





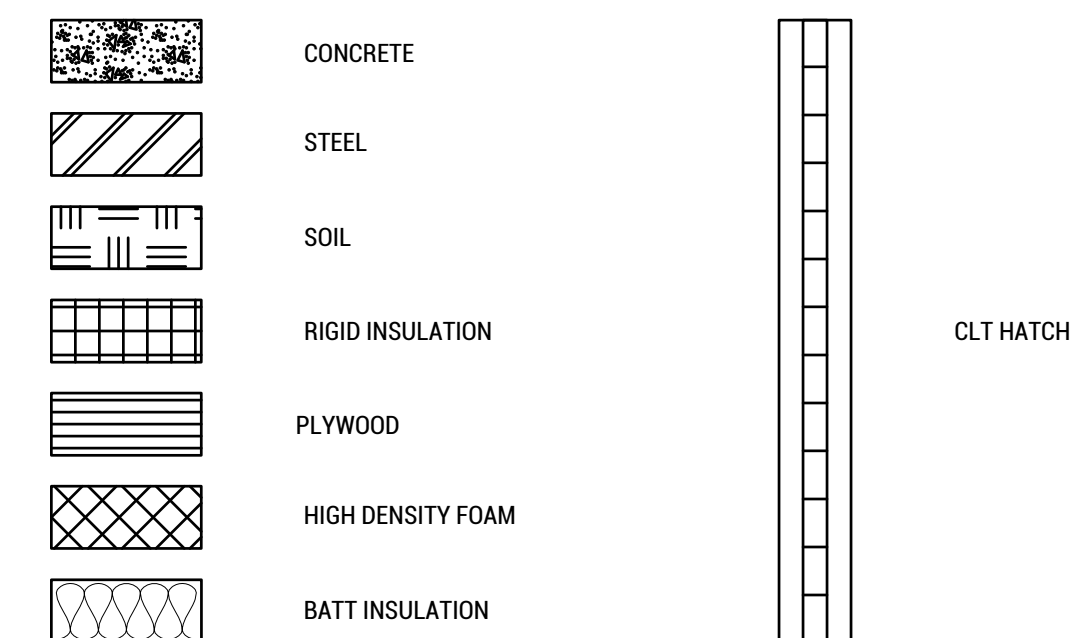
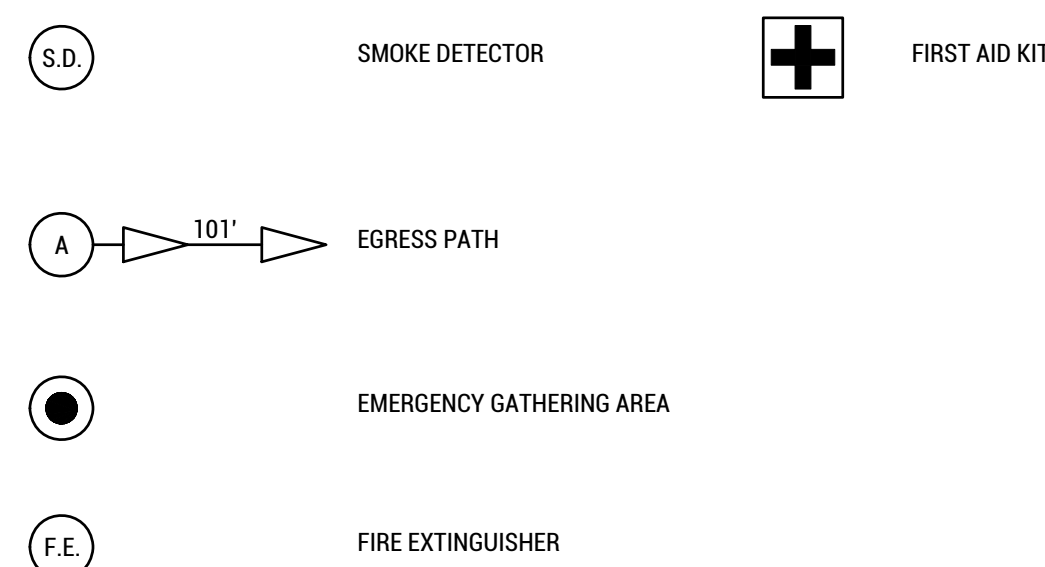
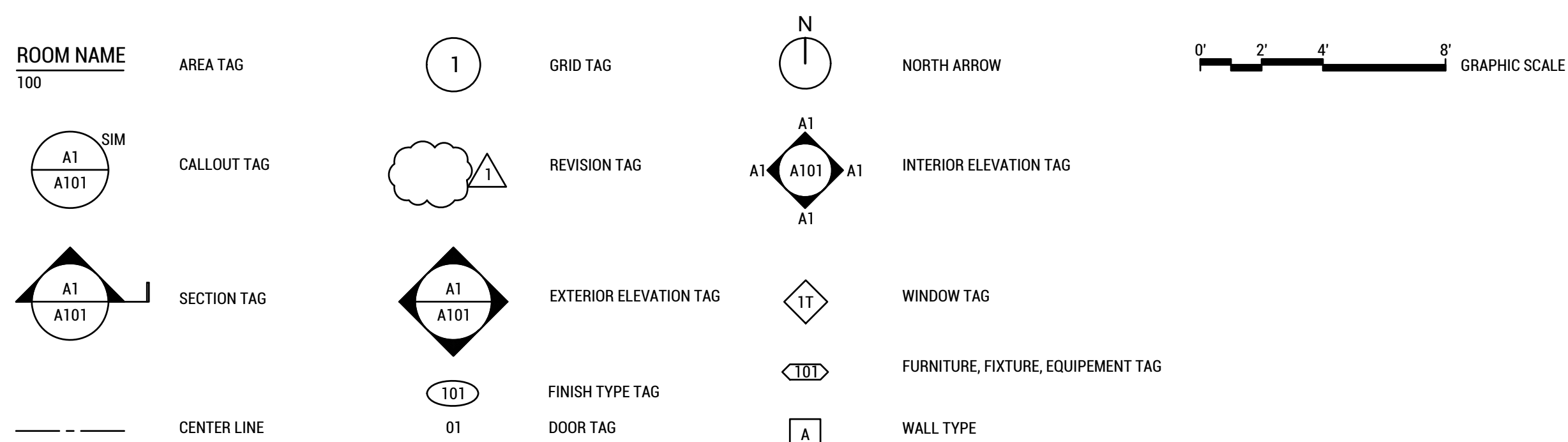
ABBREVIATIONS			
ABRV.	DESCRIPTION	ABRV.	DESCRIPTION
&	AND	H	HOT
ABRV.	ABBREVIATION	HWDR.	HARDWARE
ABV.	ABOVE	H.EX.	HEAT EXCHANGER
AC	ALTERNATE CURRENT	H.R.	HOME RUN
AFF	ABOVE FINISH FLOOR	H.S.S.	HARDWARE
ALUM.	ALUMINUM	H.P.	HEAT PUMP
ALT.	ALTERNATE	HT.	HEIGHT
AUTO.	AUTOMATIC	HVAC	HEATING, VENTILATION, & AIR CONDITIONING
AVG.	AVERAGE	H.W.	HOT WATER
BD.	BOARD	INFO.	INFORMATION
BLDG.	BUILDING	INST.	INSTALL OR INSTALLATION
BLKG.	BLOCKING	INSTR.	INSTRUMENT
BOT.	BOTTOM	INSUL.	INSULATION
		INT.	INTERIOR
C	COLD	KIT.	KITCHEN
CLG.	CEILING	KW	KILLOWATT
CLT	CROSS LAMINATED TIMBER	LAV.	LAVATORY
CONC.	CONCRETE	LT.	LIGHT
CONT.	CONTINUOUS OR CONTINUED	LVR.	LOUVER
CTR.	CENTER	MAX.	MAXIMUM
CLG.	CEILING	MFD.	MANUFACTURED
CW	COLD WATER	MFR.	MANUFACTURER
DBL.	DOUBLE	MATL.	MATERIAL
DC	DIRECT CURRENT	MECH.	MECHANICAL
DTL.	DETAIL	MEMB.	MEMBRANE
DHW	DOMESTIC HOT WATER	MIN.	MINIMUM
DIA.	DIAMETER	MISC.	MISCELLANEOUS
DN.	DOWN	MLWK.	MILLWORK
DRN.	DRAIN	MDP.	MAIN DISTRIBUTION PANEL
DS.	DOWNSPOUT	MTL.	METAL
DW	DISHWASHER	MTD.	MOUNTED
DWG.	DRAWING	NO.	NUMBER
		(N)	NEW
E.F.	EXHAUST FAN	N.T.S.	NOT TO SCALE
ELEV.	ELEVATION		
ELAST.	ELASTOMERIC	O/	OVER
ELEC.	ELECTRICAL	OVHD.	OVERHEAD
EMBED.	EMBEDDED	O.C.	ON CENTER
EQ.	EQUAL	OPNG.	OPENING
EQUIP.	EQUIPMENT	OPP.	OPPOSITE
ERV	ENERGY RECOVERY VENTILATOR	OPR.	OPERABLE
(E)	EXISTING	PTN.	PARTITION
E.J.	EXPANSION JOINT		
EXT.	EXTERIOR	T	TEMPERED
		TEMP.	TEMPERATURE
F.O.F.	FACE OF FINISH	TPMP.	TEMPORARY
F.C.U.	FAN COIL UNIT	T.C.	THERMOCOUPLE
F.D.	FLOOR DRAIN	T&G	TOUNGUE AND GROOVE
F.E.	FIRE EXTINGUISHER	TRTD.	TREATED
FIN.	FINISH	T.S.	TEMPERATURE SENSOR
F.R.	FIRE RATED	TYP.	TYPICAL
FIXT.	FIXTURE	UTIL.	UTILITY
FLR.	FLOOR	TEMP.	TEMPERATURE
FLDG.	FOLDING	U.N.O.	UNLESS NOTED OTHERWISE
FT.	FOOT OR FEET		
FTG.	FOOTING	V.	VALVE
FURN.	FURNITURE	V.B.	VAPOR BARRIER
		VEH.	VEHICLE
GAL	GALLON	VERT.	VERTICAL
GALV.	GALVANIZED	V.I.F.	VERIFY IN FIELD
GA.	GAUGE	V.O.C.	VOLATILE ORGANIC COMPOUND
GFCI	GROUND FAULT CIRCUIT INTERRUPT		
GRD.	GRADE		
GND.	GROUND		
GYP.	GYP SUM		

SHEET LIST	
SHEET NUMBER	SHEET NAME
GENERAL	
G-001	COVER SHEET
G-002	SHEET LIST, ABBREVIATIONS, SYMBOLS, & HATCHES
G-003	CODE ANALYSIS
G-101	SQUARE FOOTAGE COMPLIANCE PLAN
G-102	EMERGENCY EGRESS PLAN
G-103	ADA TOUR ROUTE
G-201	SOLAR ENVELOPE COMPLIANCE ELEVATIONS - NORTH/SOUTH
G-202	SOLAR ENVELOPE COMPLIANCE ELEVATIONS - EAST/WEST
HAZARD	
H-101	LIQUID LOCATION & SPILL CONTAINMENT
CIVIL	
C-101	LOCATION PLAN
LANDSCAPE	
L-101	SITE LANDSCAPE AND MATERIALS PLAN
L-102	SITE LAYOUT PLAN
L-103	GROUND CONTACT PLAN
L-104	DECK FRAMING AND PATTERN
L-105	PLANTER MODULE PLACEMENT PLAN
L-106	SITE IRRIGATION PLAN
L-107	SITE PLANTING PLAN
L-108	SITE PLANT LIST
L-110	ENLARGED GROUND CONTACT PLAN
L-111	ENLARGED GROUND CONTACT PLAN
L-112	ENLARGED GROUND CONTACT PLAN
L-113	ENLARGED GROUND CONTACT PLAN
L-114	ENLARGED GROUND CONTACT PLAN
L-301	PLANTER SECTIONS
L-302	PLANTER SECTIONS
L-501	MODULAR DECK DETAILS
L-701	PLANTER DIAGRAM
STRUCTURAL	
S-101	FLOWABLE FILL INSTALLATION AND REMOVAL
S-102	GEOFOAM FOUNDATION PLAN
S-103	STRUCTURAL FLOOR PLAN
S-104	ROOF STRUCTURE PLAN
S-110	TINYHOME MODULES FRAMING PLAN
S-201	CLUBHOUSE STRUCTURAL ELEVATIONS
S-202	TINYHOME STRUCTURAL ELEVATIONS
S-301	CLUBHOUSE STRUCTURAL SECTION
S-302	TINYHOME STRUCTURAL SECTION
S-501	STRUCTURAL DETAILS
S-502	SKYLIGHT MODULE DETAILS
S-503	SKYLIGHT MODULE DETAILS
S-504	TINYHOME BATHROOM MODULE STRUCTURAL DETAILS
S-505	TINYHOME CLOSET MODULE STRUCTURAL DETAILS
S-506	FLOWABLE FILL DETAILS
ARCHITECTURAL	
A-101	FLOOR PLAN
A-102	LOFT PLAN
A-103	ROOF PLAN
A-201	CLUBHOUSE ELEVATIONS
A-202	TINY HOUSE ELEVATIONS
A-203	SITE ELEVATIONS SOUTH/NORTH
A-204	SITE ELEVATIONS EAST/WEST
A-301	CLUBHOUSE BUILDING SECTIONS
A-302	TINY HOUSE BUILDING SECTIONS
A-303	TINY HOUSE WALL SECTIONS
A-304	TINY HOUSE WALL SECTIONS
A-305	CLUBHOUSE WALL SECTIONS
A-306	TINY HOUSE STAIR SECTIONS
A-401	SITE SECTIONS
A-501	GREEN WALL DETAILS
A-502	ENVELOPE DETAILS
A-503	ENVELOPE DETAILS
A-504	SOLAR PANEL MOUNTING DETAILS
A-505	GREENWALL DETAILS
A-601	WINDOW & DOOR SCHEDULE
INTERIORS	
I-101	INTERIOR DESIGN PLAN
I-102	FLOOR FINISH PLAN
I-103	FLOOR PLENUM LAYOUT
I-201	CLUBHOUSE INTERIOR ELEVATIONS
I-202	TINY HOUSE INTERIOR ELEVATION
I-501	INTERIOR DETAILS
I-503	CASEWORK DETAILS
I-901	TINY HOUSE INTERIOR
FIRE PROTECTION	
F-101	FIRE DETECTION AND ALARM
F-102	FIRE SUPPRESSION COVERAGE PLAN
PLUMBING	
P-001	PLUMBING NOTES, SYMBOLS, ABRV, & SCHEDULE
P-101	PLUMBING SUPPLY PLAN
P-102	PLUMBING DRAINAGE, WASTE, AND VENT PLAN
P-901	PLUMBING SUPPLY ISOMETRIC CLUBHOUSE
P-902	PLUMBING SUPPLY ISOMETRIC TINY HOUSE
P-903	PLUMBING WASTE ISOMETRIC CLUBHOUSE
P-904	PLUMBING WASTE ISOMETRIC TINY HOUSE
MECHANICAL	
M-101	MECH PLAN, SCHEDULE, NOTES
M-201	CLUBHOUSE MECHANICAL COMPARTMENT ELEVATIONS
ELECTRICAL	
E-001	ELECTRICAL NOTES, SYMBOLS, ABRV, & SCHEDULE
E-101	AC POWER PLAN
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OPERATIONS	
O-101	SITE LOGISTICS PLAN AND NOTES
O-102	WATER TRUCK AND FILL LOCATIONS
O-103	WATER TRUCK AND EMPTYING LOCATIONS
O-104	MODULE SETTING PLAN - WET AREAS/UTILITY
O-601	LIFT WEIGHT CALCULATIONS
O-602	TRUCK ROUTE
O-801	FALL PROTECTION PLAN/FALL ARREST SYSTEMS
O-904	ASSEMBLY SEQUENCE SITE
O-906	DISASSEMBLY SEQUENCE SITE
O-907	MODULE LOCATION DIAGRAM

ARCH SYMBOLS

EGRESS AND ADA SYMBOLS

MATERIAL HATCHES



WASHINGTON STATE UNIVERSITY

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CLIENT:  
U.S. DEPARTMENT OF ENERGY  
SOLAR DECATHLON 2017  
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	11/15/2016	80% DD SET

LOT NUMBER: LOT #107

SHEET TITLE:

SHEET LIST,  
ABBREVIATIONS,  
SYMBOLS, & HATCHES

DRAWN BY: TG CHECKED BY: TG

G-002

FINISH SCHEDULE														
LOCATION	BASE	FLOOR		N. WALL		E. WALL		S. WALL		W. WALL		CEILING		REMARKS
BLDG ROOM	MAT'L	FIN	MAT'L	FIN	MAT'L	FIN	MAT'L	FIN	MAT'L	FIN	MAT'L	FIN	MAT'L	FIN
T. H. LIVING	N/A	T-1	SEAL	CLT	ST-1	CLT	ST-1	CLT	ST-1	CLT	ST-1	CLT	ST-1	
KITCHEN	N/A	T-1	SEAL	CLT	ST-1	CLT	ST-1	CLT	ST-1	CLT	ST-1	CLT	ST-1	
LOFT	N/A	CLT	CC	CLT	ST-1	CBL	N/A	CBL	N/A	CLT	ST-1	CLT	ST-1	
HALL	N/A	T-1	SEAL	CLT	ST-1	CLT	ST-1	CLT	ST-1	CLT	ST-1	CLT	ST-1	
BATH	T-2	T-2	SEAL	*	*	*	*	*	*	*	*	T-2	T-2	*SEE INT. ELEVS.
CLUB LIVING	N/A	T-1	SEAL	CLT	ST-1	CLT	ST-1	CLT	ST-1	CLT	ST-1	CLT	ST-1	
KITCHEN	N/A	T-1	SEAL	*	*	CLT	ST-1	CLT	ST-1	CLT	ST-1	CLT	ST-1	*SEE INT. ELEVS.
DINING	N/A	T-1	SEAL	CLT	CC	N/A	N/A	CLT	CC	N/A	N/A	CLT	CC	
BATH	*	T-2	*	CLT	*	CLT	ST-1	CLT	ST-1	CLT	ST-1	CLT	ST-1	*SEE INT. ELEVS.
MECH	N/A	CLT	CC	PLY	CC	PLY	CC	PLY	CC	PLY	CC	PLY	CC	

NOTE:  
SEE EXTERIOR ELEVATIONS FOR EXTERIOR FINISHES.



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LOT NUMBER: LOT #107

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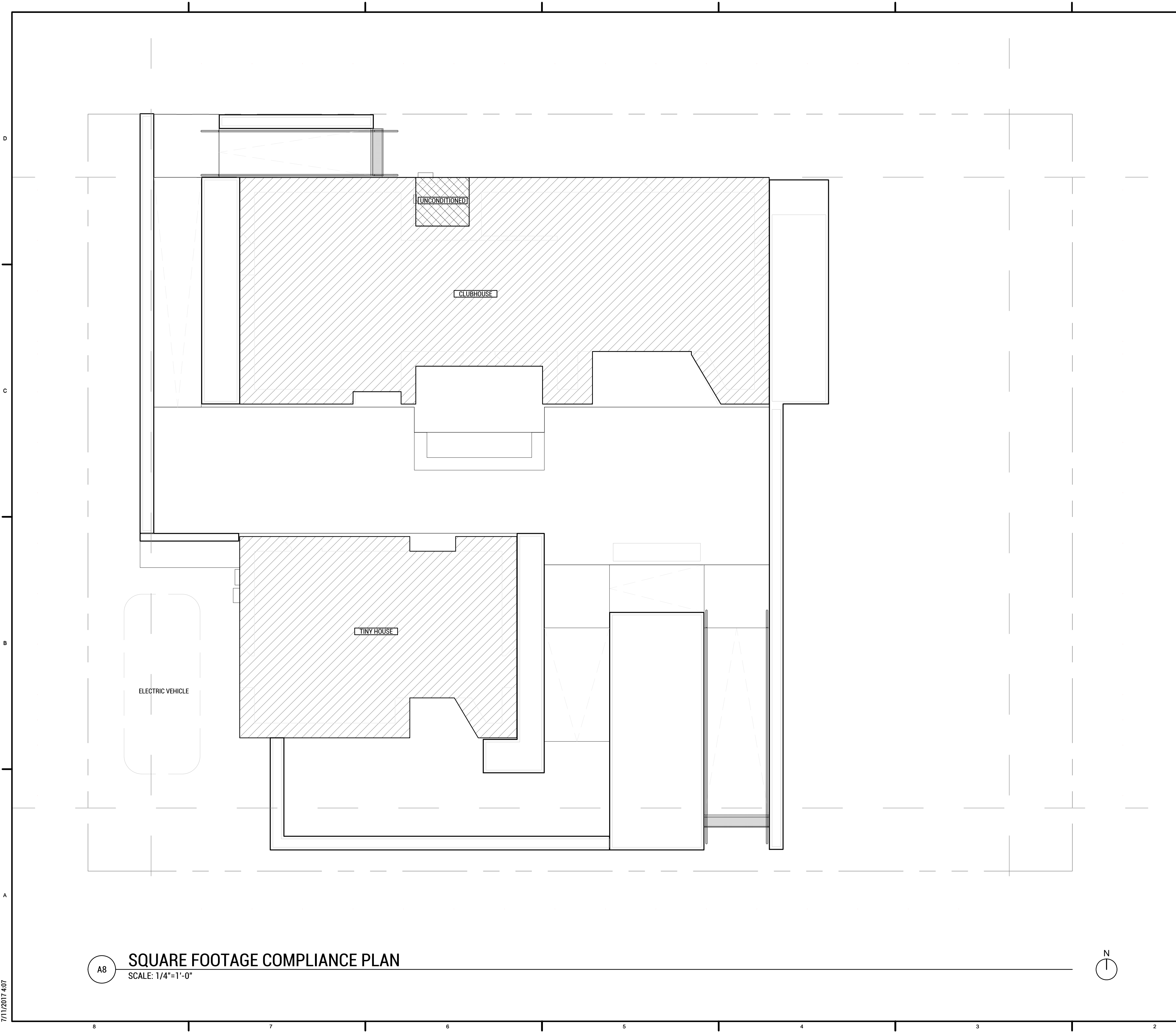
CODE ANALYSIS

DRAWN BY: TG CHECKED BY: MT

G-003

A8 CODE ANALYSIS  
 SCALE: 1/4"=1'-0"

5/9/2017 5:45



### SQURE FOOT CALCULATIONS

	COMMUNITY BUILDING:	682 SF
	COMMUNITY BUILDING UNCONDITIONED SF:	16 SF
	TINY HOUSE:	330 SF
	TOTAL GROSS SF:	1012 SF
	TOTAL NET SF:	996 SF
	OUTDOOR BUILT AREA:	1491 SF
	TOTAL BUILT AREA (TOTAL GROSS+OUTDOOR):	2503 SF



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	11/15/2016	80% DD SET

LOT NUMBER: LOT #107

SHEET TITLE:  
**SQUARE FOOTAGE COMPLIANCE PLAN**

DRAWN BY: BK CHECKED BY: TG

# G-101

**SQUARE FOOTAGE COMPLIANCE PLAN**  
 SCALE: 1/4"=1'-0"

7/11/2017 4:07



D  
C  
B  
A



A8 EMERGENCY EGRESS PLAN



TEAM NAME: EN CITY  
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	02/17/2017	FINAL CHECKSET
	11/15/2016	80% DD SET

LOT NUMBER: LOT #107

SHEET TITLE:

EMERGENCY EGRESS PLAN

DRAWN BY: MT CHECKED BY: TG

G-102

7/11/2017 5:03



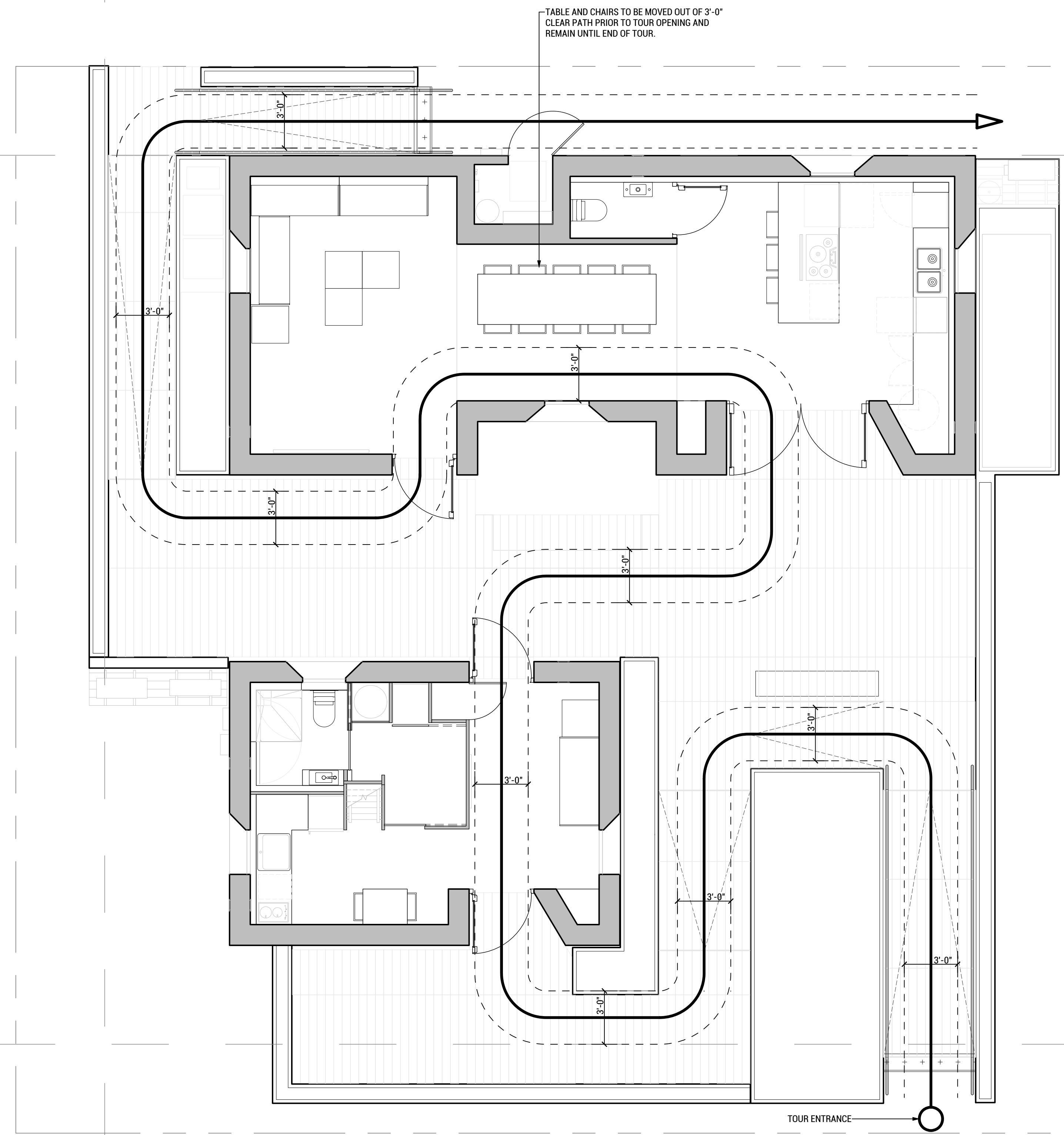
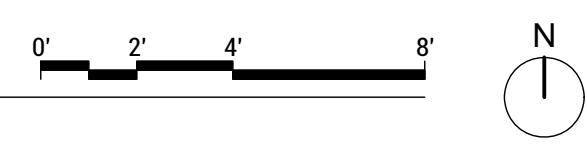


TABLE AND CHAIRS TO BE MOVED OUT OF 3'-0"  
 CLEAR PATH PRIOR TO TOUR OPENING AND  
 REMAIN UNTIL END OF TOUR.

