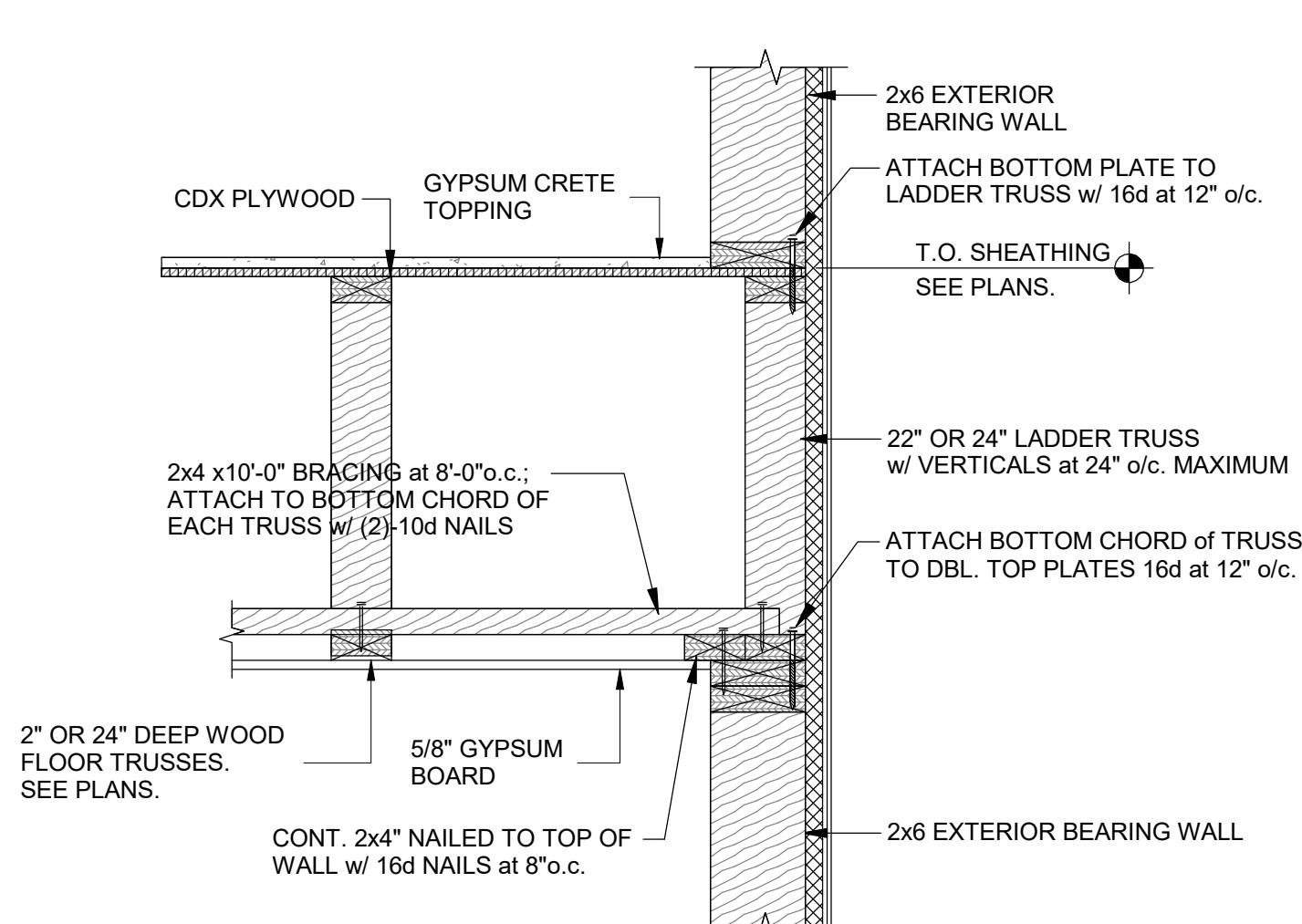
6 FLOOR FRAMING AT EXTERIOR WALL BEARING ON HEADER  
S215



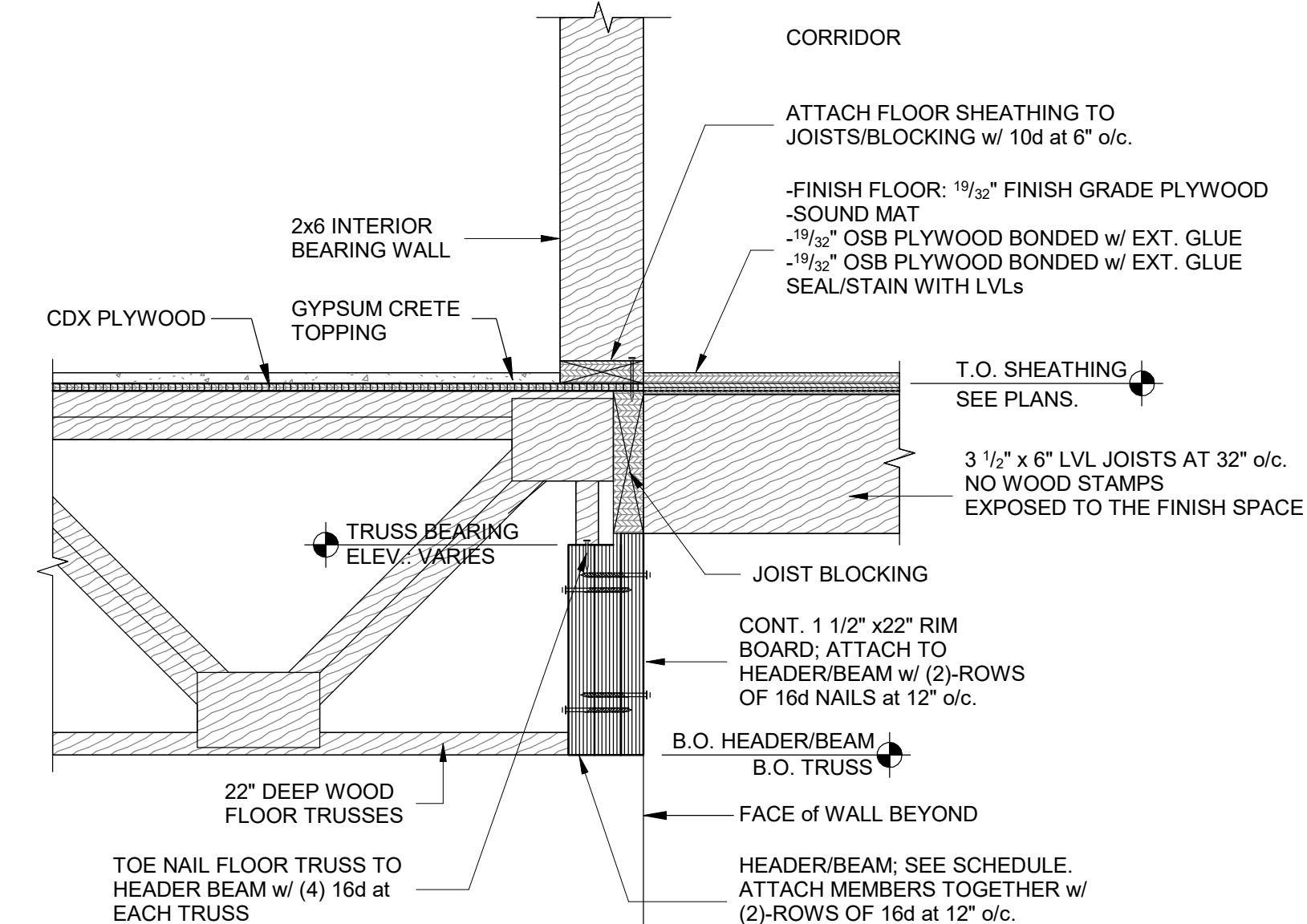
7 FLOOR FRAMING AT EXTERIOR BEARING WALL  
S215