**ADA TOUR ROUTE**  
 SCALE: 1/4"=1'-0"



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LOT NUMBER: LOT #107

SHEET TITLE:

**ADA TOUR ROUTE**

DRAWN BY: MT CHECKED BY: TG

**G-103**

7/13/2017 11:50





TEAM NAME: EN CITY  
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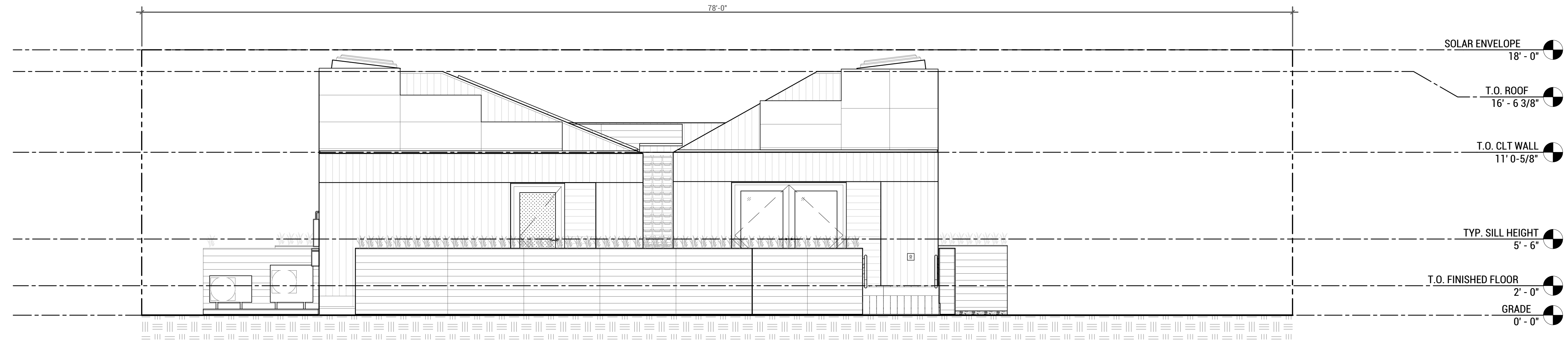
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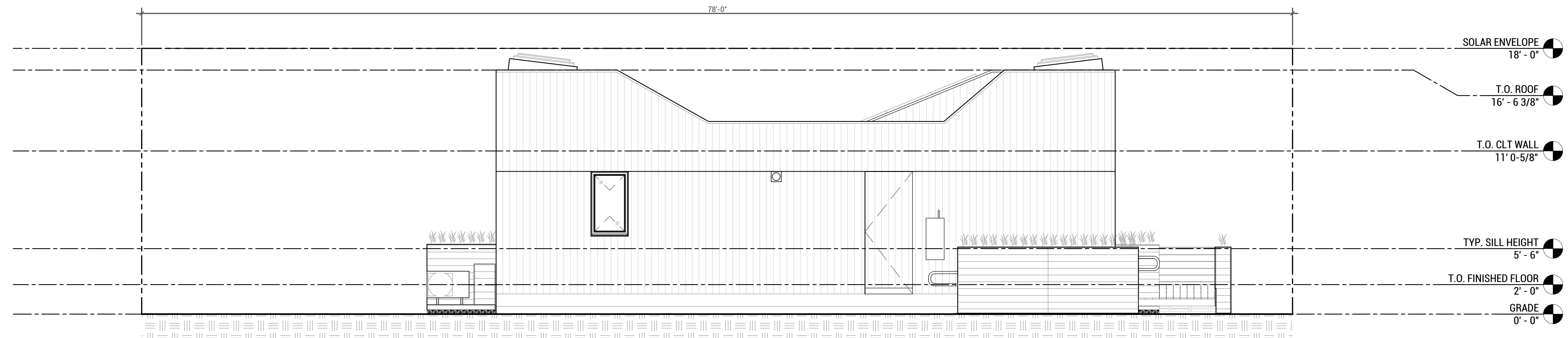
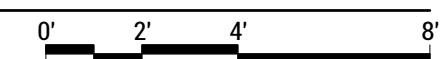
**SOLAR COMPLIANCE ELEVATIONS SOUTH/NORTH**

DRAWN BY: SA CHECKED BY: TG

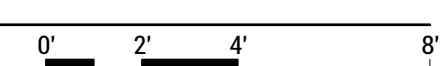
**G-201**



**SOLAR COMPLIANCE SOUTH ELEVATION**  
 SCALE: 1/4"=1'-0"



**SOLAR COMPLIANCE NORTH ELEVATION**  
 SCALE: 1/4"=1'-0"







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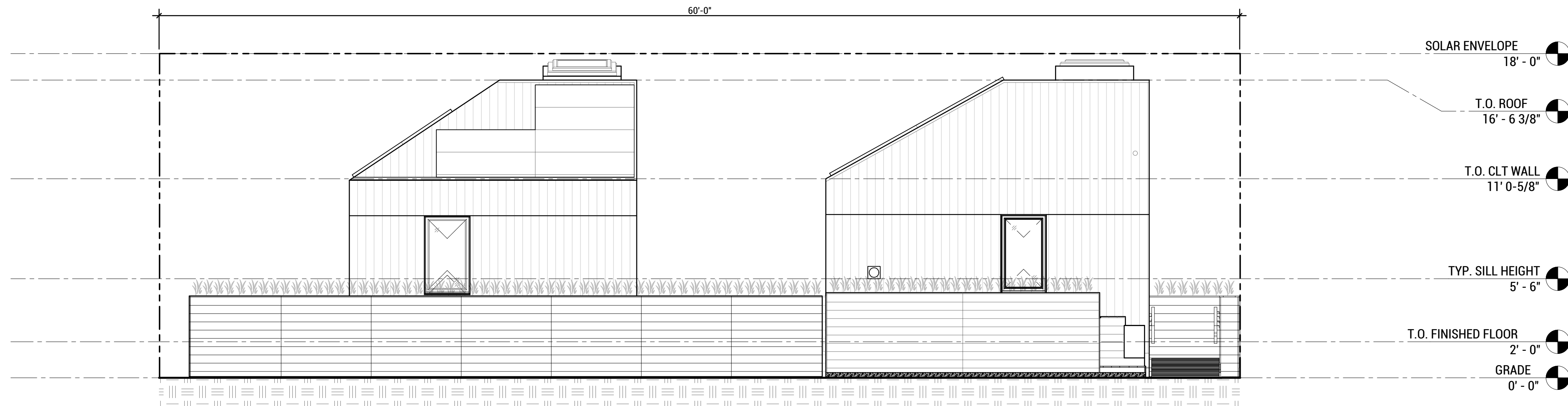
LOT NUMBER: LOT #107

SHEET TITLE:

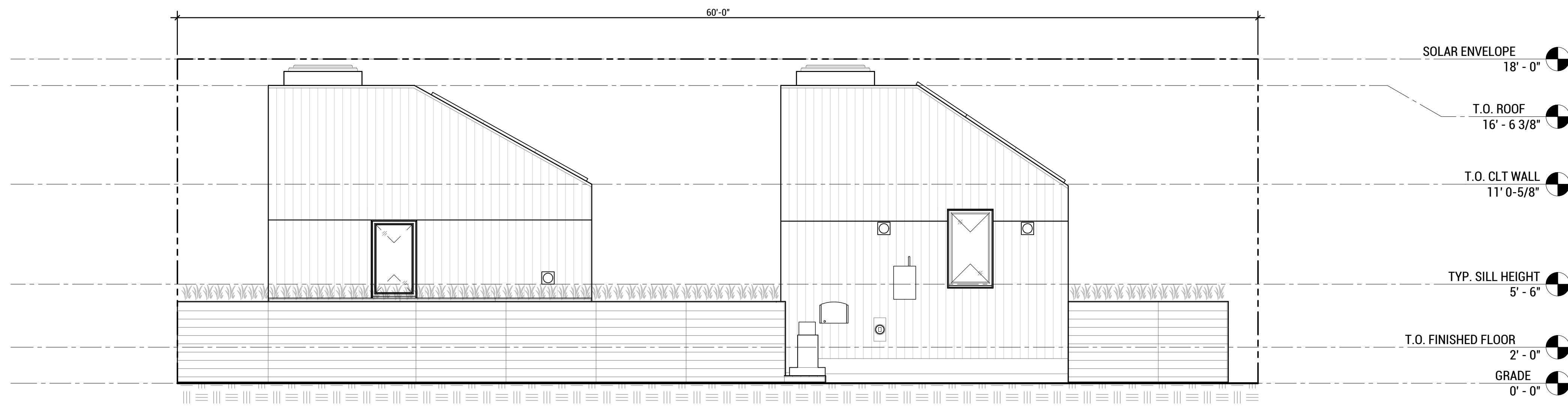
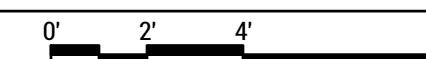
**SOLAR COMPLIANCE ELEVATIONS EAST/WEST**

DRAWN BY: SA CHECKED BY: TG

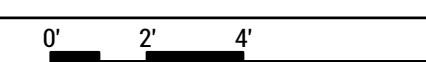
**G-202**



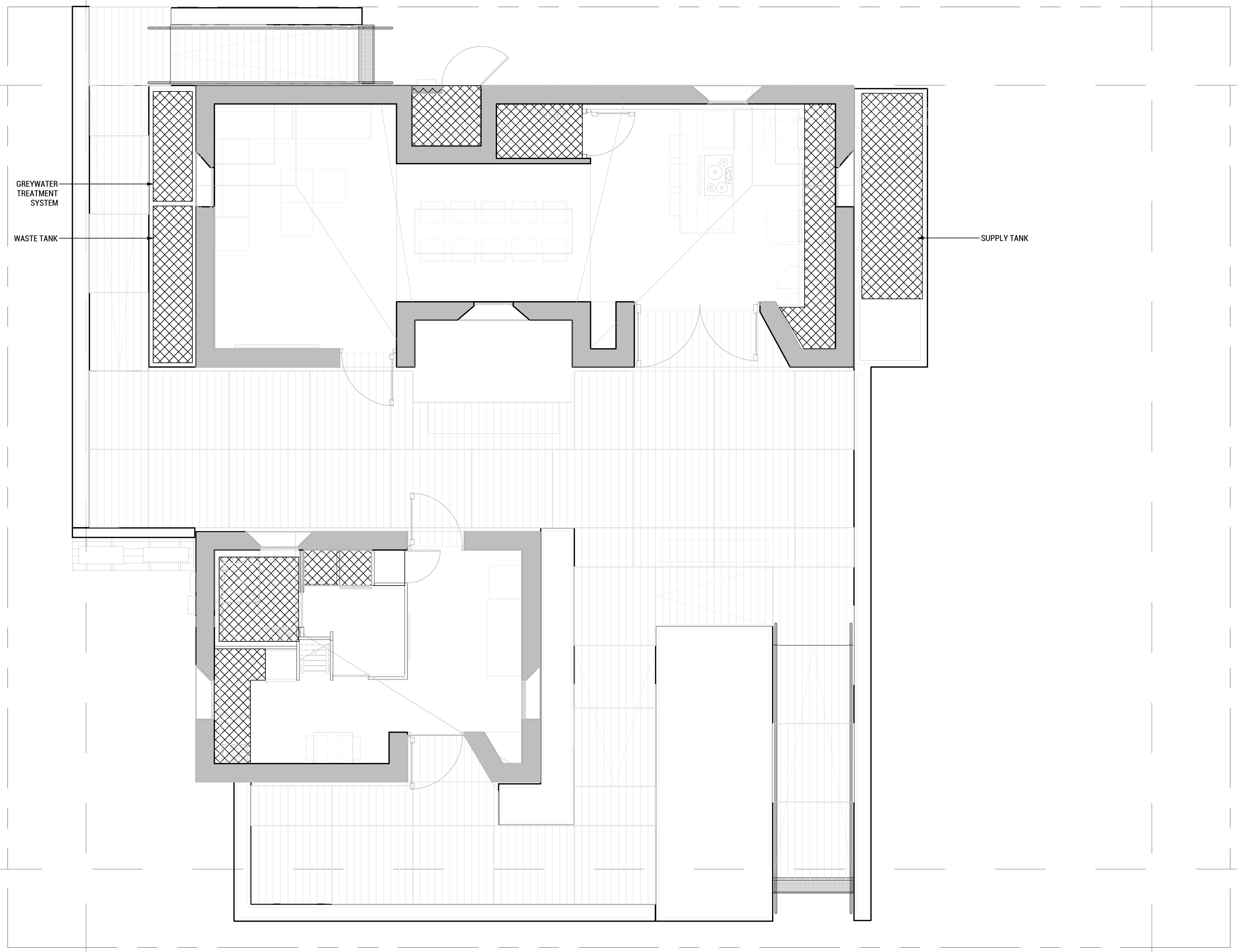
**B7 SOLAR COMPLIANCE EAST ELEVATION**  
 SCALE: 1/8"=1'-0"



**A7 SOLAR COMPLIANCE WEST ELEVATION**  
 SCALE: 1/8"=1'-0"







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LOT NUMBER: LOT #107

SHEET TITLE:  
**LIQUID LOCATION  
 & SPILL  
 CONTAINMENT**

DRAWN BY: CHECKED BY:

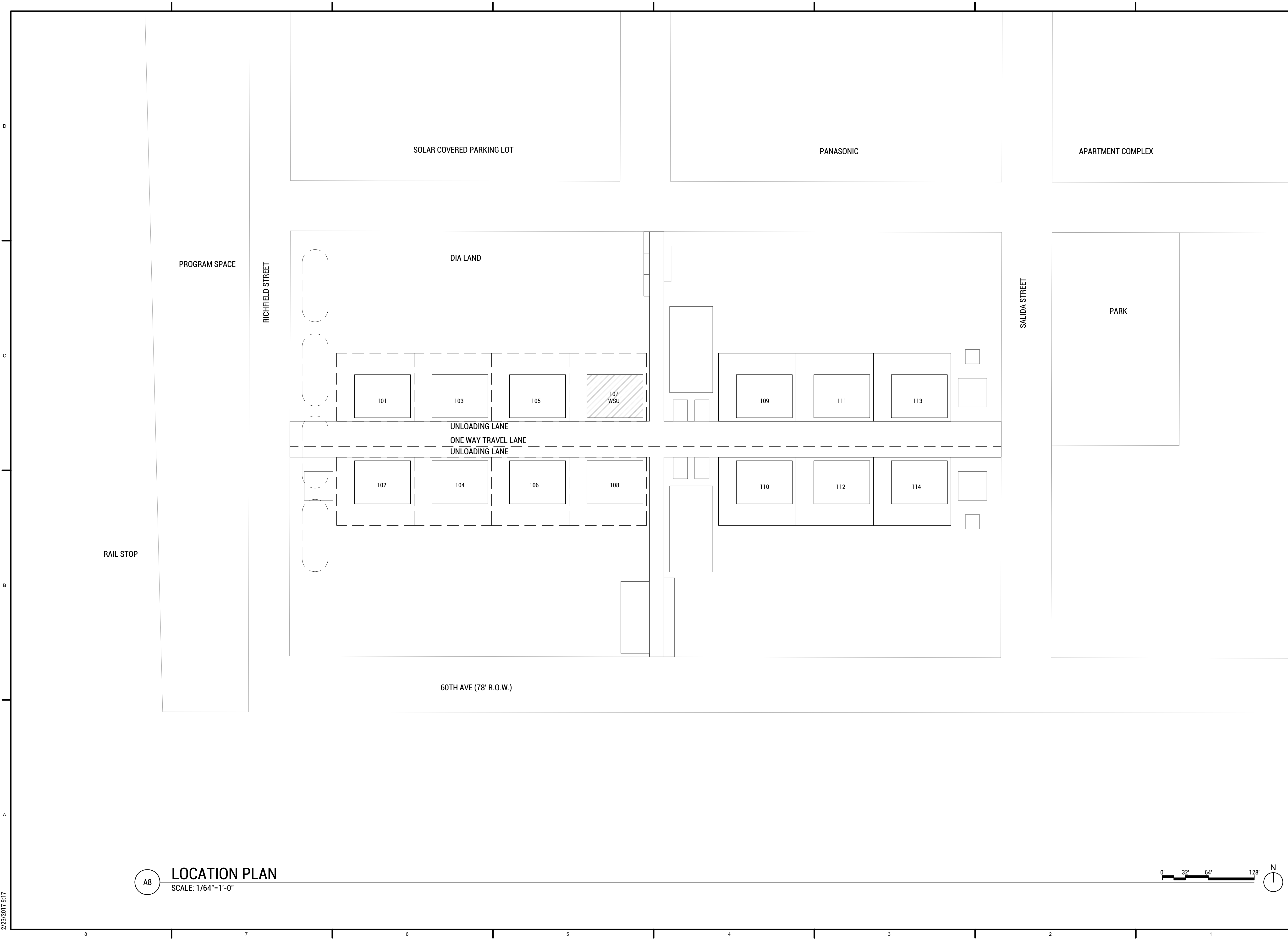
**H-101**

**LIQUID LOCATION AND SPILL CONTAINMENT PLAN**  
 SCALE: 1/4"=1'-0"

A7

7/15/2017 3:11





TEAM NAME: EN CITY  
 ADDRESS: [STREET] SPOKANE, WA [ZIP CODE]  
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LOT NUMBER: LOT #107

SHEET TITLE:

**LOCATION PLAN**

DRAWN BY: DJ CHECKED BY: TG

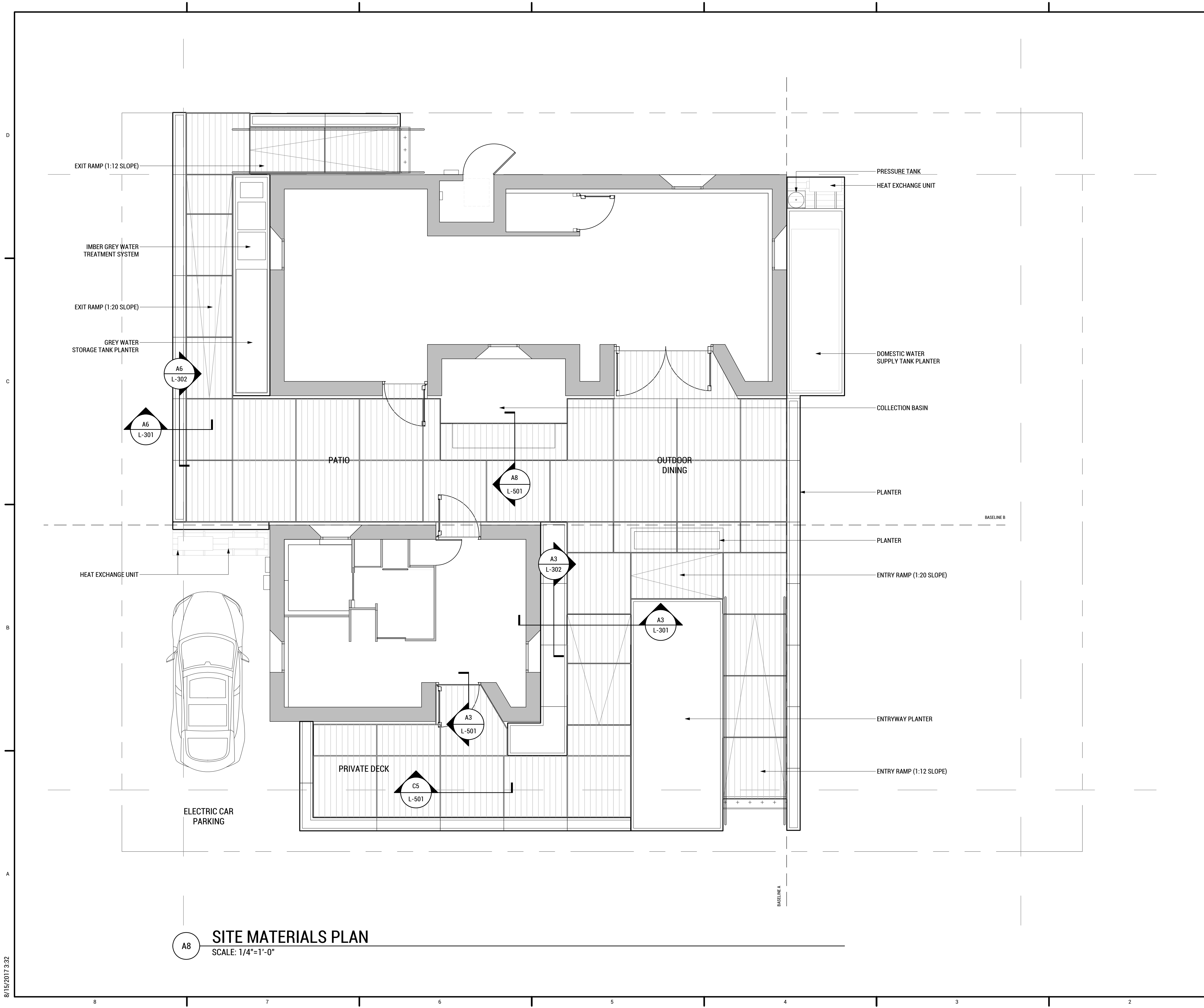
**C-101**

**A8** LOCATION PLAN  
 SCALE: 1/64"=1'-0"



2/25/2017 9:17





**GENERAL SHEET NOTES:**

1. THIS SHEET SHOWS LAYOUT OF ALL DESIGNED ELEMENTS. FOR ELEVATION INFORMATION REFER TO SHEET L-104 (SITE GRADING AND DRAINAGE PLAN)
2. ALL DIMENSIONS ARE TO AND FROM FACE OF WALL, CENTERLINE, OR BASELINE OR ARCHITECTURAL GRIDLINE UNLESS OTHERWISE NOTED.
3. ALL ANGLES ARE 90 OR 45 DEGREES UNLESS OTHERWISE NOTED.

**REFERENCE KEY NOTES:**

**SHEET KEY NOTES:**

**LEGEND:**



WASHINGTON STATE UNIVERSITY

TEAM NAME: EN CITY  
 ADDRESS: [STREET] SPOKANE, WA [ZIP CODE]  
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 CONSULTANTS:  
 TODD BEYREUTHER, P.E.  
 WSU ENVIRONMENTAL HEALTH & SAFETY  
 KATERRA INC.

CLIENT:  
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MARK	DATE	DESCRIPTION
	08/10/2017	FINAL CD SET
	06/23/2017	100% CD SET CHANGES 2
	05/12/2017	100% CD SET CHANGES 1
	04/24/2017	100% CD SET
	02/17/2017	FINAL CHECKSET
	11/15/2016	80% DD SET

LOT NUMBER: LOT #107

SHEET TITLE:

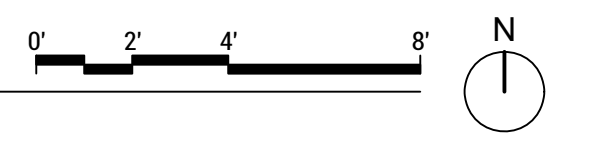
**SITE LANDSCAPE AND MATERIALS PLAN**

DRAWN BY: NM CHECKED BY: MS

**L-101**



**A7 SITE LAYOUT PLAN**  
SCALE: 1/4"=1'-0"



**GENERAL SHEET NOTES:**

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**REFERENCE KEY NOTES:**

Blank space for reference key notes.

**SHEET KEY NOTES:**

Blank space for sheet key notes.

**LEGEND:**

LEGEND:	DESCRIPTION:
	PROPERTY LINE
	BASELINE
	ALIGN FACES
	BUILDING SETBACK
	POINT OF BEGINNING AT THE SOUTHEAST CORNER OF THE COMMUNITY BUILDING



ENCITY



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LOT NUMBER: LOT #107

SHEET TITLE:

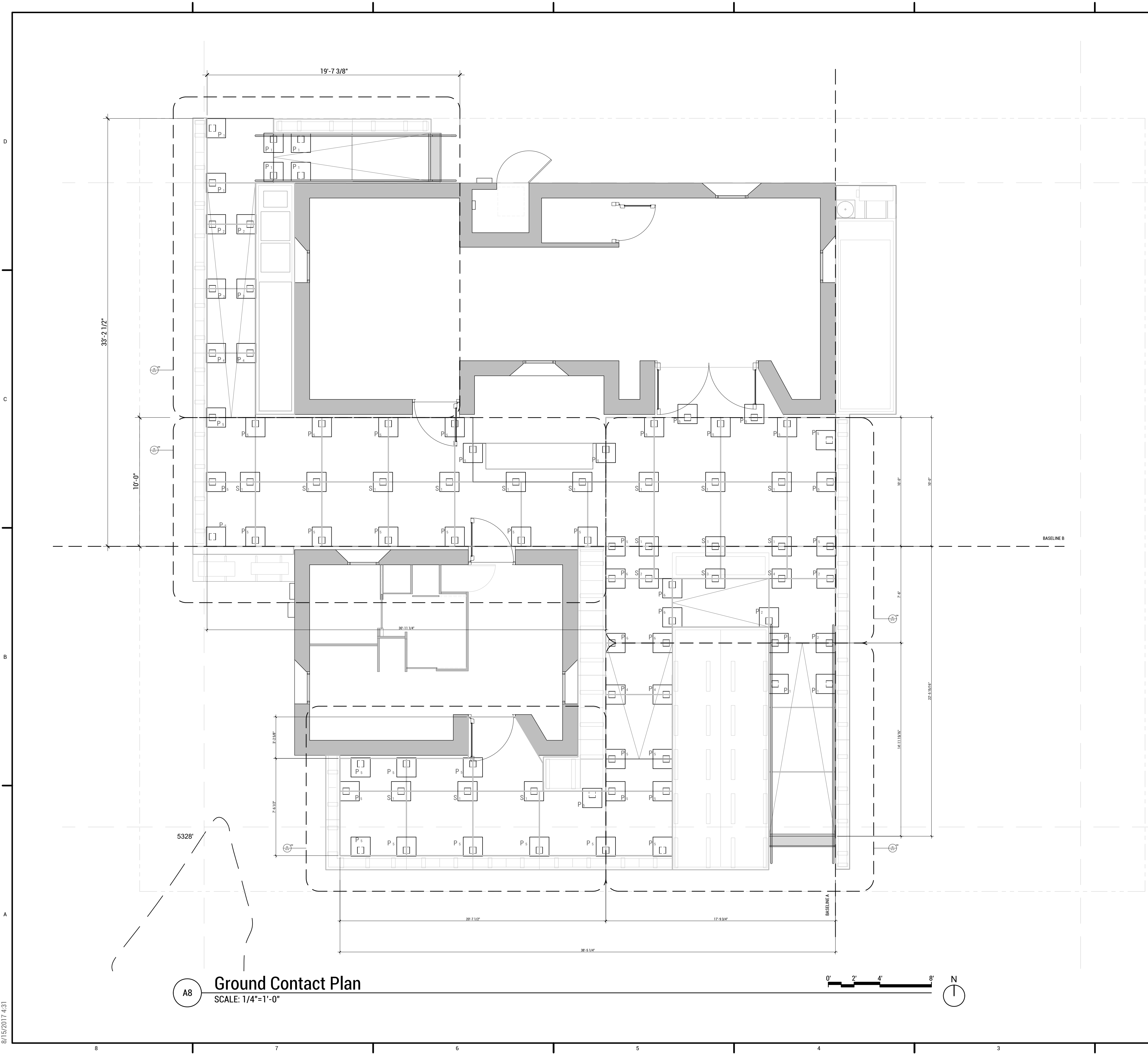
**SITE LAYOUT PLAN**

DRAWN BY: SA CHECKED BY: TG

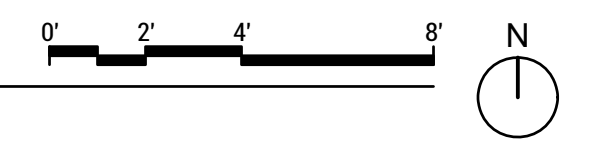
**L-102**

8/15/2017 3:43





**Ground Contact Plan**  
 SCALE: 1/4"=1'-0"



#	SYMBOL	QUANTITY	DESCRIPTION:
P1		8	CENTRAL PIERS INC - 4" PERIMETER DECK PIER PART #38
P2		8	CENTRAL PIERS INC - 6" PERIMETER DECK PIER PART #40
P3		2	CENTRAL PIERS INC - 8" PERIMETER DECK PIER PART #42
P4		4	CENTRAL PIERS INC - 12" PERIMETER DECK PIER PART #5
P5		39	CENTRAL PIERS INC - 14" PERIMETER DECK PIER PART #7
P6		5	CENTRAL PIERS INC - 10" PERIMETER DECK PIER PART #3
S1		17	CENTRAL PIERS INC - 14" STANDARD DECK PIER PART #6
S2		1	CENTRAL PIERS INC - 10" STANDARD DECK PIER PART #1
S3		1	CENTRAL PIERS INC - 8" STANDARD DECK PIER PART #41
S4		3	CENTRAL PIERS INC - 6" STANDARD DECK PIER PART #39
X		88	CENTRAL PIERS INC - SADDLE TOP PIER TOP PART #238
NOTES:	-ALL PIERS WILL UTILIZE A SADDLE TOP FOR SUPPORT OF DECK MODULES (PART # 238) -ALL PIERS TO BE PLACED ON 1/2" PLYWOOD		



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	11/15/2016	80% DD SET

LOT NUMBER: LOT #107

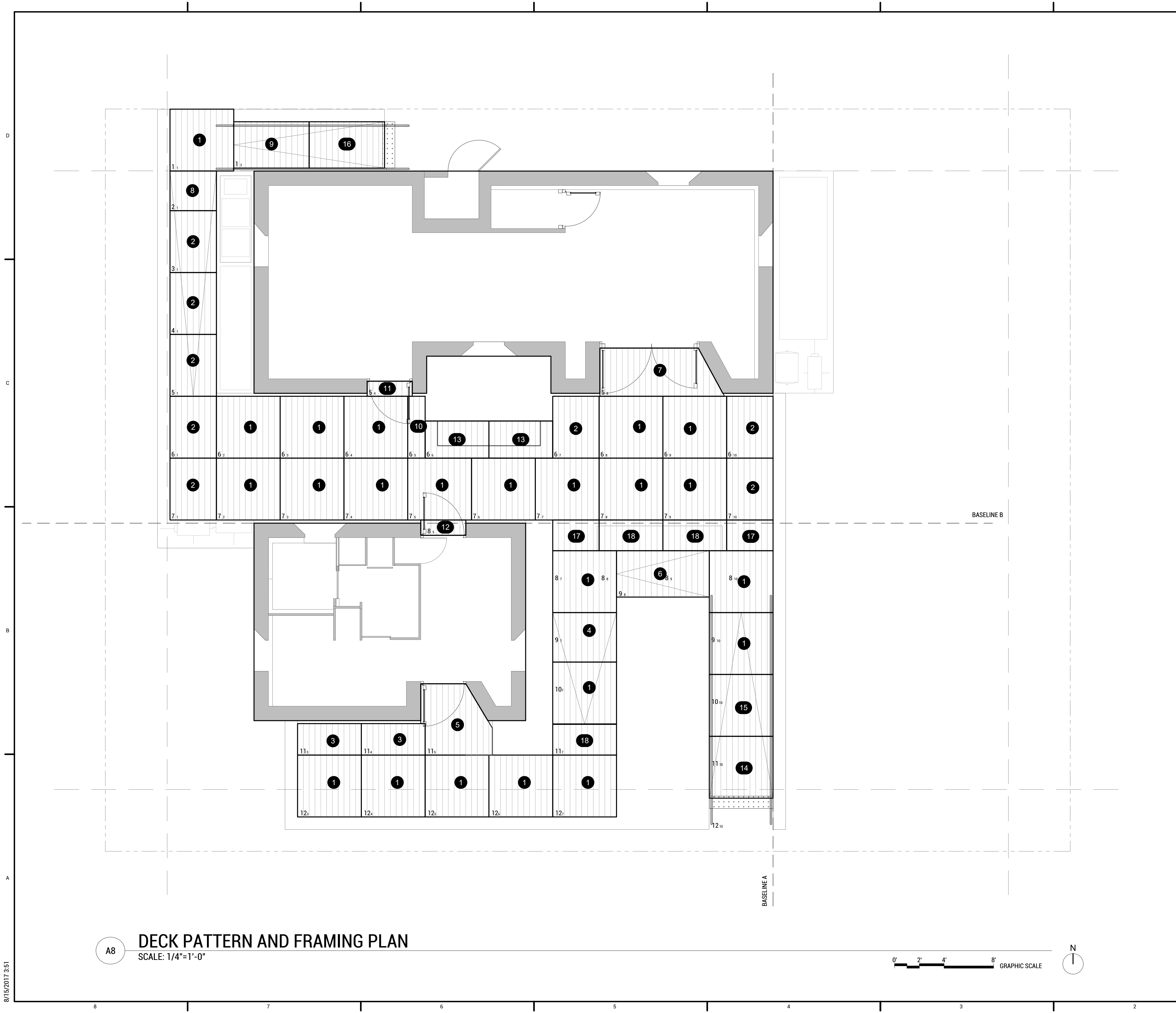
SHEET TITLE:

**GROUND CONTACT PLAN**

DRAWN BY: SA CHECKED BY: TG

**L-103**

8/15/2017 4:31



**GENERAL SHEET NOTES:**

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3. ALL ANGLES ARE 90 OR 45 DEGREES UNLESS OTHERWISE NOTED.

**REFERENCE KEY NOTES:**

1. DECK PATTERN CONTINGENT ON GRID ORIENTED FROM TOP LEFT TO BOTTOM RIGHT. EXAMPLE: 12<sub>10</sub> (DOWN 12, OVER 10)

**SHEET KEY NOTES:**

**MODULE TYPES LEGEND:**

#	DESCRIPTION:	QT
1	5' 0" X 5' 1-7/8" STANDARD MODULE	23
2	5' 0" X 3' 9" MODULE	08
3	2' 6-1/2" X 5' 1-7/8" MODULE	02
4	4' 0" X 5' 1-7/8" MODULE	01
5	TINY HOME ENTRY MODULE	01
6	3' 9" X 7' 6" MODULE	01
7	CLUBHOUSE ENTRY MODULE	01
8	3' 9" X 3' 2-1/2" MODULE	01
9	6' 1-1/8" X 3' 7-7/8" MODULE	01
10	1' 4-7/8" X 5' 0" MODULE	01
11	3' 7-3/4" X 1' 2-5/8" MODULE	01
12	3' 7-3/4" X 1' 2-13/16" MODULE	01
13	3' 0" X 5' 1-7/8" MODULE	02
14	5' 0" X 5' 1-7/8" RAMP	01
15	5' 0" X 5' 1-7/8" RAMP	01
16	6' 1-1/8" X 3' 7-7/8" RAMP	01
17	2' 5-3/4" X 3' 9" HALF MODULE	02
18	2' 5-3/4" X 5' 1-7/8" HALF MODULE	02



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LOT NUMBER: LOT #107

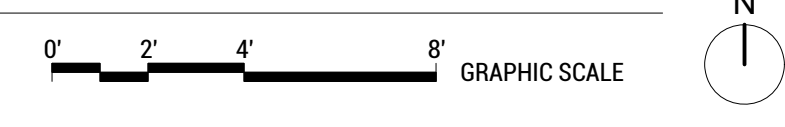
SHEET TITLE:

**DECK PATTERN AND FRAMING PLAN**

DRAWN BY: SA CHECKED BY: TG

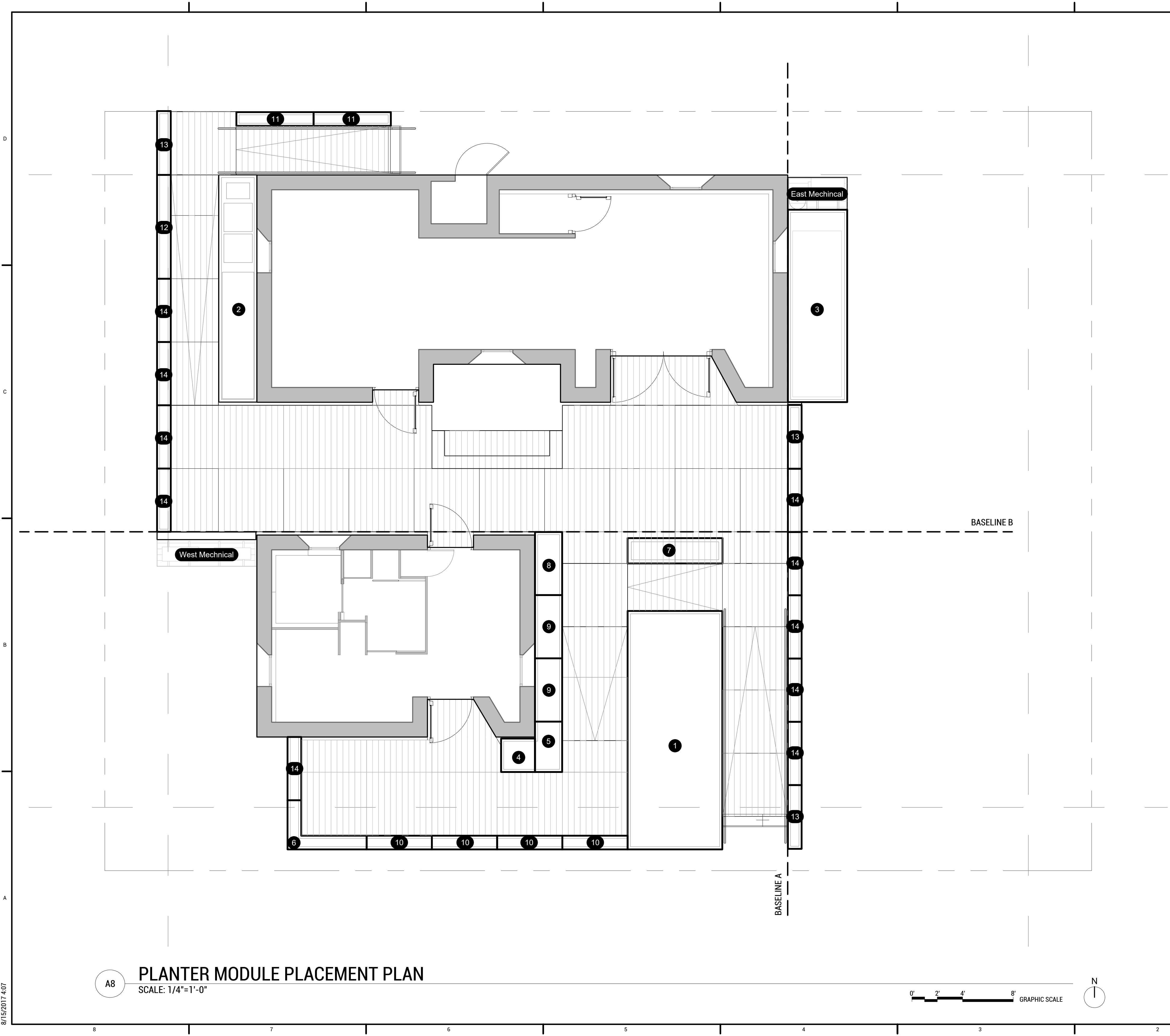
**L-104**

**DECK PATTERN AND FRAMING PLAN**  
 SCALE: 1/4"=1'-0"



8/15/2017 3:51





A8 **PLANTER MODULE PLACEMENT PLAN**  
SCALE: 1/4"=1'-0"

**GENERAL SHEET NOTES:**

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**REFERENCE KEY NOTES:**

1. DECK PATTERN CONTINGENT ON GRID ORIENTED FROM TOP LEFT TO BOTTOM RIGHT. EXAMPLE: 12<sub>10</sub> (DOWN 12, OVER 10)

**SHEET KEY NOTES:**

**MODULE TYPES LEGEND:**

MODULE NUMBER	QTY.	CUTSHEET
1	1	L-701
2	1	L-702
3	1	L-703
4	1	L-704
5	1	L-705
6	1	L-706
7	1	L-707
8	1	L-708
9	2	L-709
10	4	L-710
11	2	L-711
12	1	L-712
13	3	L-713
14	10	L-714
EAST MECH.	1	L-750
WEST MECH.	1	L-751



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LOT NUMBER: LOT #107

SHEET TITLE:

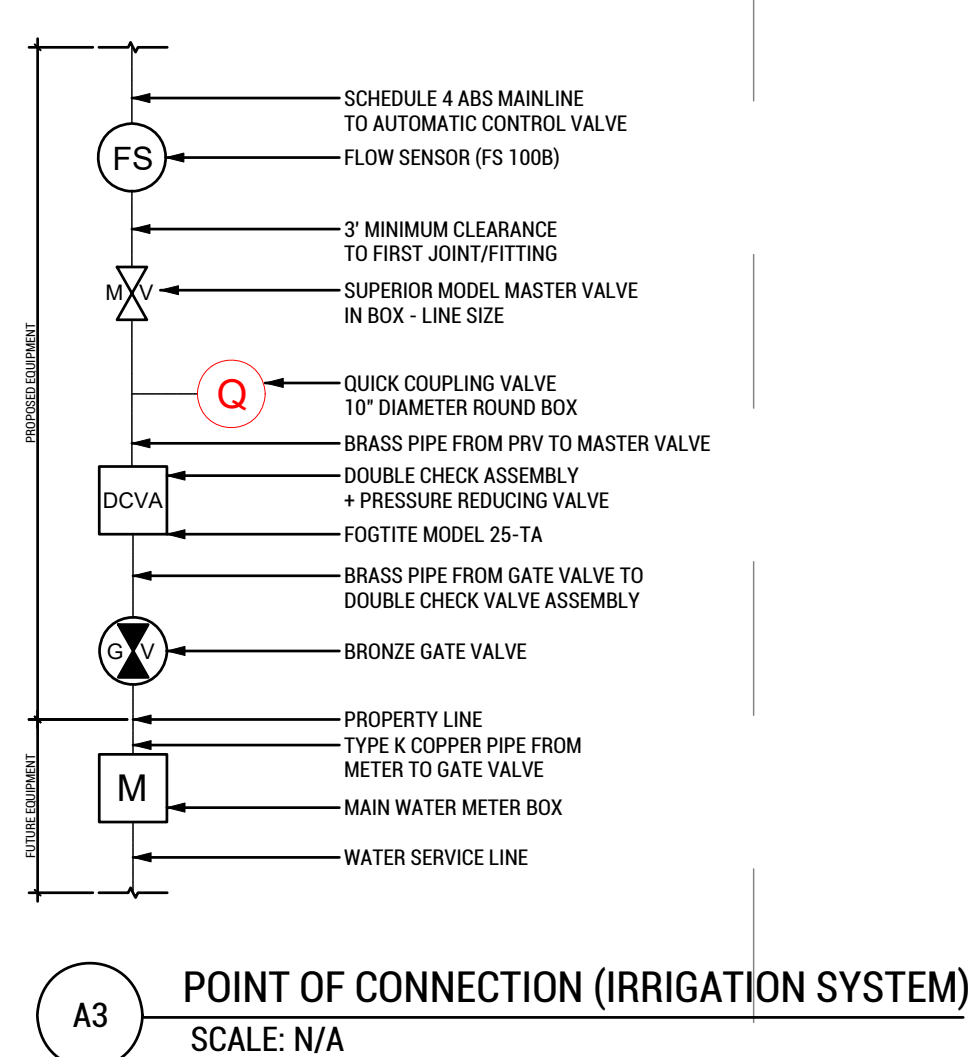
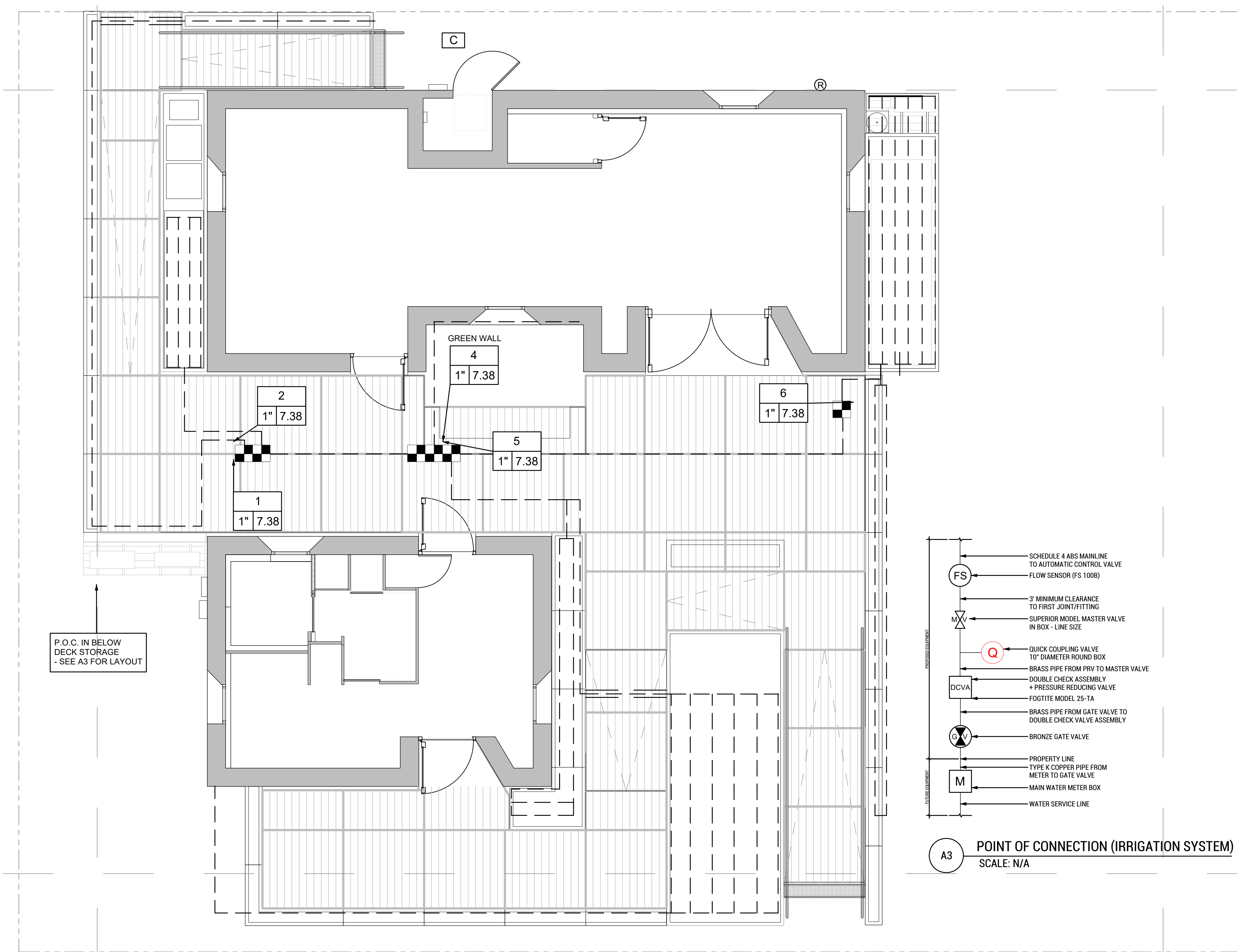
**PLANTER MODULE PLACEMENT PLAN**

DRAWN BY: MT CHECKED BY: SA

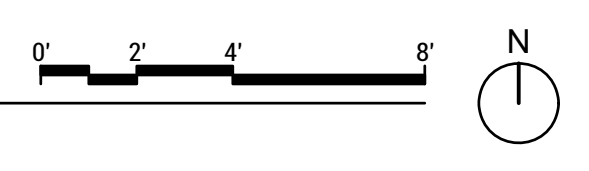
**L-105**

8/15/2017 4:07

8/15/2017 4:10



**A8 SITE IRRIGATION PLAN**  
SCALE: 1/4"=1'-0"



**GENERAL IRRIGATION NOTES:**

1. THE IRRIGATION SYSTEM IS BASED ON THE MINIMUM OPERATING PRESSURE & THE MAXIMUM FLOW DEMAND SHOWN ON THE IRRIGATION DRAWINGS. THE IRRIGATION CONTRACTOR SHALL TEST STATIC WATER PRESSURE AT THE NEW IRRIGATION POINT OF CONNECTION PRIOR TO CONSTRUCTION.
2. IRRIGATION DRAWINGS ARE DIAGRAMMATIC. ALL PIPING, VALVES, ETC., SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS. AVOID ANY CONFLICTS BETWEEN THE IRRIGATION SYSTEM, PLANTING, SITE LIGHTING, UTILITIES AND ARCHITECTURAL FEATURES.
3. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF SLEEVES AND CHASES UNDER DECKING, THROUGH WALLS, AND FOR ALL CONTROL WIRE. THIS INCLUDES EXIST. PIPING AS NOTED ON THE PLANS.
4. ANY DAMAGED PAVING OR OTHER SURFACES OR IMPROVEMENTS NOT BE DESIGNATED FOR DEMOLITION SHALL BE REPLACED TO MATCH EXISTING.
5. THE CONTRACTOR SHALL ADJUST EACH PRESSURE COMPENSATING REMOTE CONTROL VALVE AND PRESSURE REGULATOR FOR OPTIMUM PERFORMANCE AND TO COMPENSATE FOR PRESSURE AND FRICTION LOSS. THE CONTRACTOR SHALL FLUSH AND ADJUST ALL DRIPS FOR OPTIMUM PERFORMANCE.
6. FILL, FINE GRADE, RESOD &/OR RESEED ALL AREAS DISTURBED BY REMOVAL OF EXISTING IRRIGATION EQUIPMENT. REFERENCE PLANTING PLAN FOR CORRECT SEED MIXTURE.
7. ALL SLEEVES UNDER VEHICULAR DRIVES OR PATHS SHALL BE DUCTILE IRON.
8. ALL SLEEVING SHALL BE INSPECTED BY SPR PLUMBING SHOP.