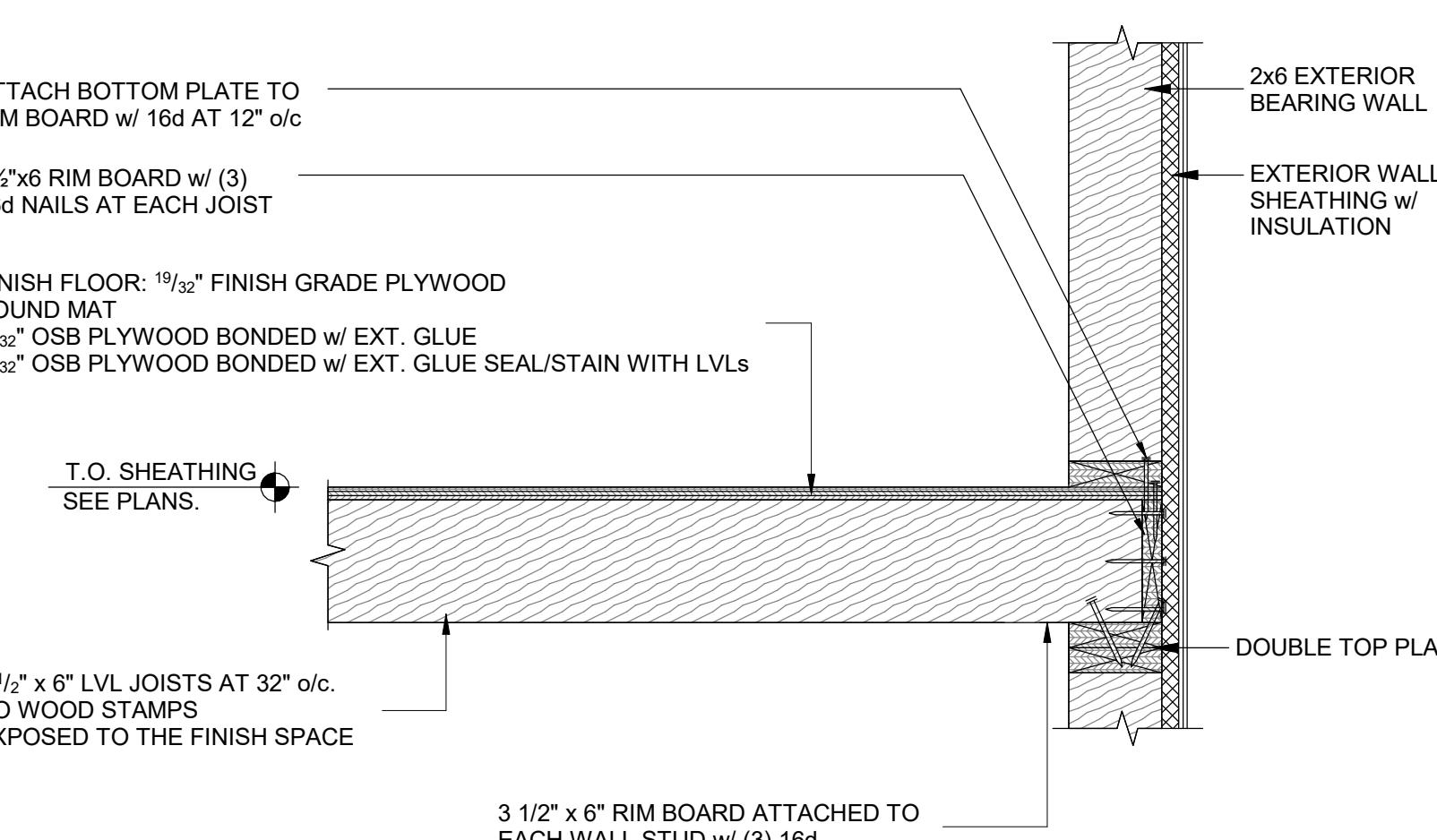
8 FLOOR FRAMING AT CORRIDOR. PLATFORM FRAMING AT INTERIOR BEARING WALL  
S215



9 FLOOR FRAMING PARALLEL TO EXTERIOR WALL  
S215



10 FLOOR FRAMING AT CORRIDOR. INTERIOR HEADER  
S215



11 FLOOR FRAMING AT CORRIDOR. PLATFORM FRAMING AT EXTERIOR BEARING WALL  
S215

Date	Description
08.15.2019	75% CD Set



Date 08.15.2019 Description 75% CD Set

please verify and/or size all members and fasteners on this sheet.