SYMBOL	MANUFACTURER/MODEL /DESCRIPTION
	1" WGV-X WATTS GATE VALVE
	XCZ-100-PRF 1" DRIP VALVE WITH 1" PR FILTER
	RAINBIRD FS-1000-B 1" FLOW SENSOR
	DECAGON DEVICES MICROCLIMATE MONITORING SYSTEM WITH EMSOG SOLAR
	HC-1200i 12-STATION 120 VAC INDOOR PLASTIC CONTROLLER
	BUCKNER SUPERIOR 3200 1"
	1850-QT DC 1" FEBCO SERIES 850 DOUBLE CHECK VALVE ASSEMBLY
	BUCKNER-SUPERIOR QB44-LRC 1" TWO PIECE, SINGLE SLOT BRASS QUICK COUPLING VALVE W/ LOCKING YELLOW TUFF
	RAINBIRD XFCV ON-SURFACE DRIP LINE
	SCHEDULE 40 ABS MAINLINE
	SCH 40 ABS SLEEVE, SIZE INDICATED ON PLAN
	SCH 40 ABS SUPPLY LATERAL LINES

**VALVE CALLOUT**

#	VALVE NUMBER
# #	VALVE FLOW
#	VALVE SIZE



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 CONSULTANTS:  
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 WSU ENVIRONMENTAL HEALTH & SAFETY  
 KATERRA INC.

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	02/17/2017	FINAL CHECKSET
	11/15/2016	80% DD SET

LOT NUMBER: LOT #107

SHEET TITLE:

**SITE IRRIGATION PLAN**

DRAWN BY: V.S. CHECKED BY: MS

**L-106**



GENERAL NOTES:  
 PLANT PALETTE REPRESENTED ON PLAN  
 COORELATES TO SITE PLANT LIST ON SHEET  
 L-107.  
 THE REPRESENTATION SHAPES IN THIS PLAN  
 REFER TO THE PLANTS POT SIZE NOT PLANTS  
 VEGETATION SPREAD.

KEYNOTES:



TEAM NAME: EN CITY  
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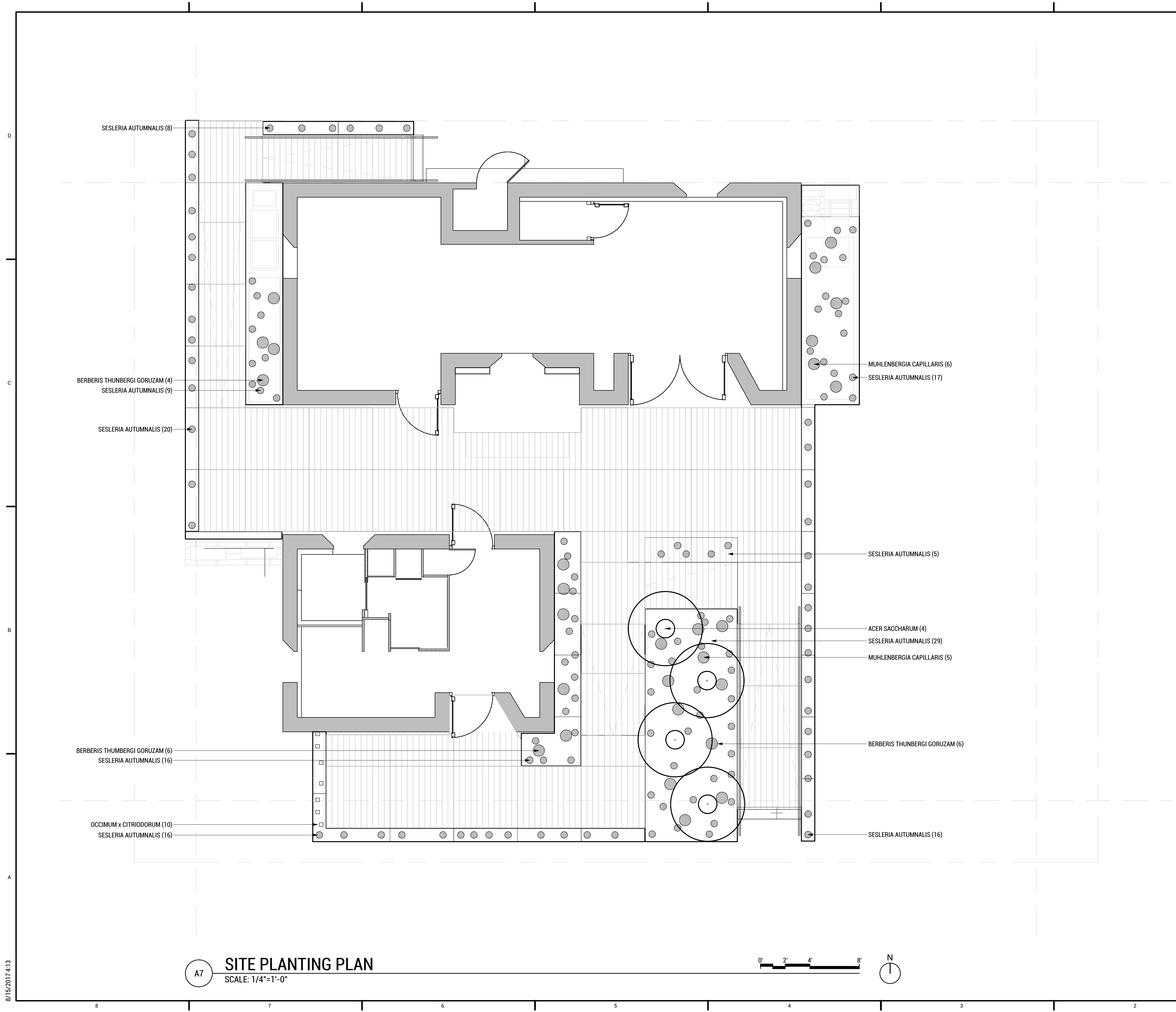
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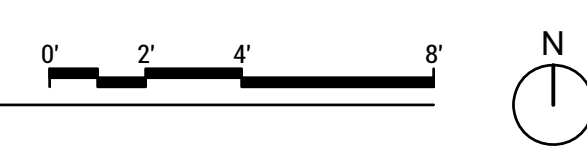
**SITE PLANTING PLAN**

DRAWN BY: SA CHECKED BY: MS

**L-107**



**A7 SITE PLANTING PLAN**  
 SCALE: 1/4"=1'-0"



8/15/2017 4:13







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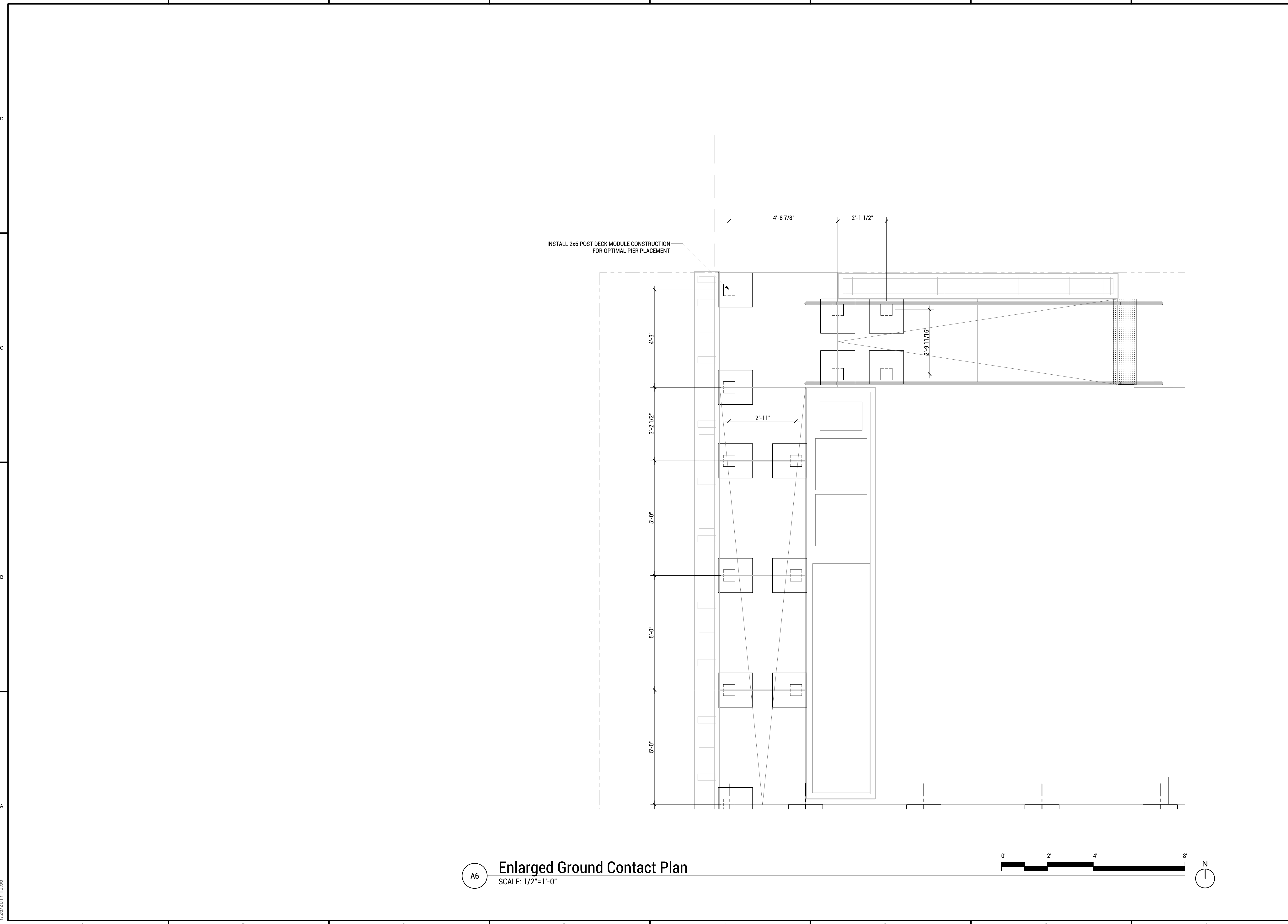
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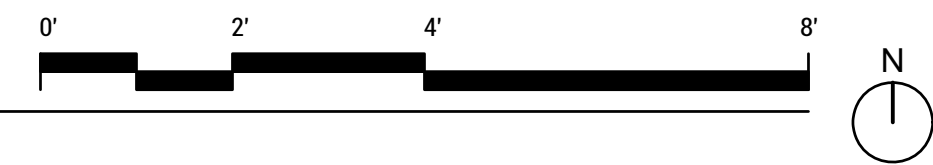
# ENLARGED GROUND CONTACT PLAN

DRAWN BY: SA CHECKED BY: TG

## L-110



**Enlarged Ground Contact Plan**  
 SCALE: 1/2"=1'-0"



7/26/2017 10:56



TEAM NAME: EN CITY  
 ADDRESS: [STREET]  
 SPOKANE, WA [ZIP CODE]  
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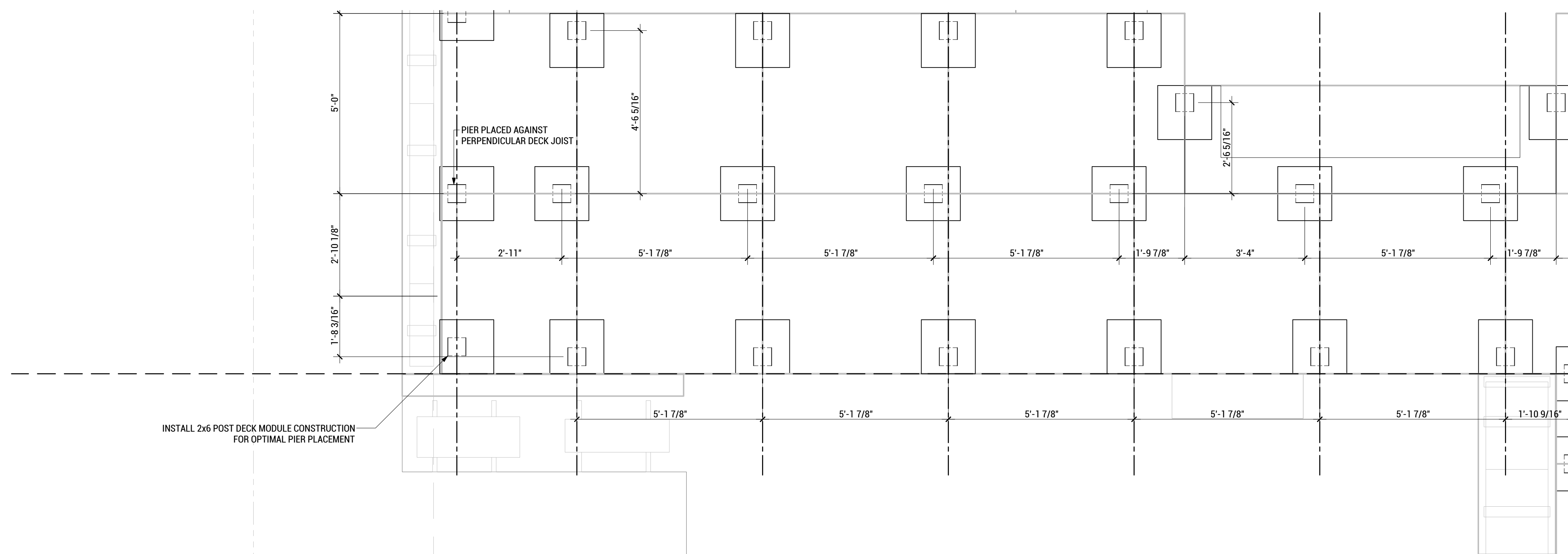
LOT NUMBER: LOT #107

SHEET TITLE:

**ENLARGED  
GROUND CONTACT PLAN**

DRAWN BY: SA CHECKED BY: TG

**L-111**



**Enlarged Ground Contact Plan**  
 SCALE: 1/2"=1'-0"







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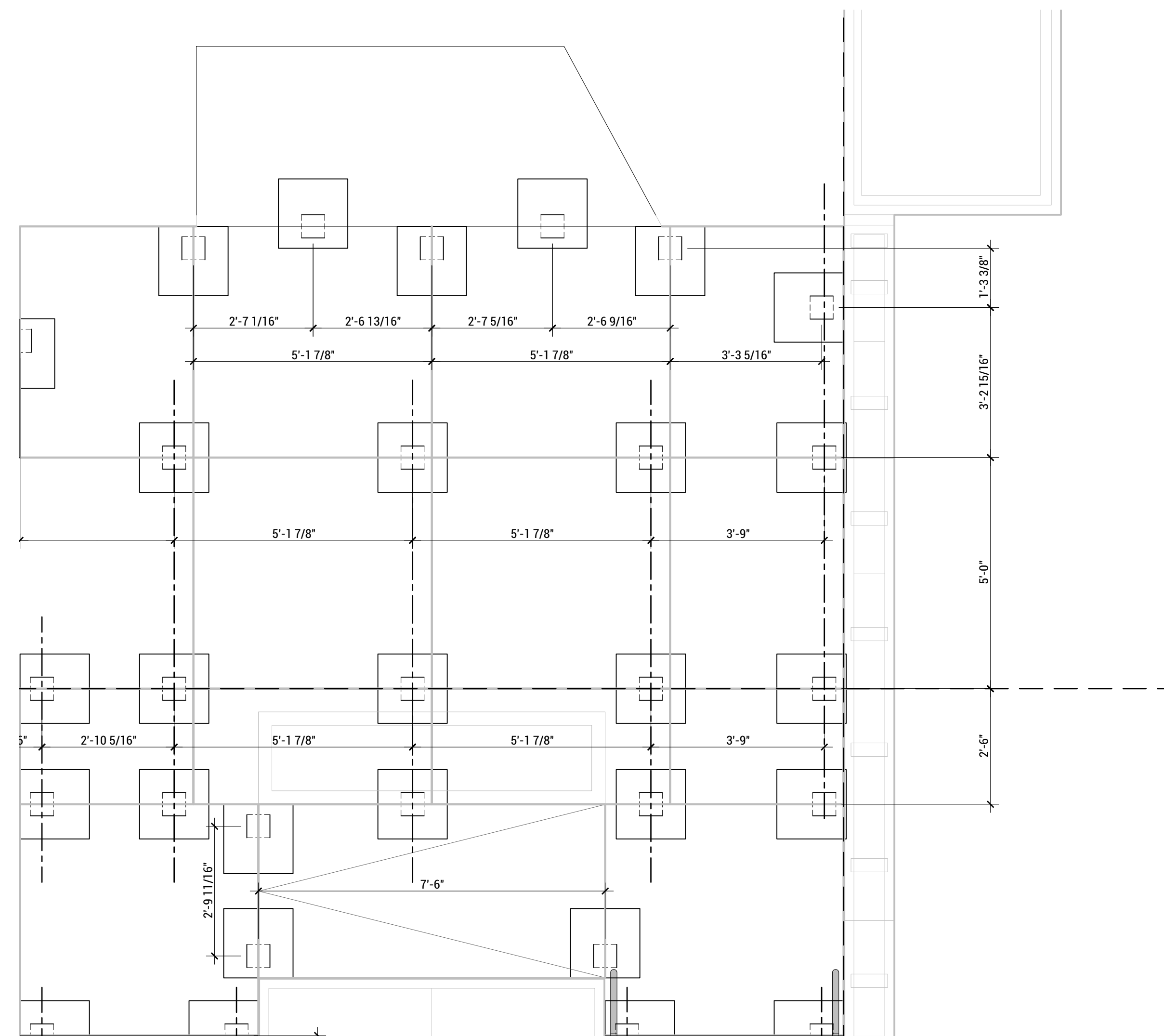
LOT NUMBER: LOT #107

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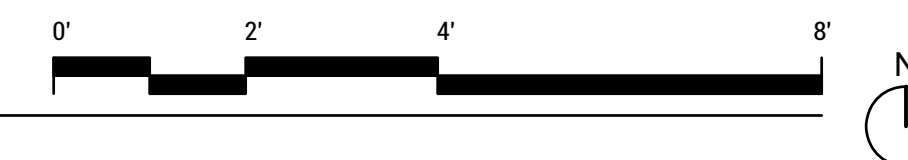
ENLARGED  
GROUND CONTACT PLAN

DRAWN BY: SA CHECKED BY: TG

L-112



A5 Enlarged Ground Contact Plan  
 SCALE: 1/2"=1'-0"





TEAM NAME: EN CITY  
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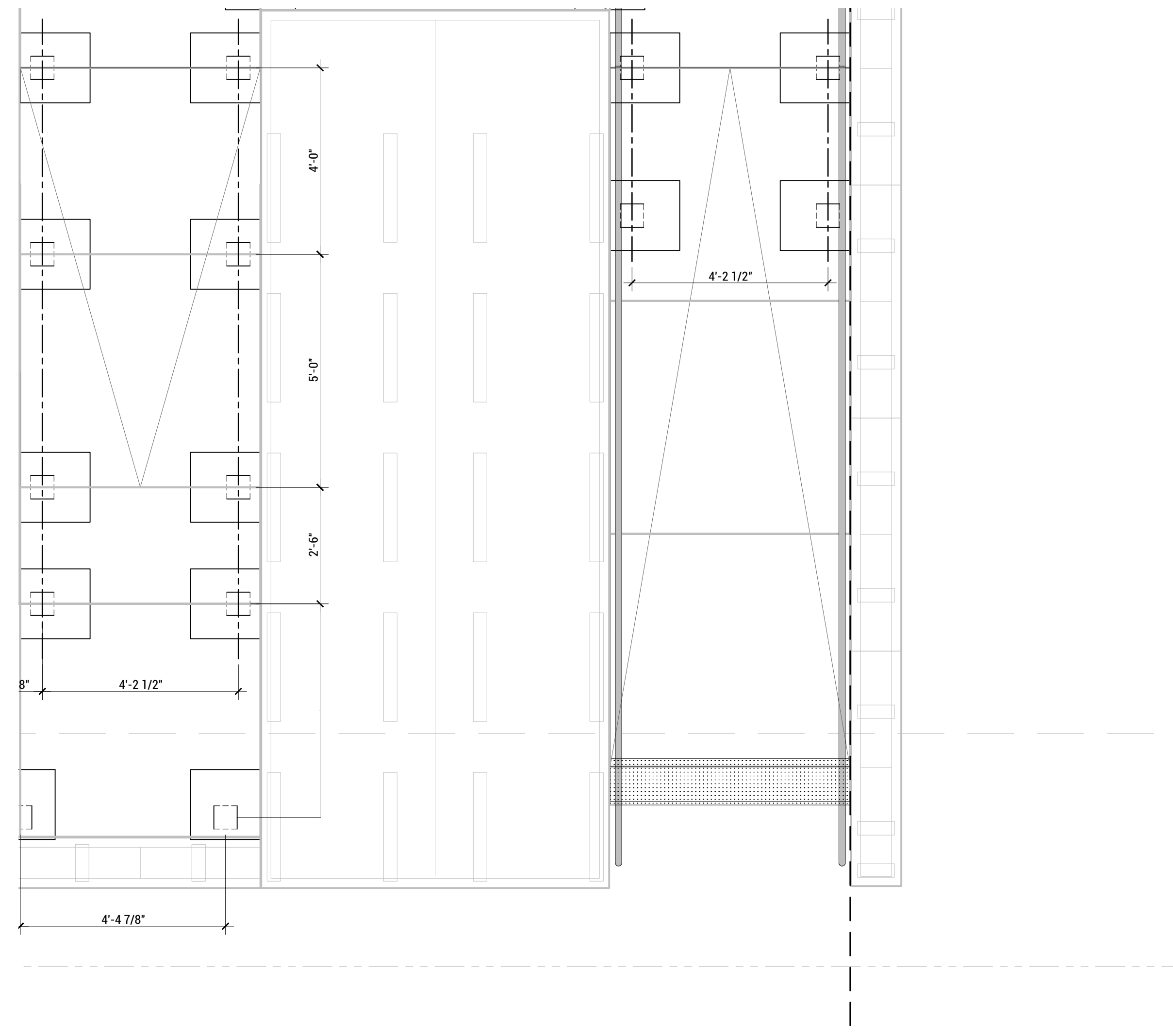
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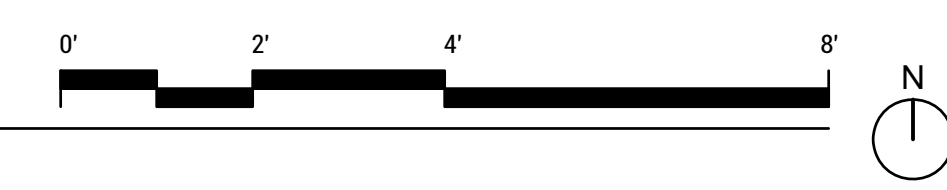
# ENLARGED GROUND CONTACT PLAN

DRAWN BY: SA CHECKED BY: TG

## L-113



**Enlarged Ground Contact Plan**  
 SCALE: 1/2"=1'-0"



7/26/2017 10:56

8 7 6 5 4 3 2 1





TEAM NAME: EN CITY  
 ADDRESS: [STREET]  
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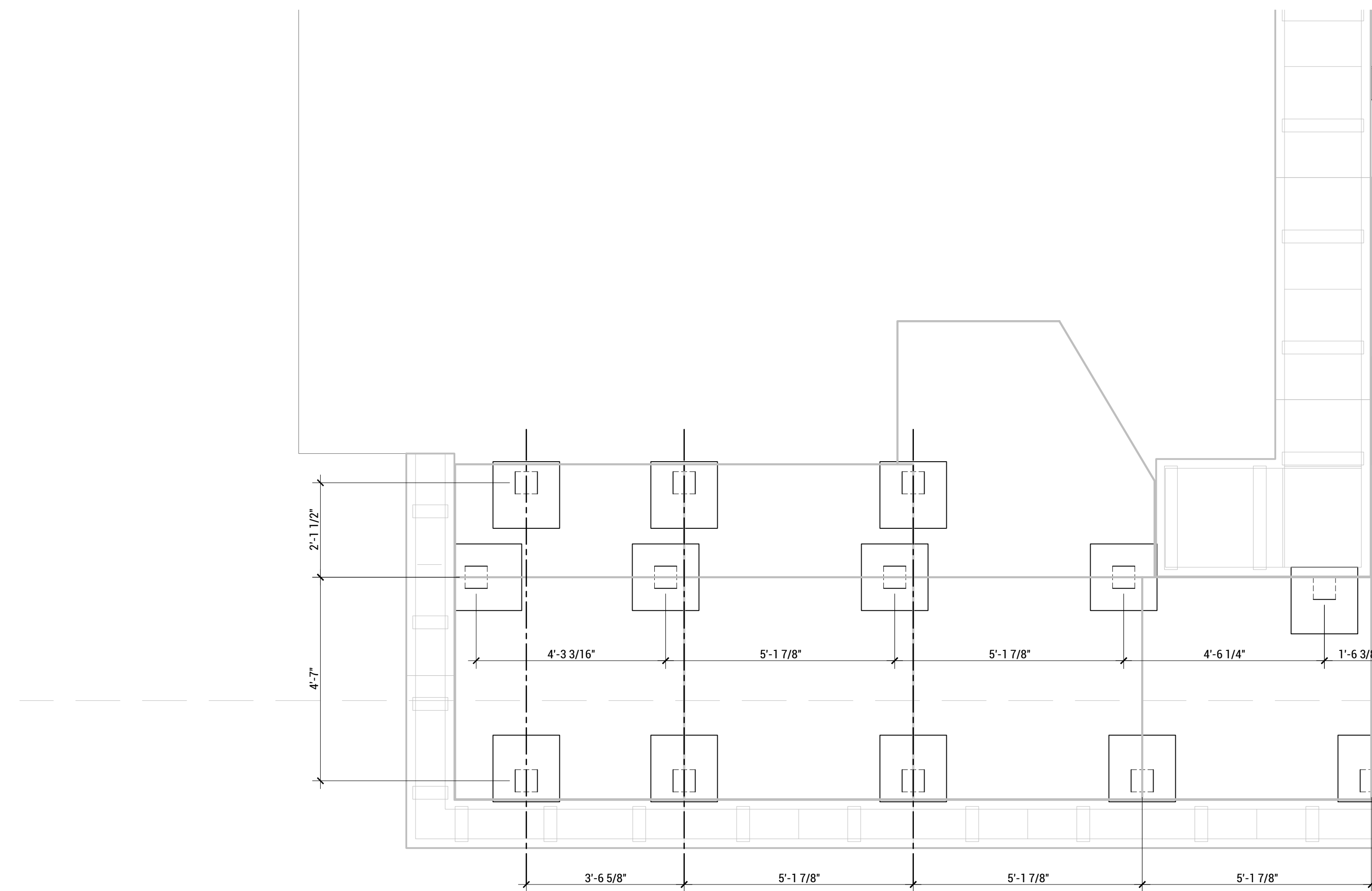
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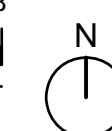
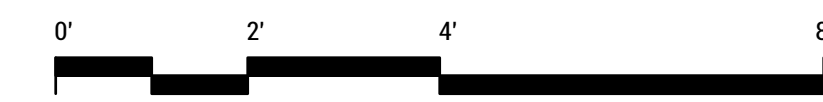
**ENLARGED  
GROUND CONTACT PLAN**

DRAWN BY: SA CHECKED BY: TG

**L-114**



**Enlarged Ground Contact Plan**  
 SCALE: 1/2"=1'-0"





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 KATERRA INC.

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	05/12/2017	100% CD SET CHANGES 1
	04/24/2017	100% CD SET
	02/17/2017	FINAL CHECKSET
	11/15/2016	80% DD SET

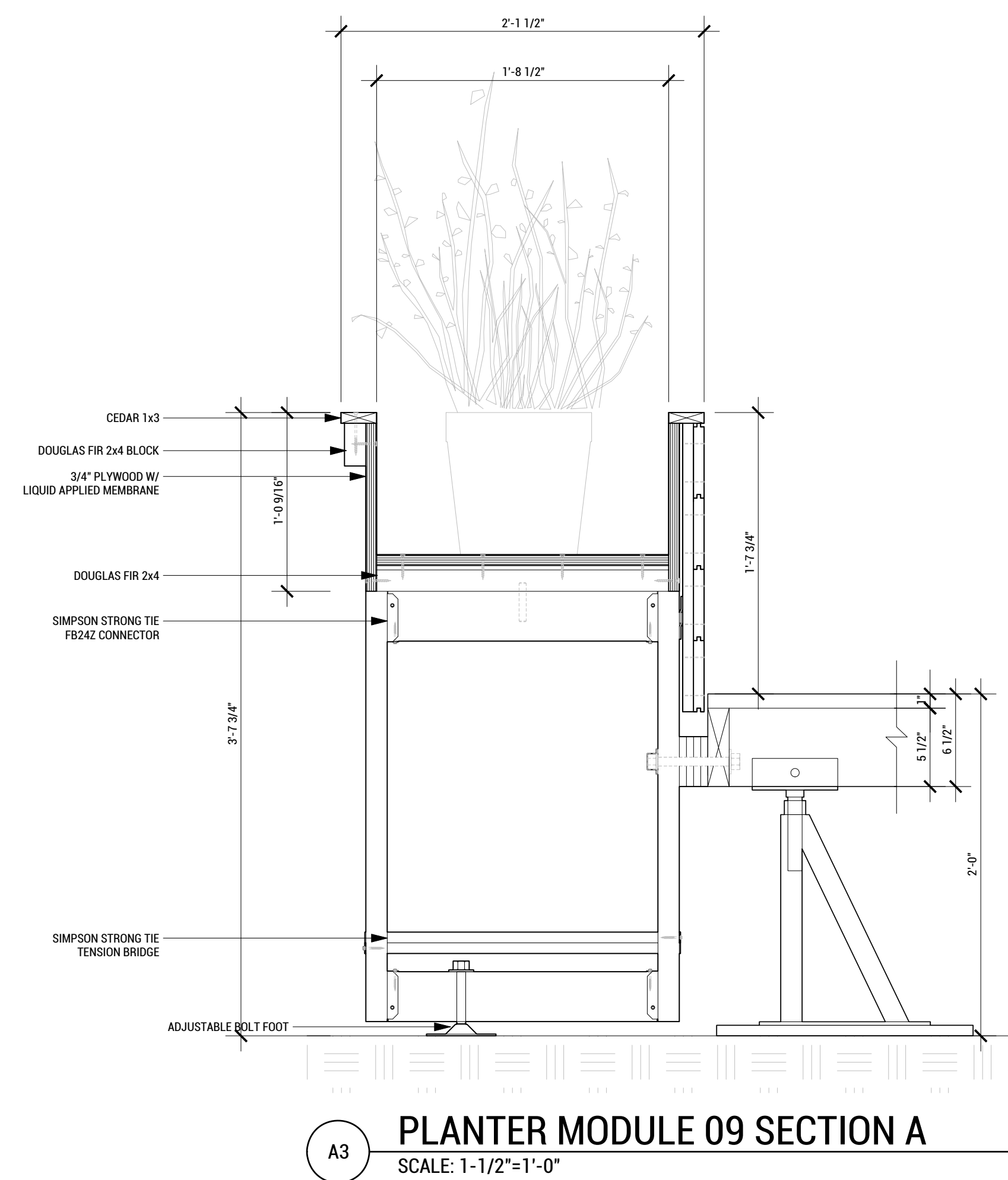
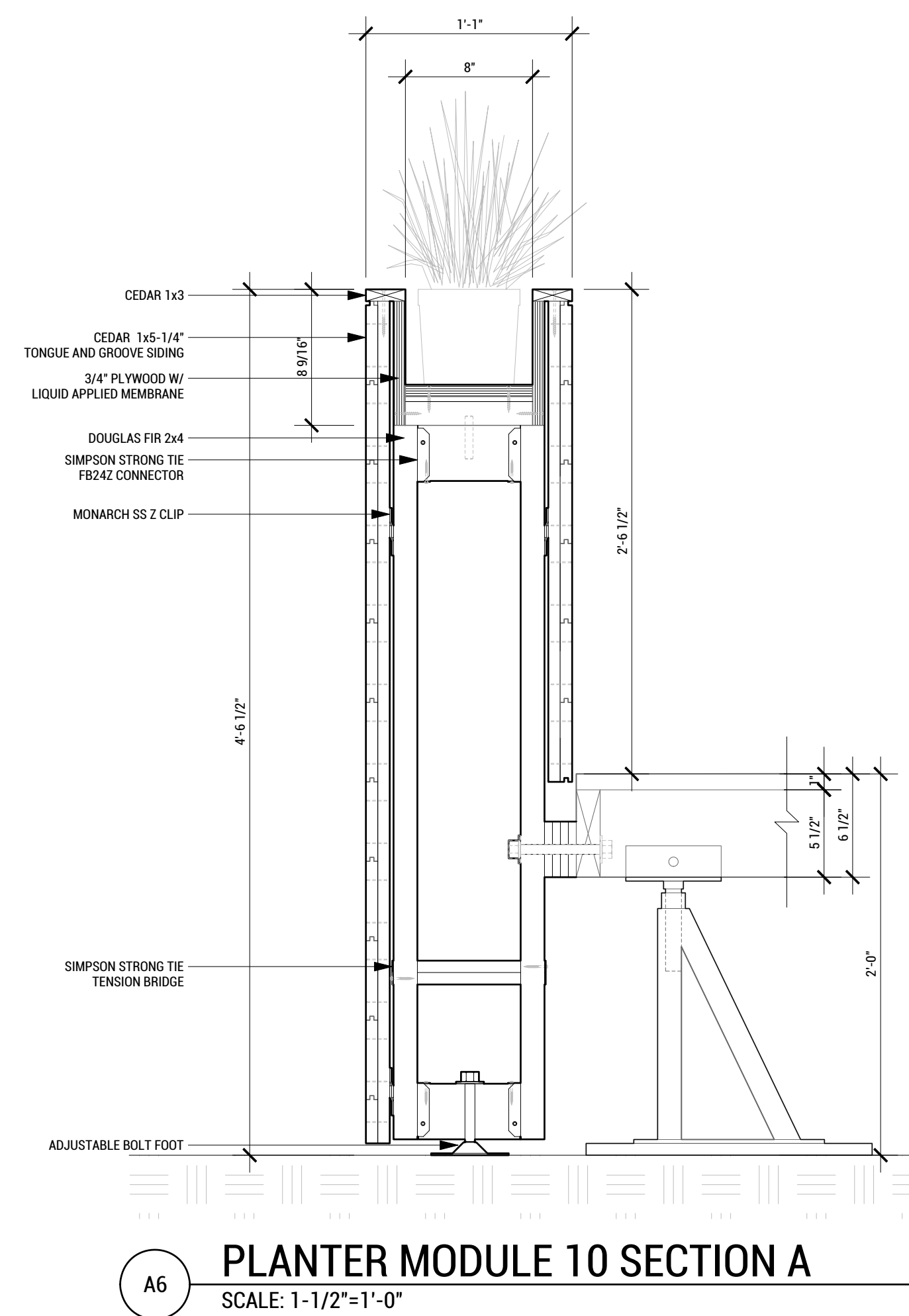
LOT NUMBER: LOT #107

SHEET TITLE:

**PLANTER SECTIONS**

DRAWN BY: SA CHECKED BY: xx

**L-301**







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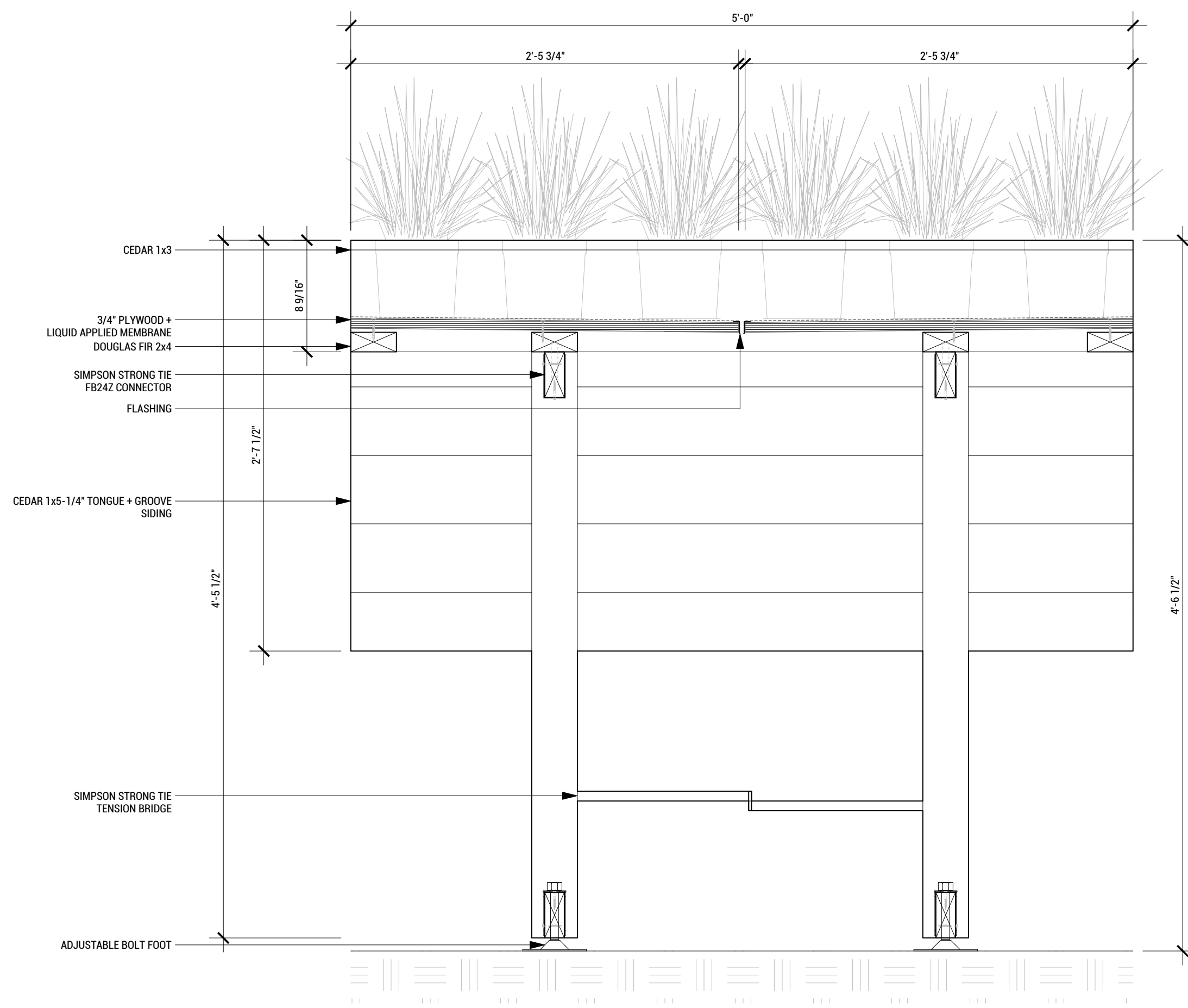
LOT NUMBER: LOT #107

SHEET TITLE:

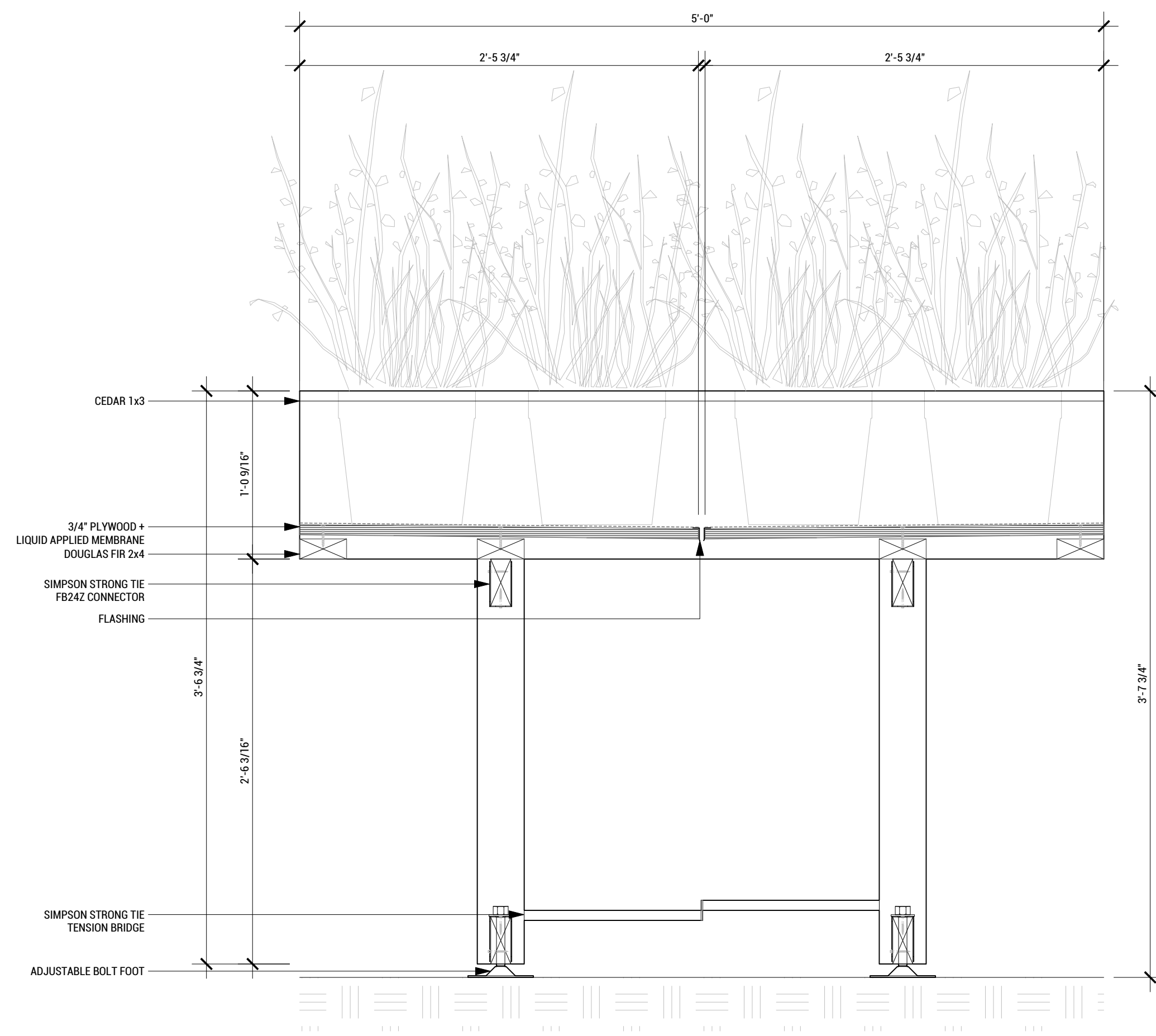
PLANTER SECTIONS

DRAWN BY: SA CHECKED BY: xx

L-302



A6 PLANTER MODULE 10 SECTION B  
 SCALE: 1-1/2"=1'-0"



A3 PLANTER MODULE 09 SECTION B  
 SCALE: 1-1/2"=1'-0"

8/15/2017 4:16



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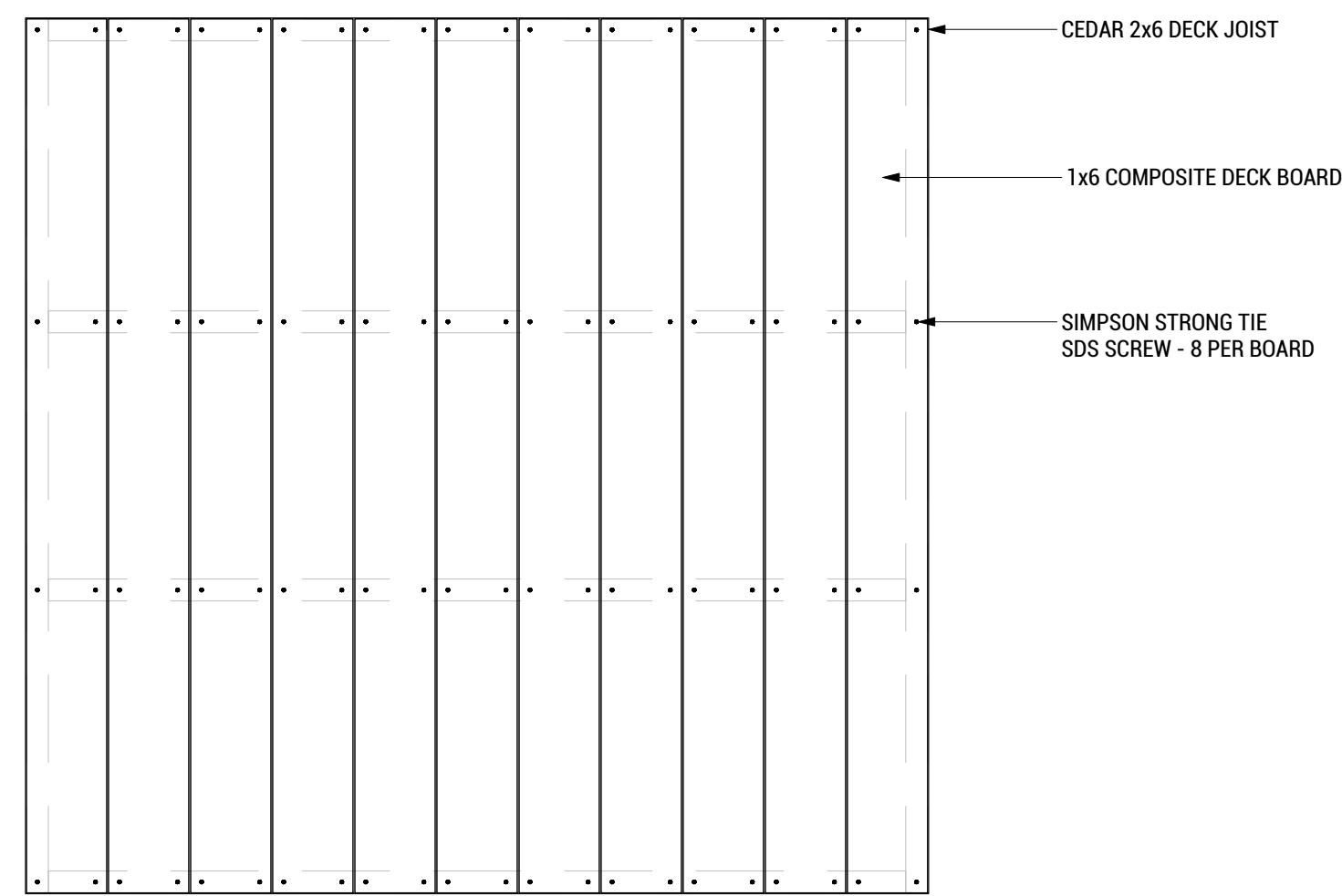
LOT NUMBER: LOT #107

SHEET TITLE:

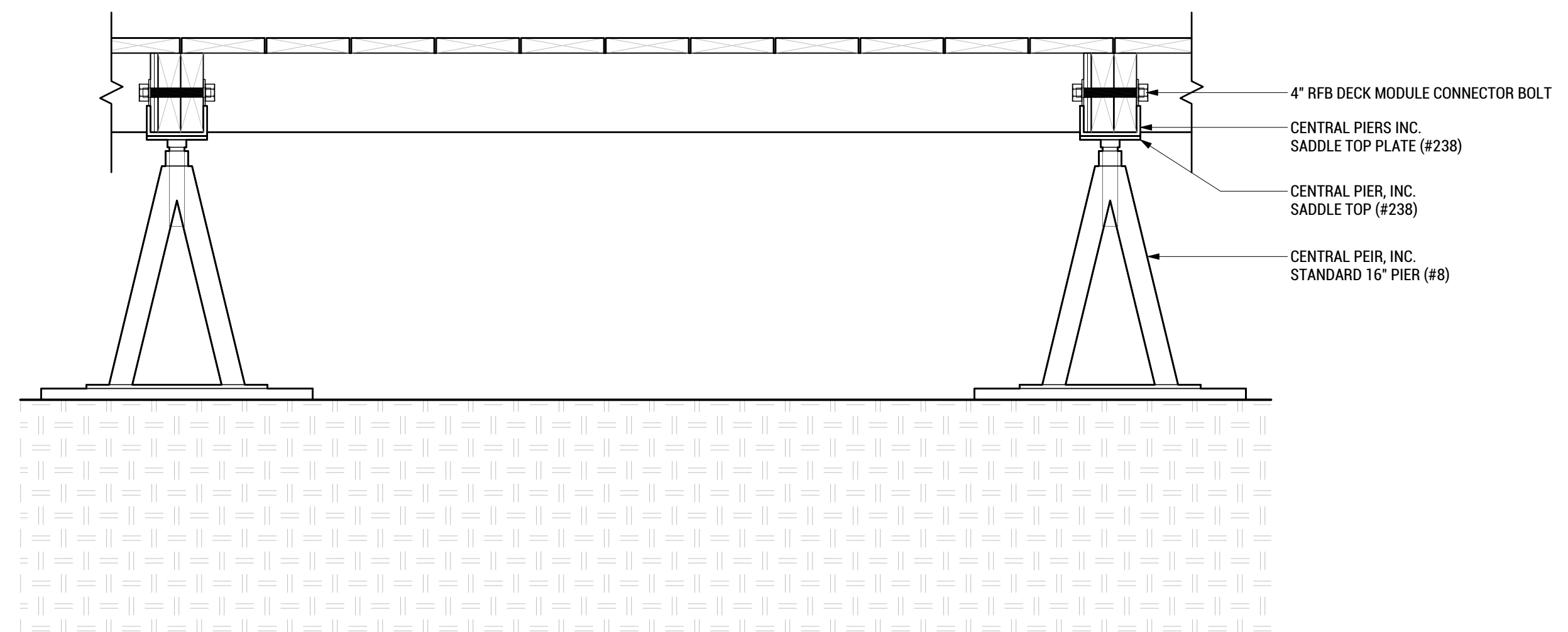
**MODULAR DECK  
 DETAILS**

DRAWN BY: SA CHECKED BY: MT

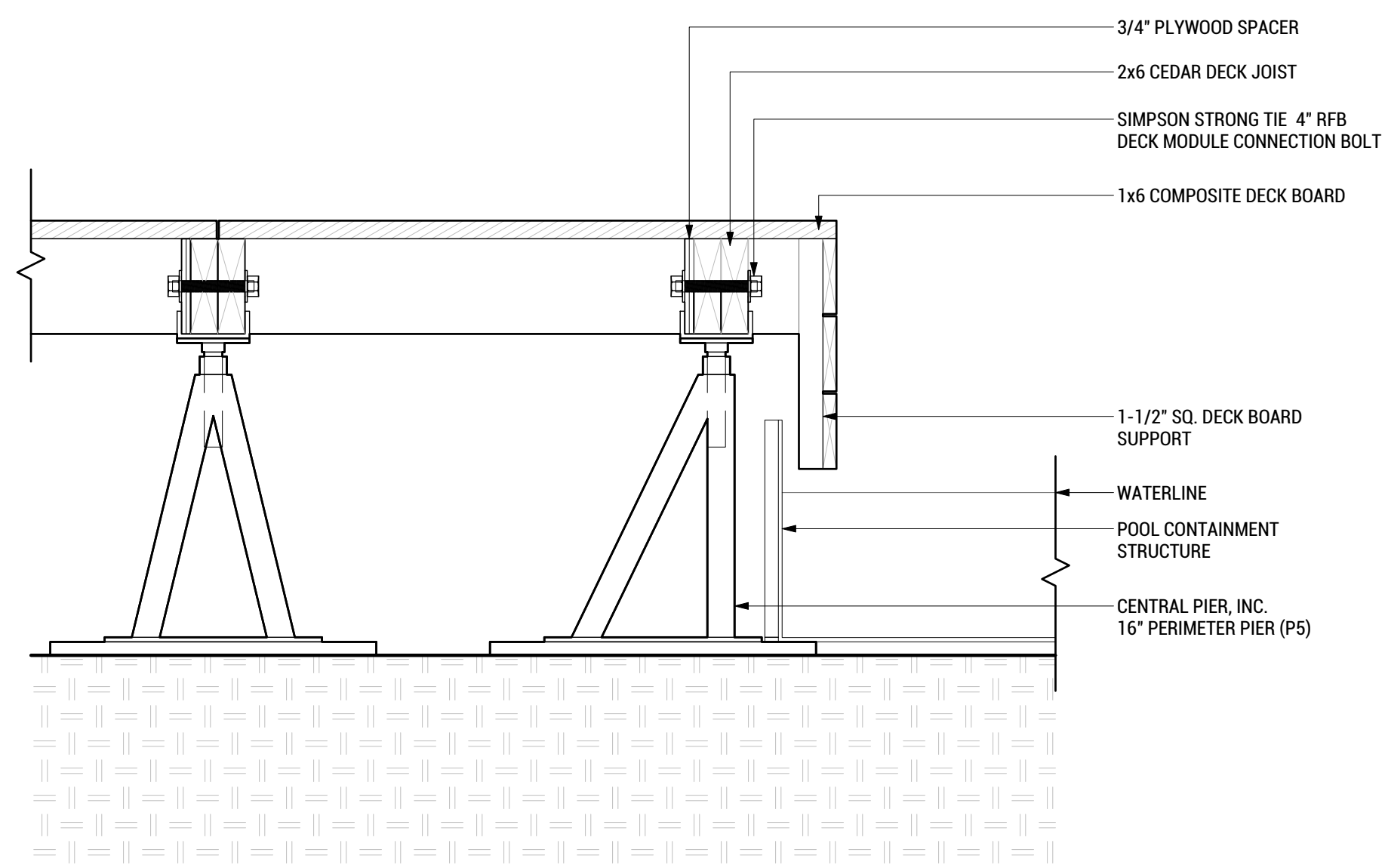
**L-501**



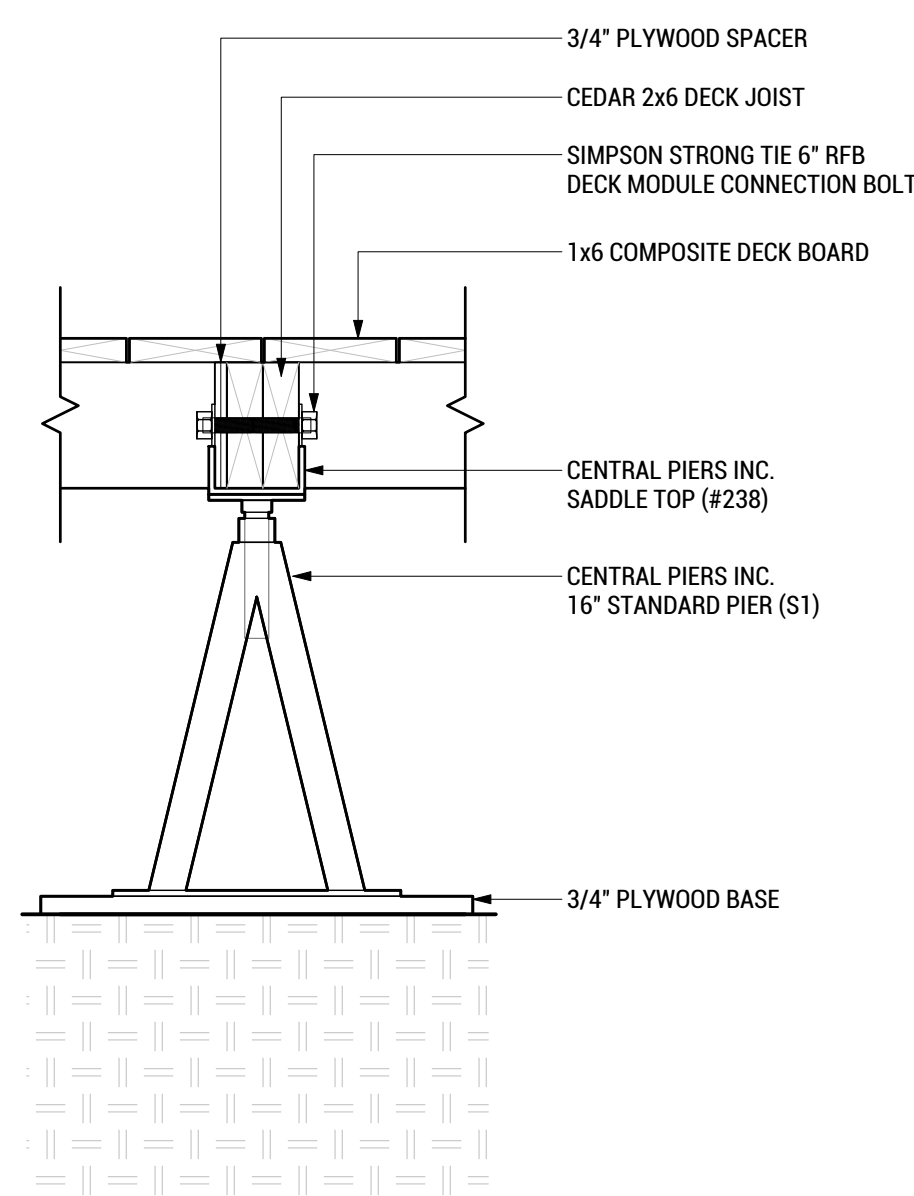
**A3 TYP. DECK MODULE PLAN**  
 SCALE: 1"=1'-0"



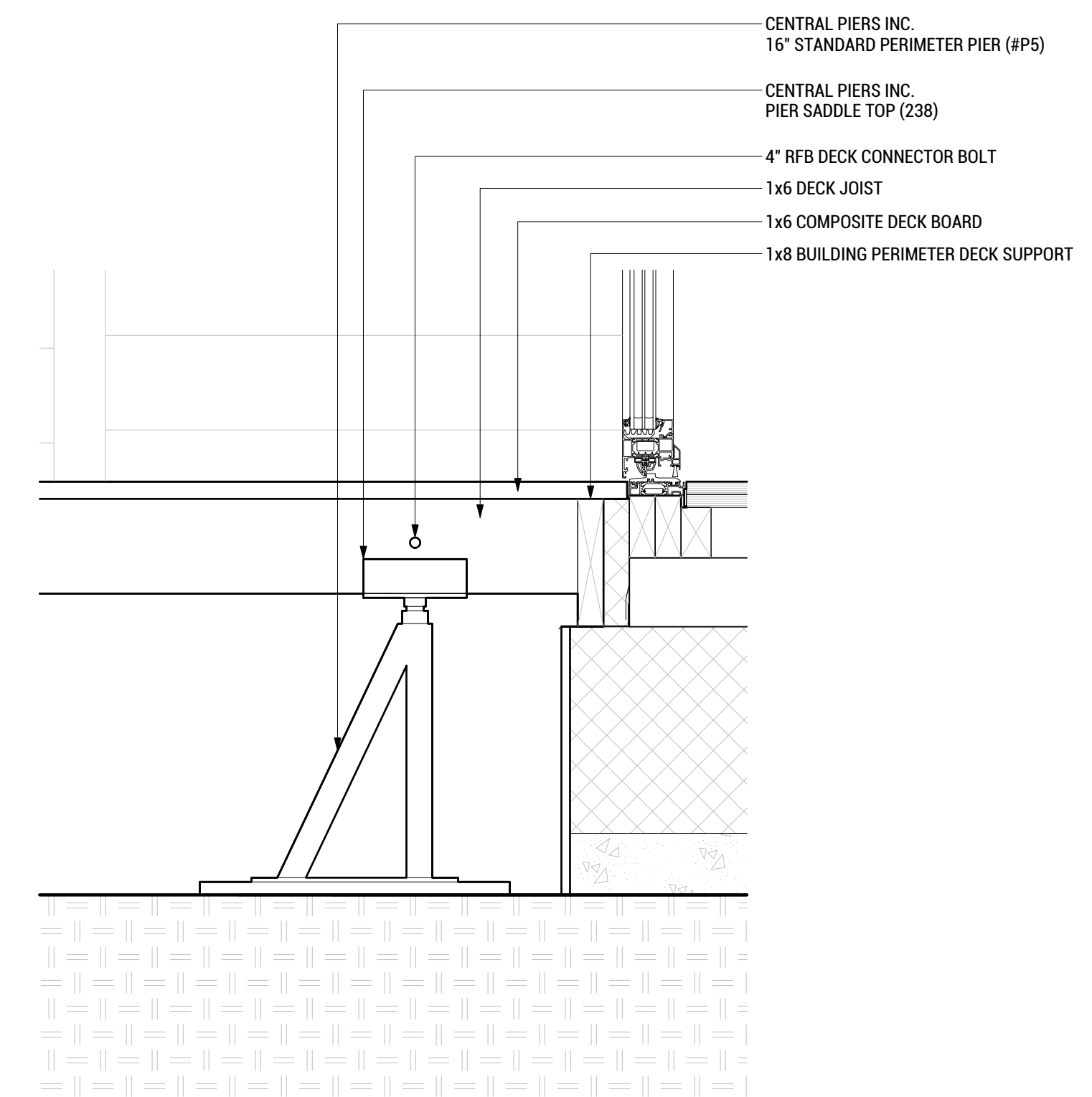
**C5 TYP. DECK MODULE NORTH**  
 SCALE: 1-1/2"=1'-0"



**A8 DECK, BENCH AND POOL**  
 SCALE: 1-1/2"=1'-0"



**A5 TYP. DECK TO DECK**  
 SCALE: 3"=1'-0"



**A3 TYP. DECK TO THRESHOLD**  
 SCALE: 3"=1'-0"

8/16/2017 9:07

8 7 6 5 4 3 2 1





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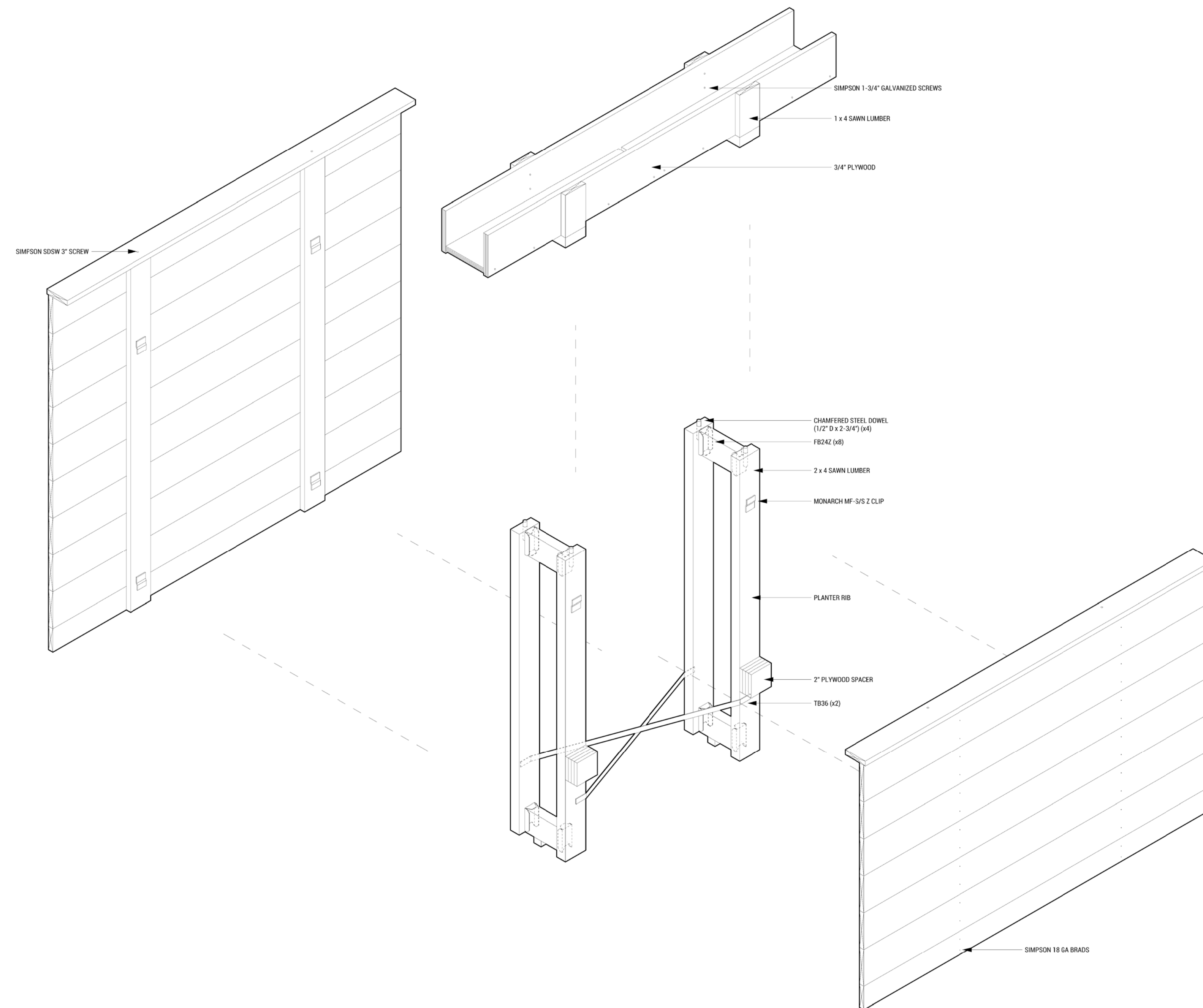
LOT NUMBER: LOT #107

SHEET TITLE:

**PLANTER DIAGRAM**

DRAWN BY: SA CHECKED BY: TG

**L-701**



**PLANTER MODULE 14 EXPLODED ISOMETRIC**  
 SCALE: N/A

7/25/2017 11:25

A B C D

8 7 6 5 4 3 2 1

SHEET NOTES

1. FLOWABLE FILL TO BE REMOVED AFTER COMPETITION AND TO BE USED AS PAVERS AT FINAL SITE



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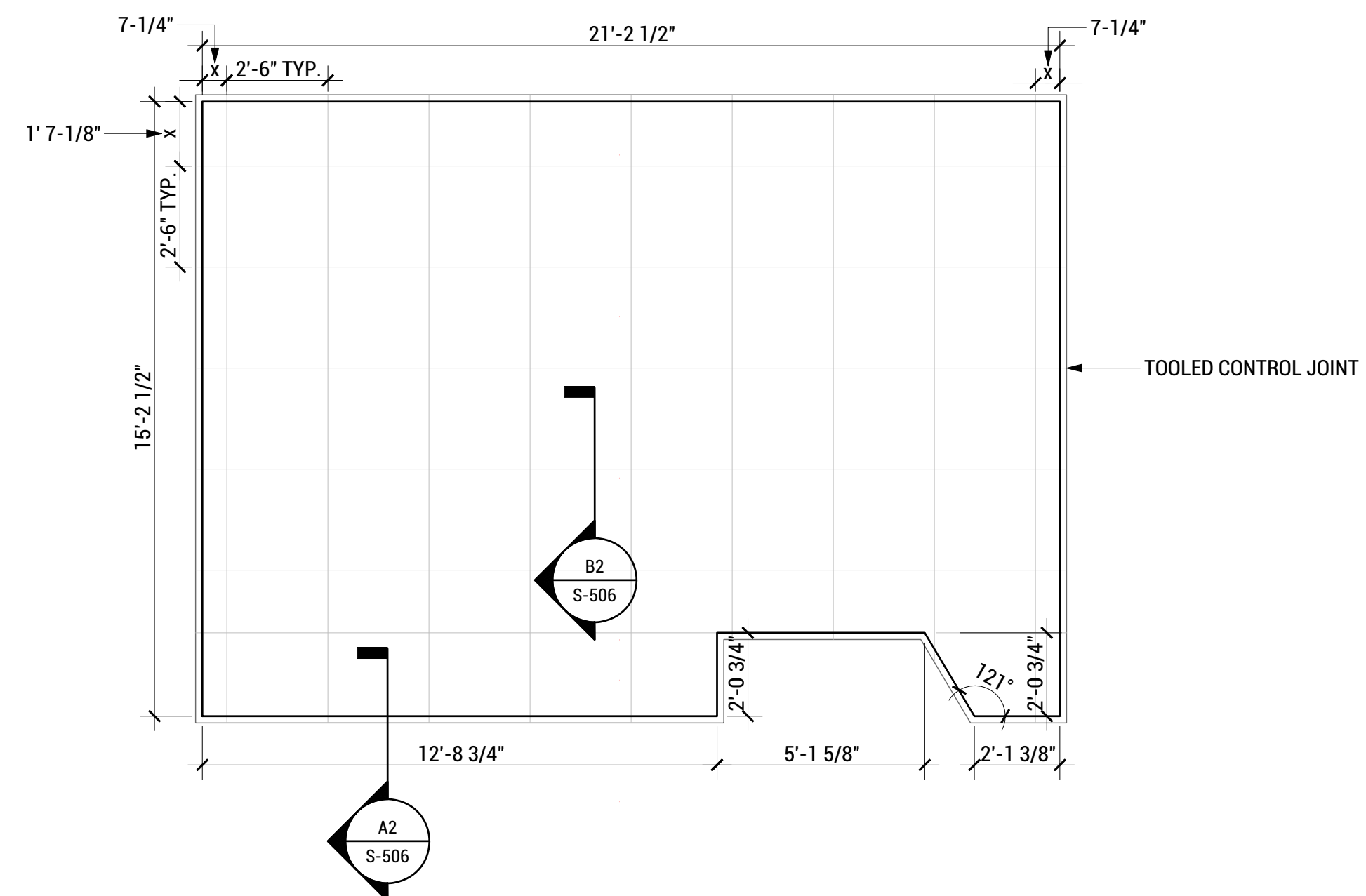
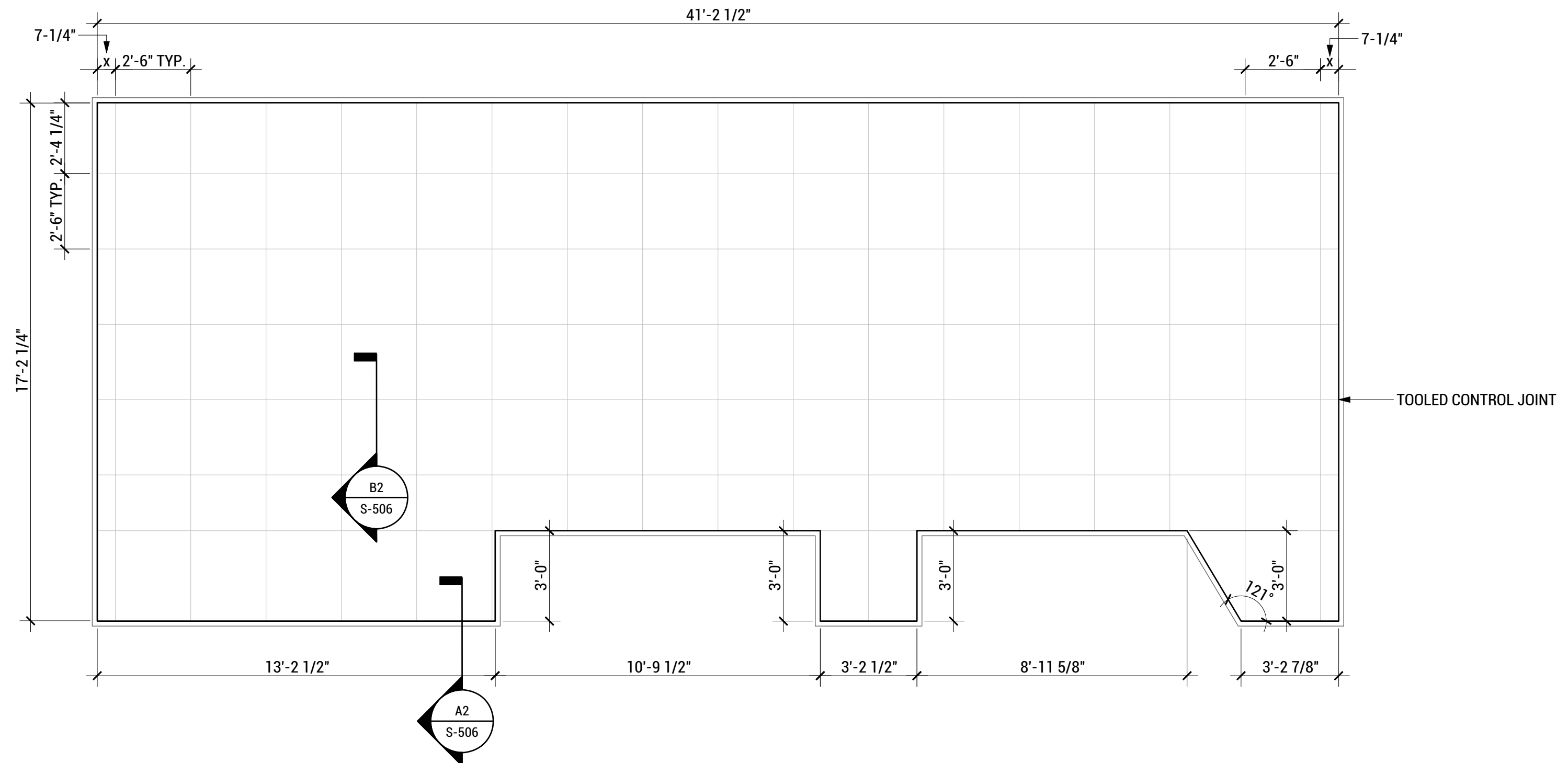
LOT NUMBER: LOT #107

SHEET TITLE:

**FLOWABLE FILL  
 INSTALLATION  
 AND REMOVAL**

DRAWN BY: BK CHECKED BY: DG

**S-101**



**FLOWABLE FILL INSTALLATION AND REMOVAL**

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



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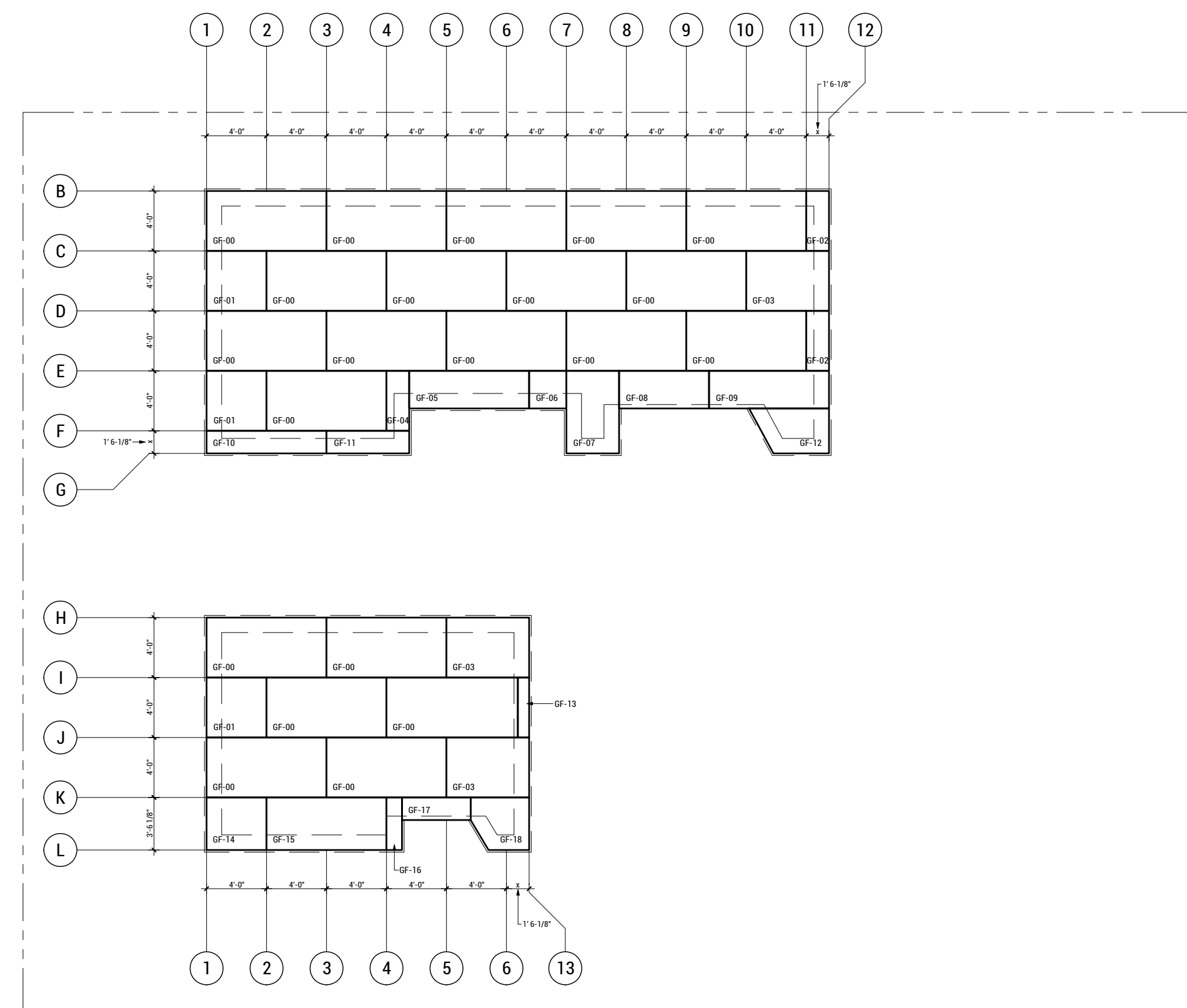
LOT NUMBER: LOT #107

SHEET TITLE:

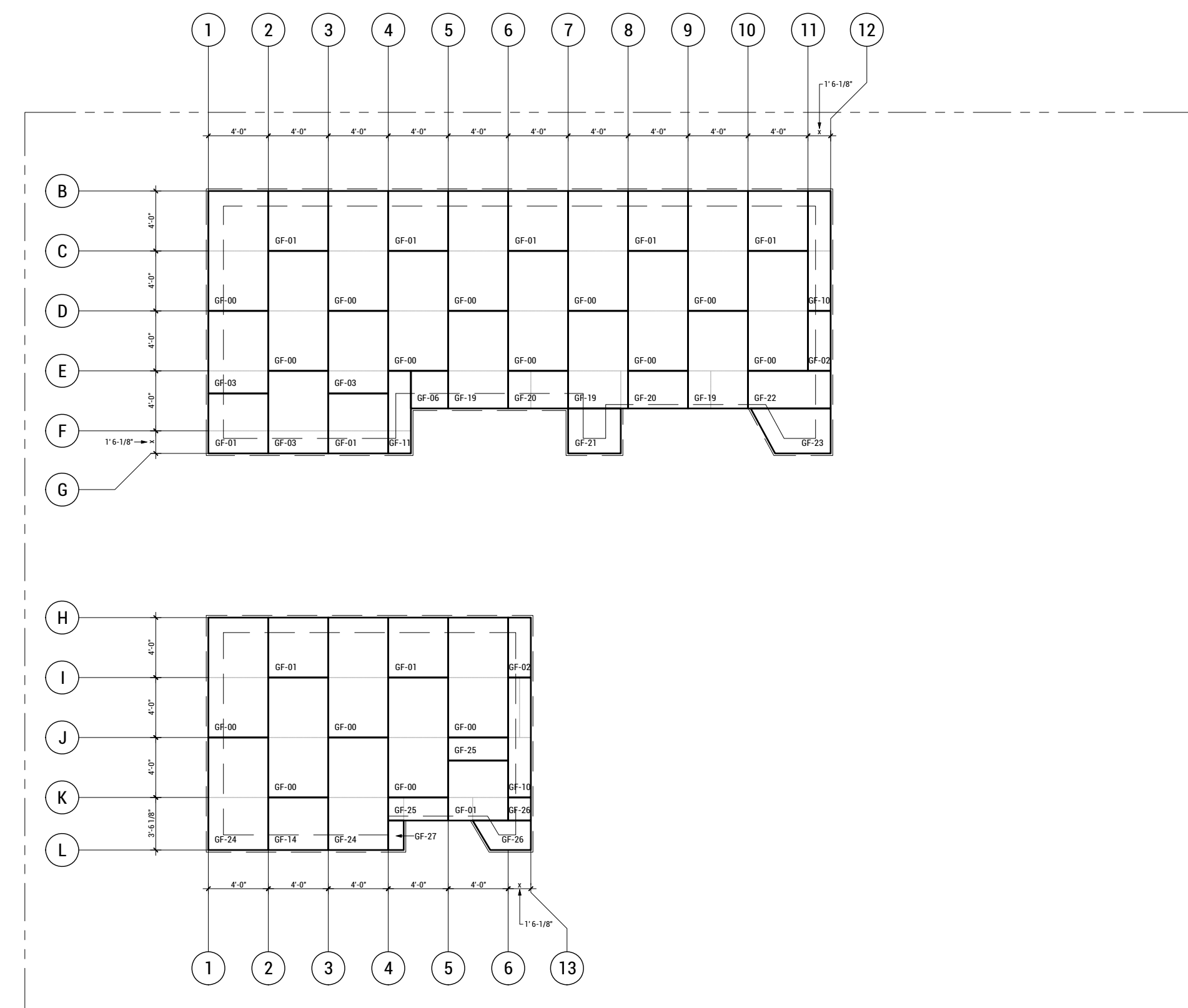
GEOFOAM FOUNDATION PLAN

DRAWN BY: SA CHECKED BY: DG

S-102



**A8** GEOFOAM FOUNDATION 01  
 SCALE: 1/8"=1'-0"



**A4** GEOFOAM FOUNDATION 02  
 SCALE: 1/8"=1'-0"





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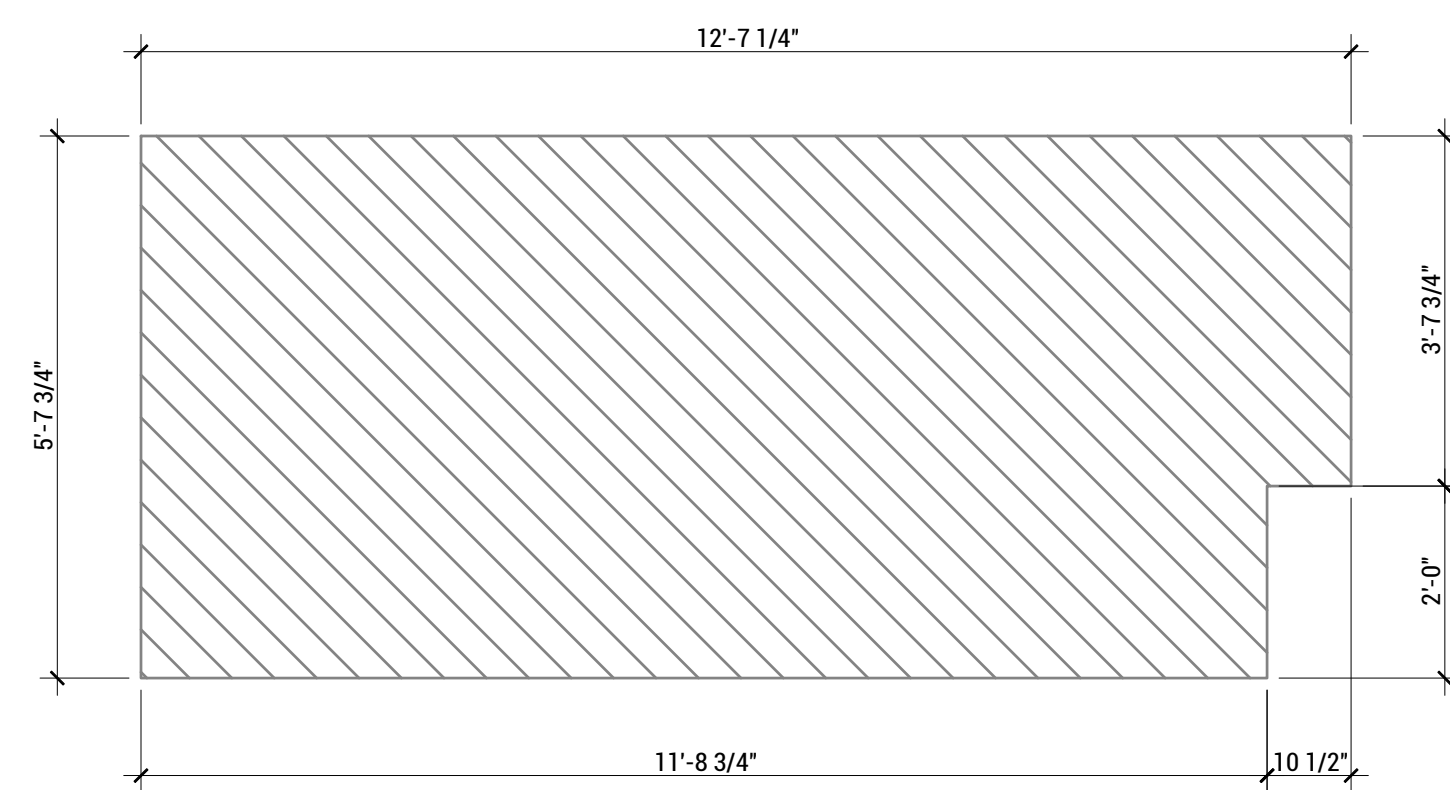
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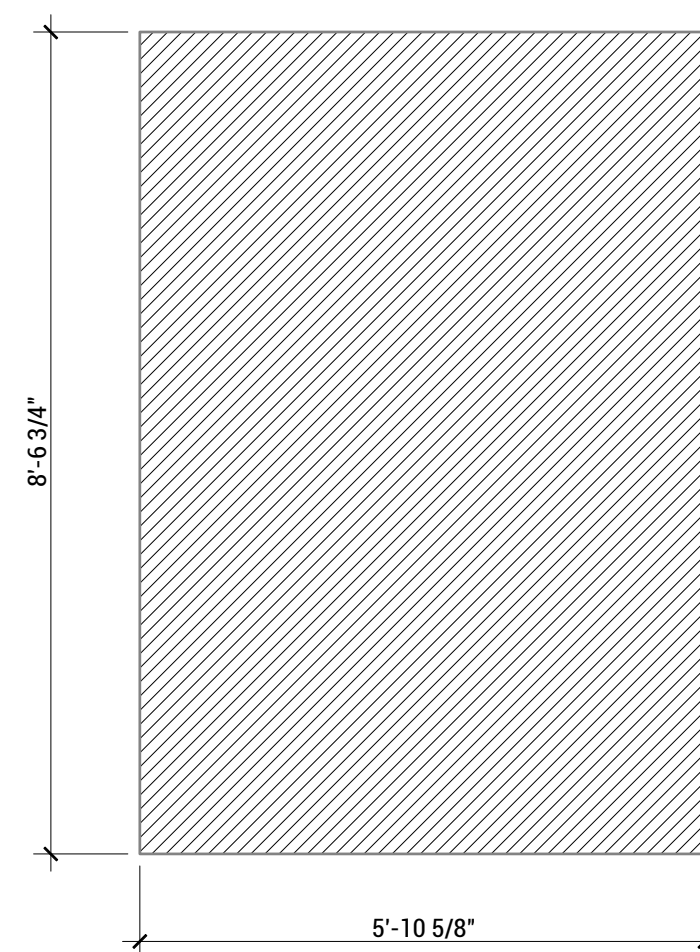
STRUCTURAL FLOOR PLAN

DRAWN BY: SA CHECKED BY: DG

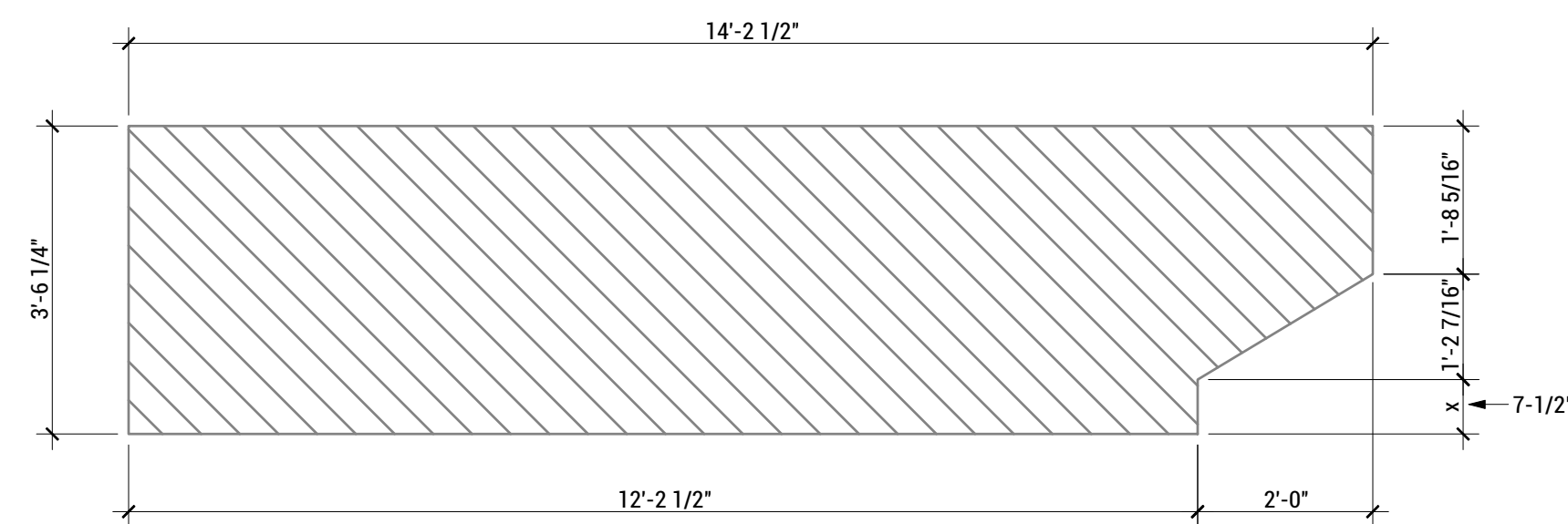
S-103



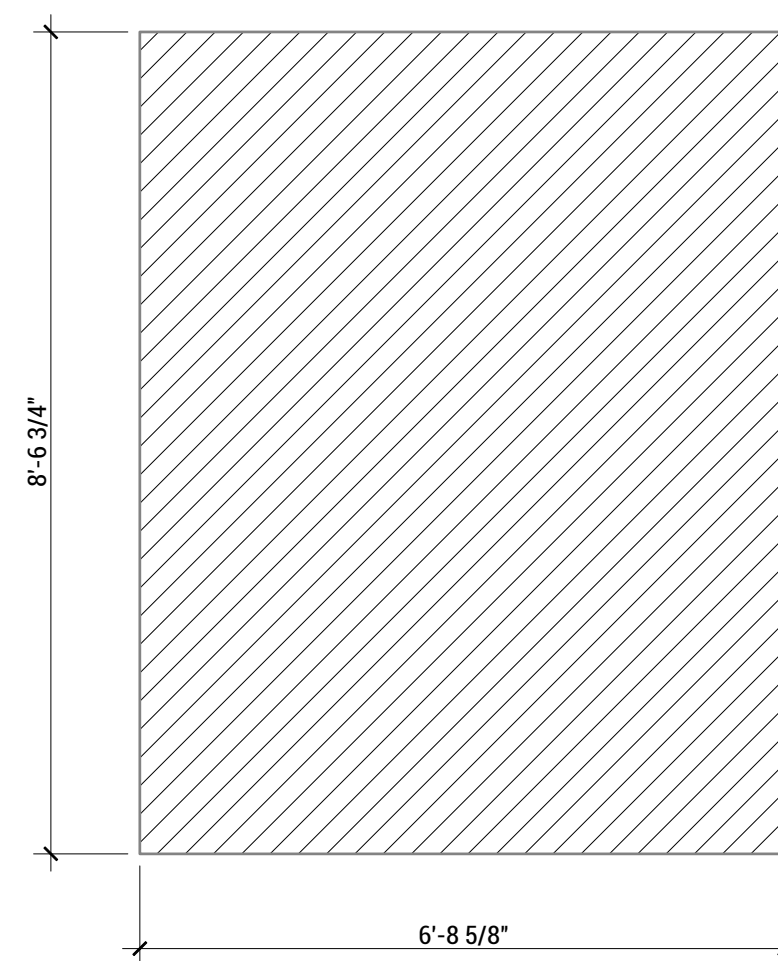
A6 FLOOR PANEL 03 (TH)  
 SCALE: 1/2=1'-0"



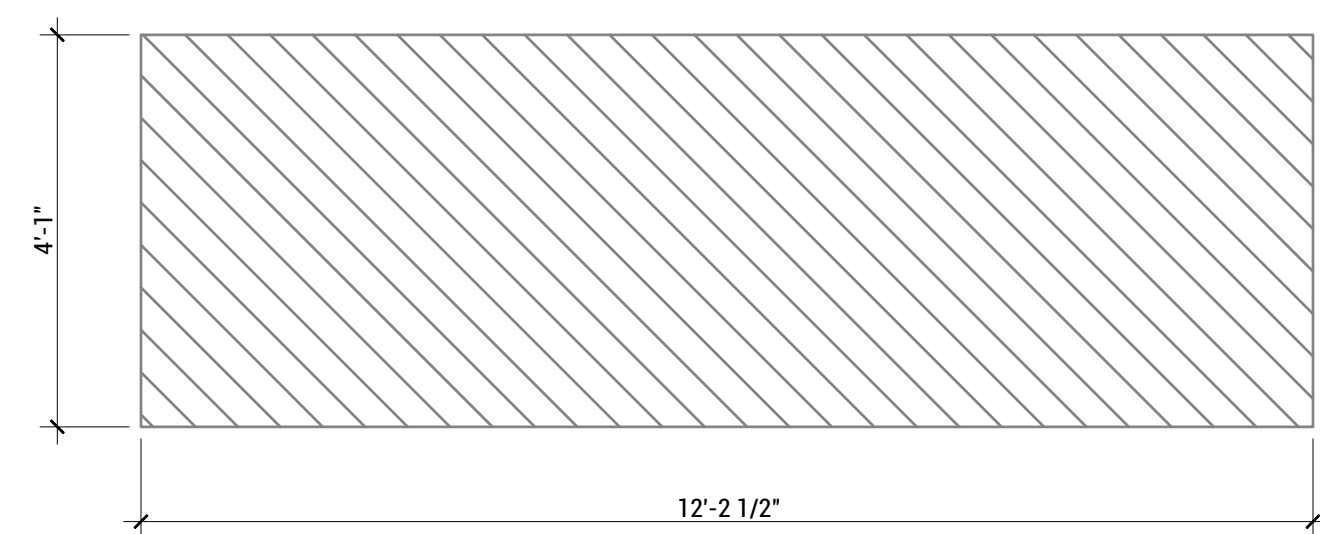
C8 FLOOR PANEL 02 (BM)  
 SCALE: 1/2=1'-0"



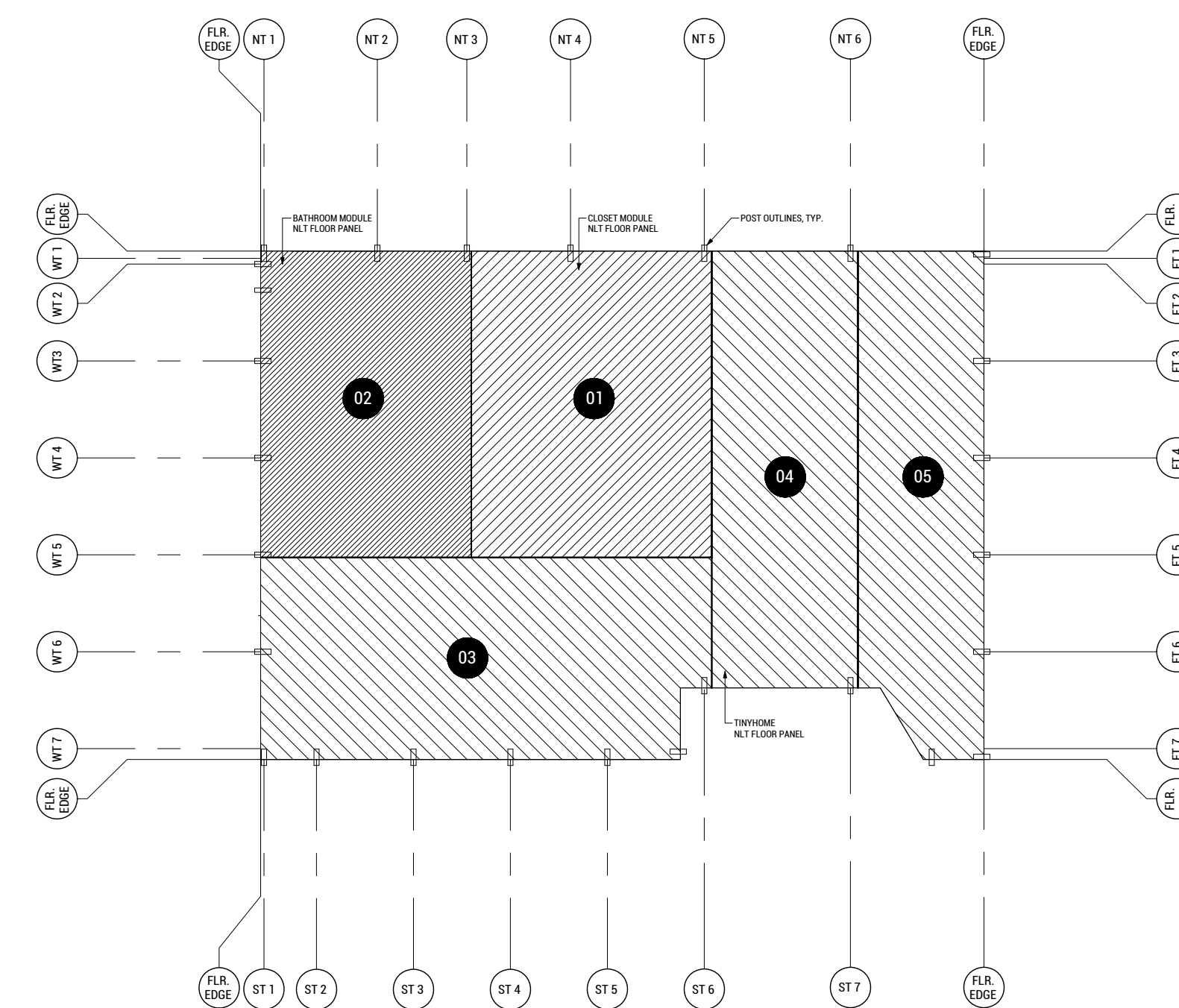
B6 FLOOR PANEL 05 (TH)  
 SCALE: 1/2=1'-0"



D8 FLOOR PANEL 01 (CM)  
 SCALE: 1/2=1'-0"



D6 FLOOR PANEL 04 (TH)  
 SCALE: 1/2=1'-0"



A3 MODULE FLOOR PLAN  
 SCALE: 1/4=1'-0"



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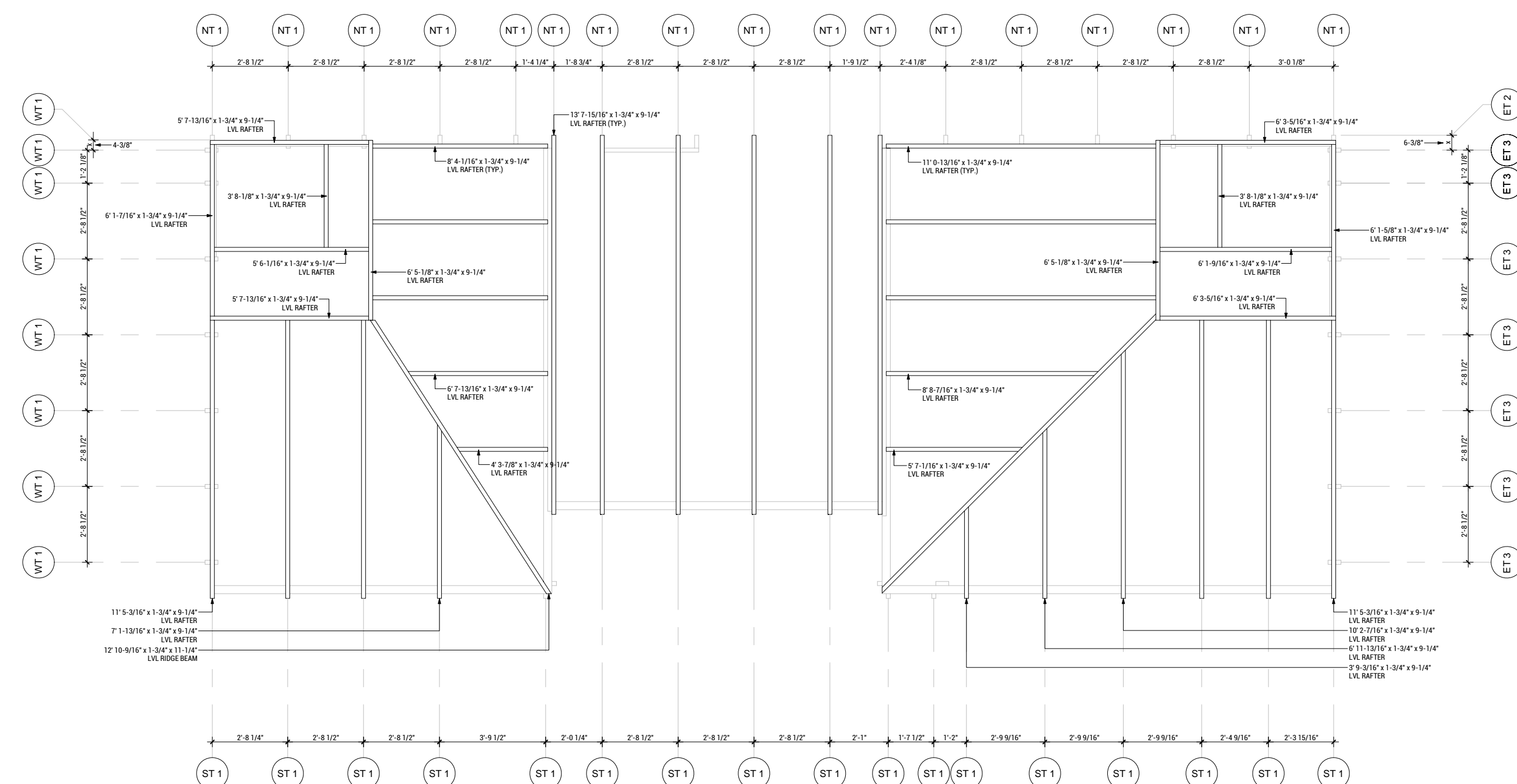
LOT NUMBER: LOT #107

SHEET TITLE:

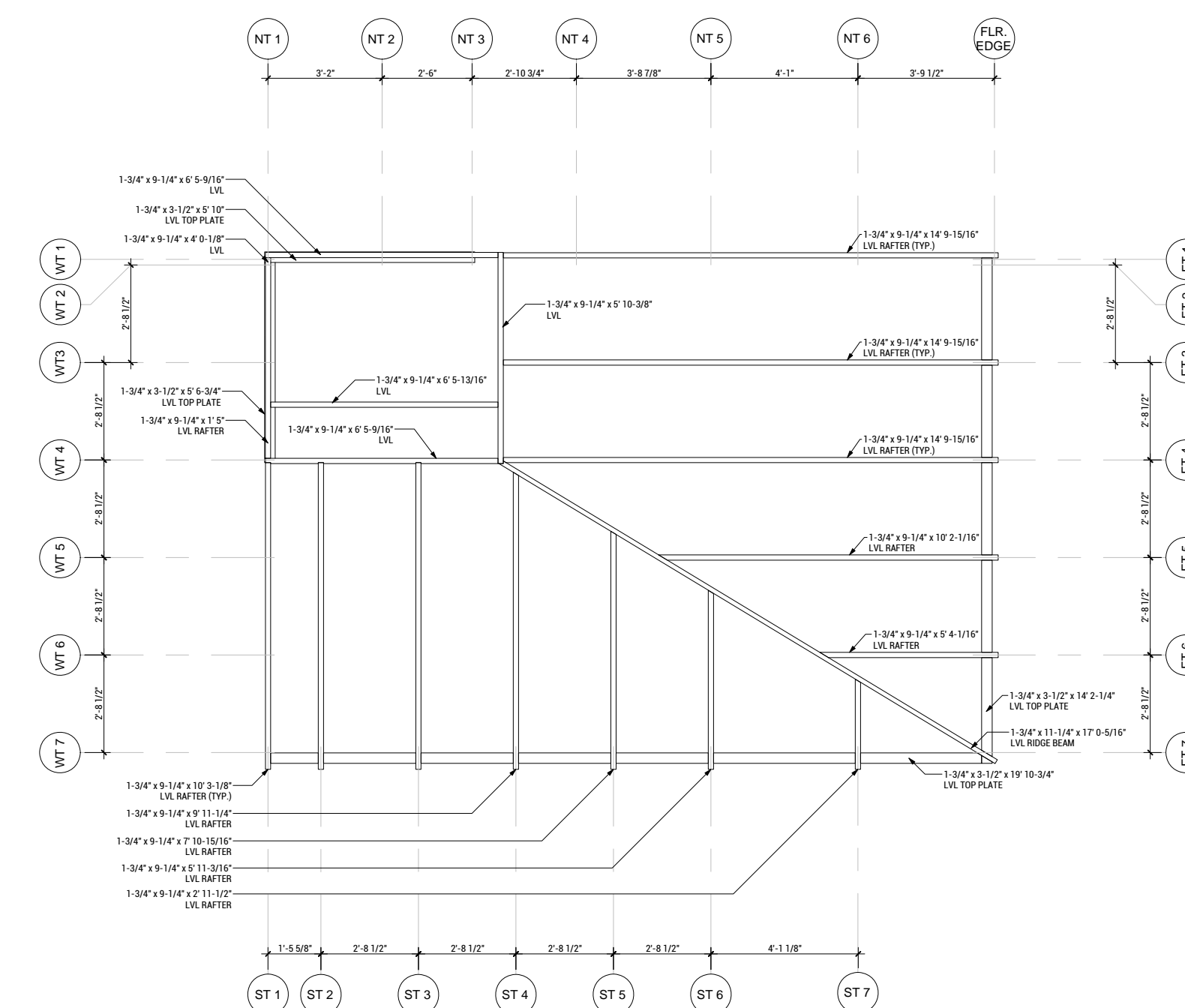
## ROOF STRUCTURE PLAN

DRAWN BY: SA CHECKED BY: DG

# S-104



**A8 CLUBHOUSE ROOF STRUCTURE PLAN**  
 SCALE: 1/4"=1'-0"



**A4 TINY HOME ROOF STRUCTURE PLAN**  
 SCALE: 1/4"=1'-0"

8/7/2017 8:15



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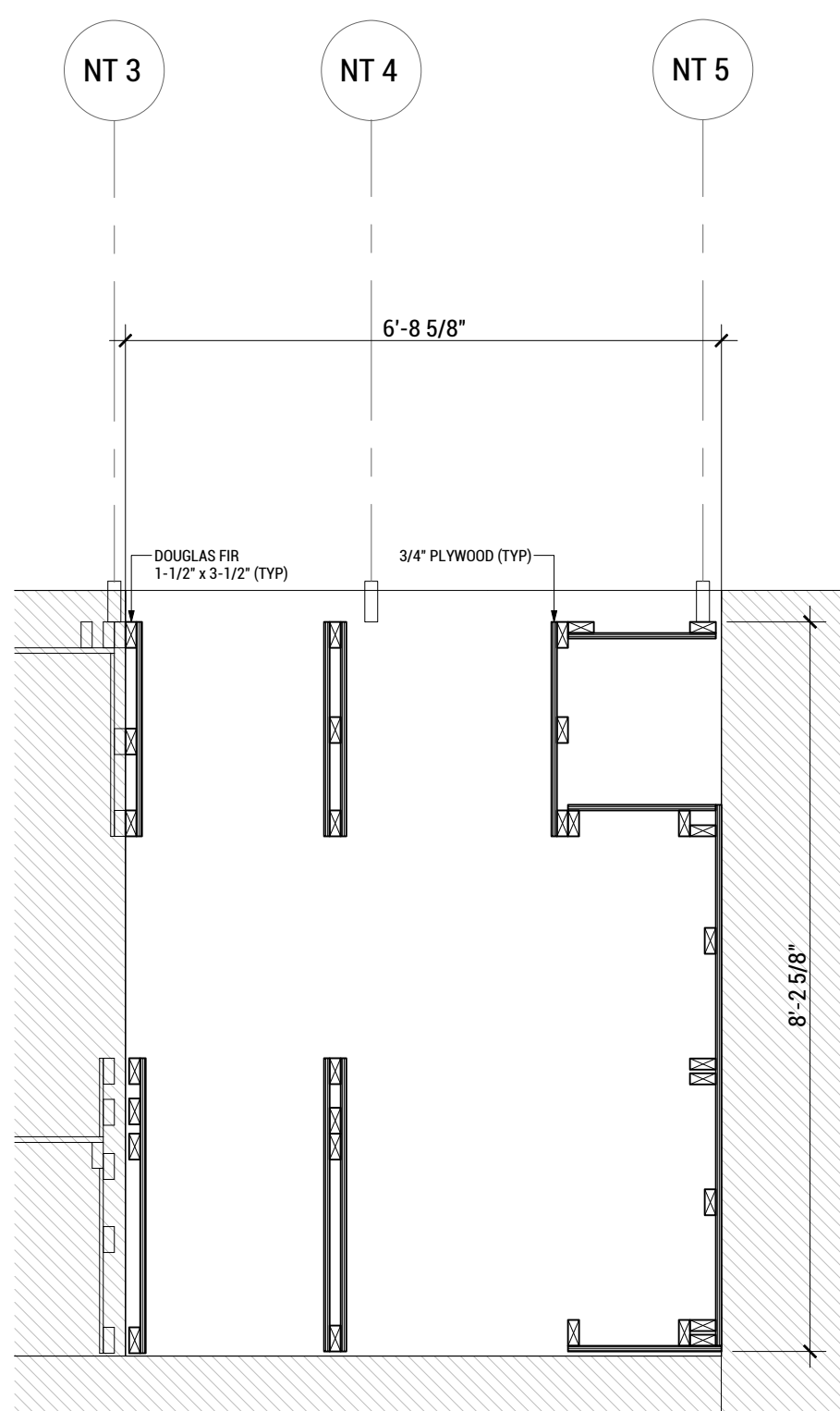
LOT NUMBER: LOT #107

SHEET TITLE:

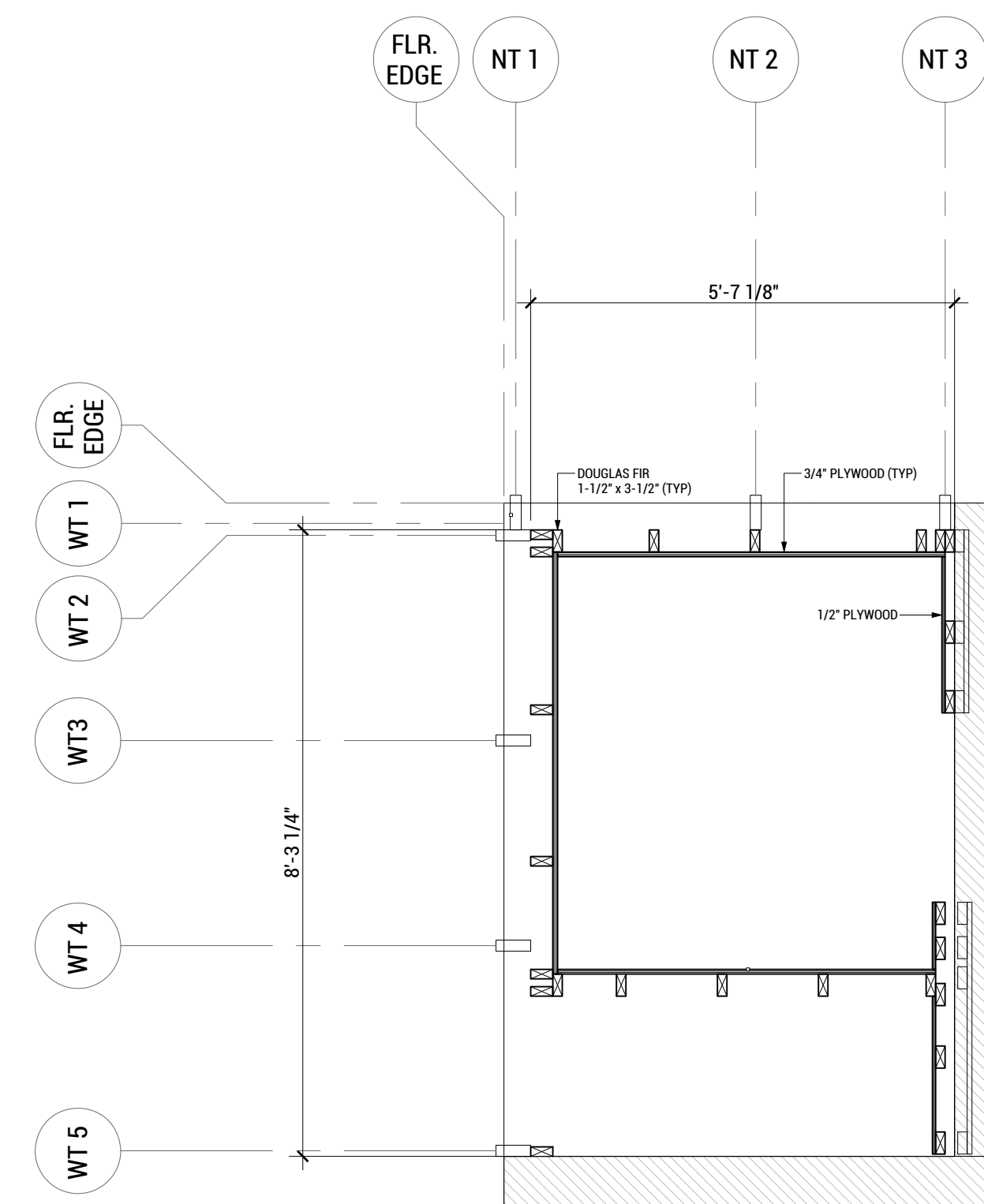
TINYHOME MODULES  
 FRAMING PLAN

DRAWN BY: SA CHECKED BY: DG

S-110



A5 CLOSET MODULE FRAMING PLAN  
 SCALE: 1/2"=1'-0"



A3 BATHROOM MODULE FRAMING PLAN  
 SCALE: 1/2"=1'-0"





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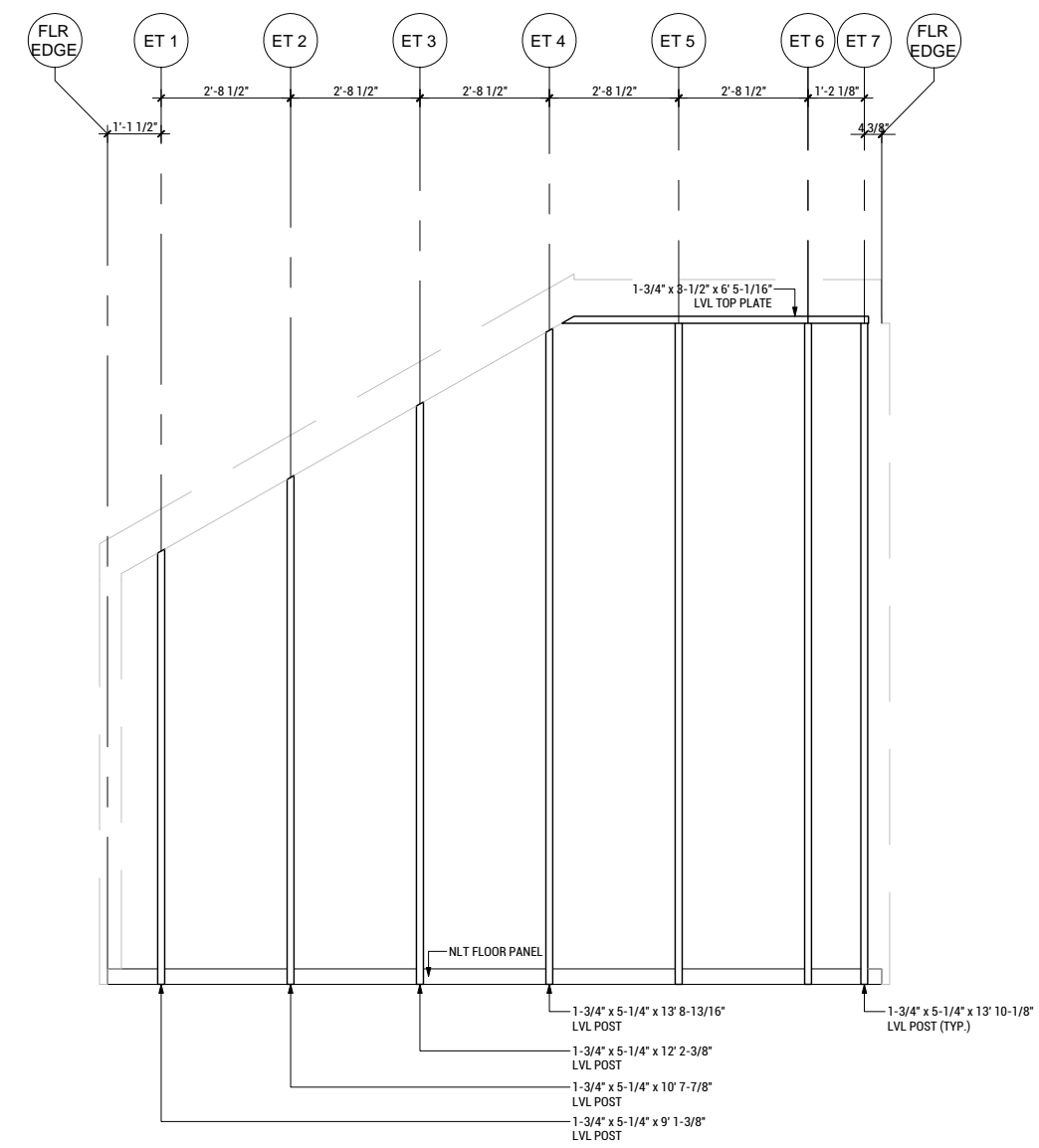
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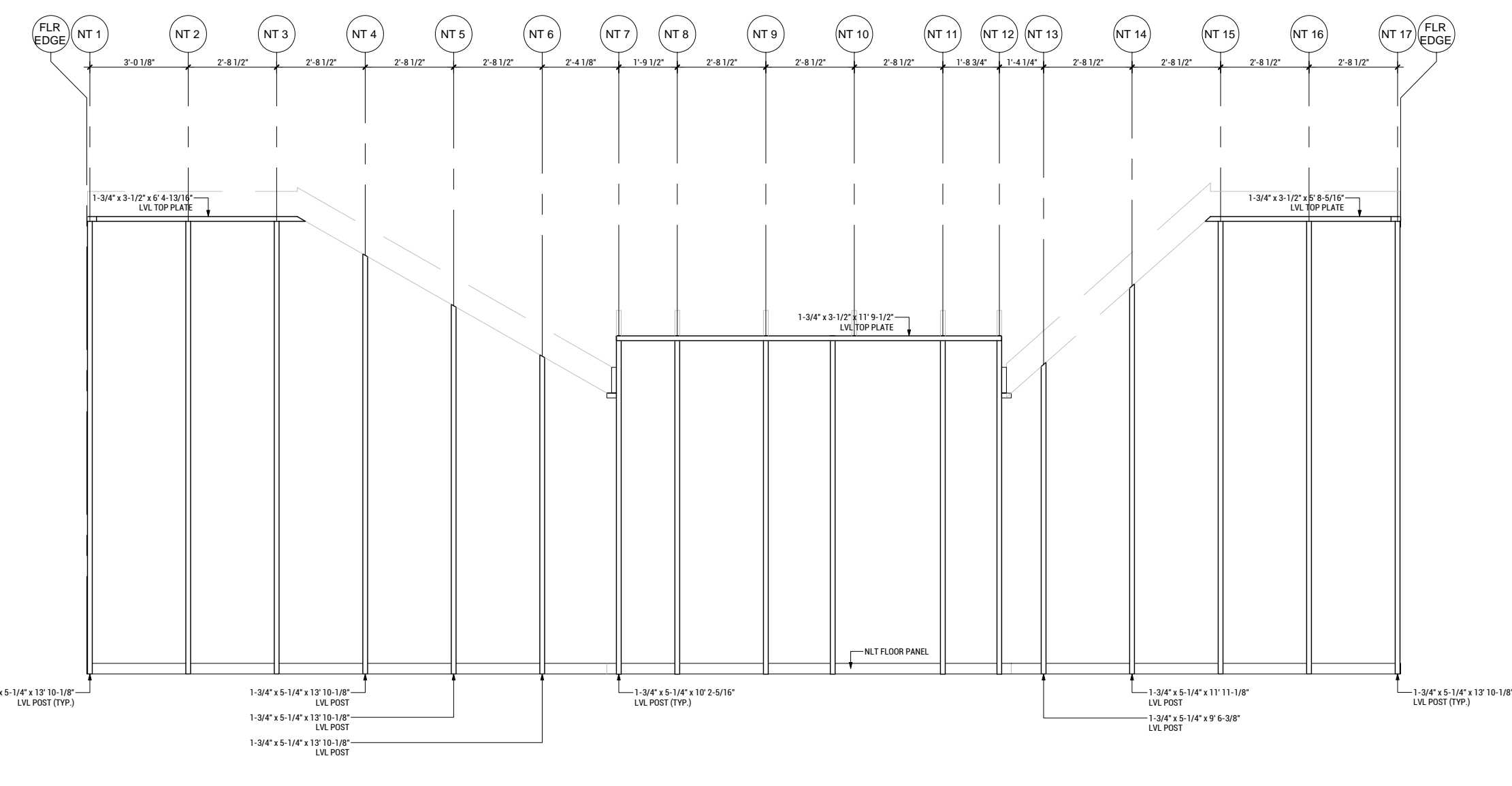
CLUBHOUSE STRUCTURAL ELEVATIONS

DRAWN BY: SA CHECKED BY: DG

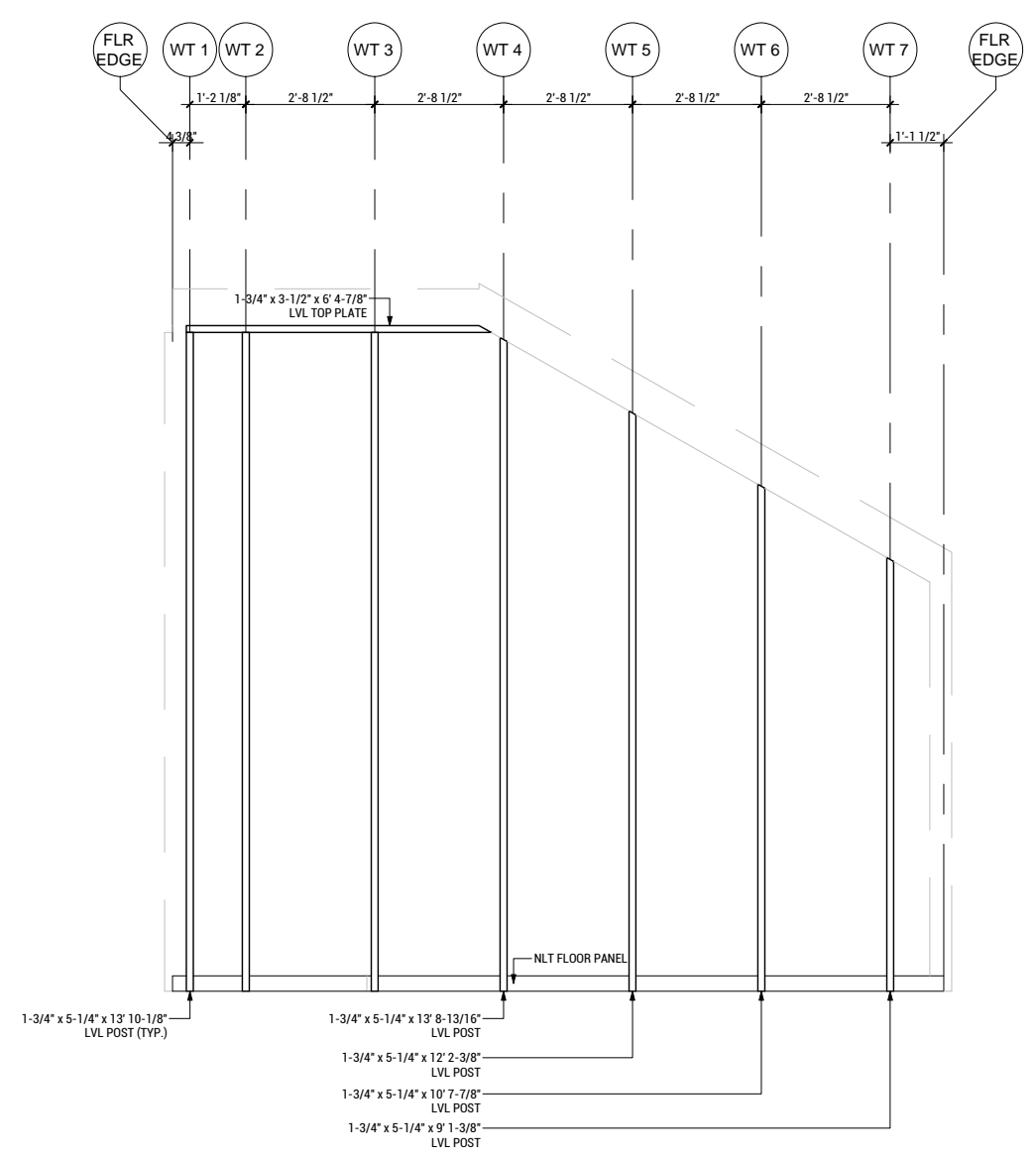
S-201



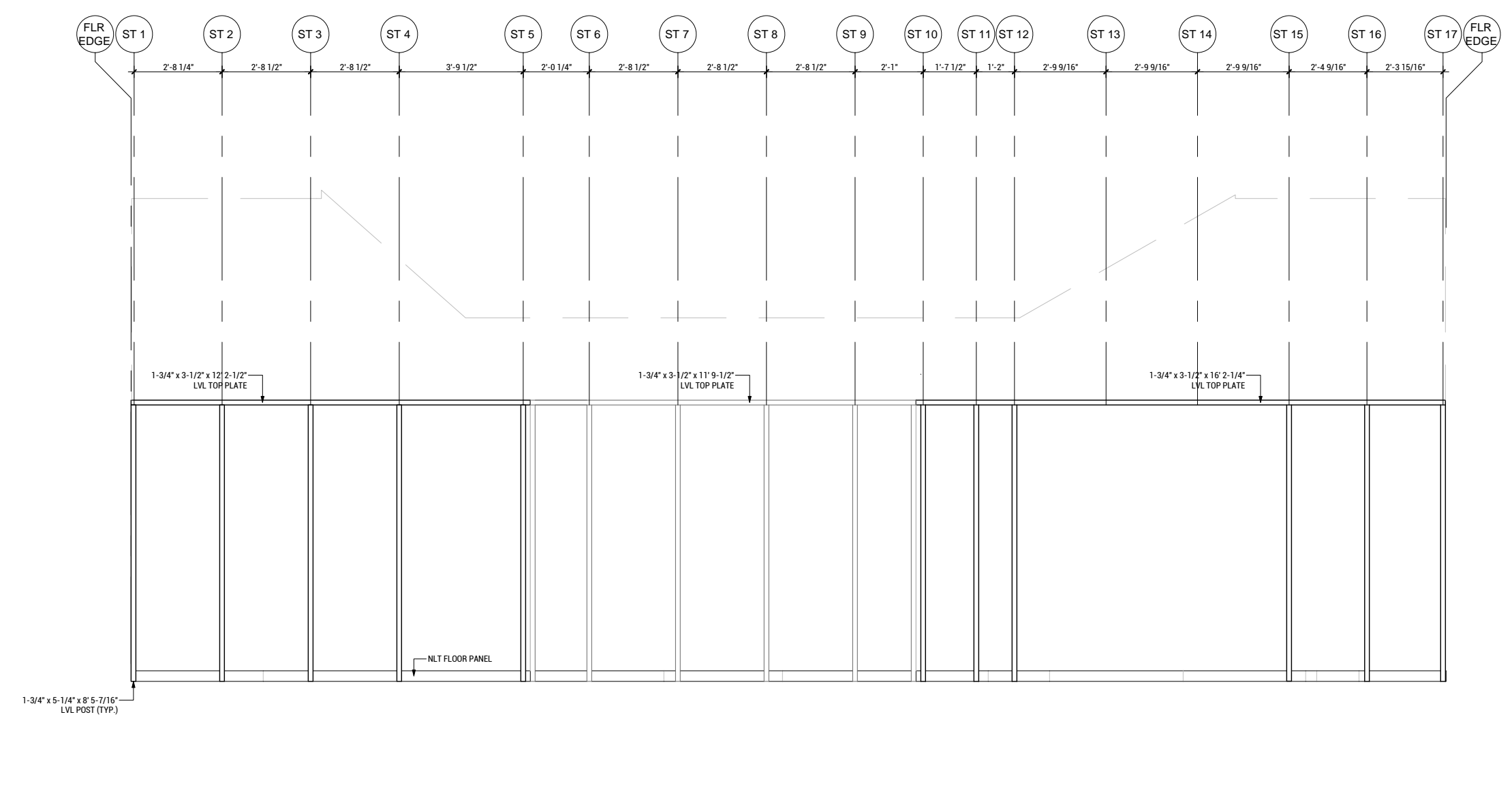
C7 CLUBHOUSE EAST STRUCTURAL ELEVATION  
 SCALE: 1/4"=1'-0"



C4 CLUBHOUSE NORTH STRUCTURAL ELEVATION  
 SCALE: 1/4"=1'-0"



A7 CLUBHOUSE WEST STRUCTURAL ELEVATION  
 SCALE: 1/4"=1'-0"



A4 CLUBHOUSE SOUTH STRUCTURAL ELEVATION  
 SCALE: 1/4"=1'-0"



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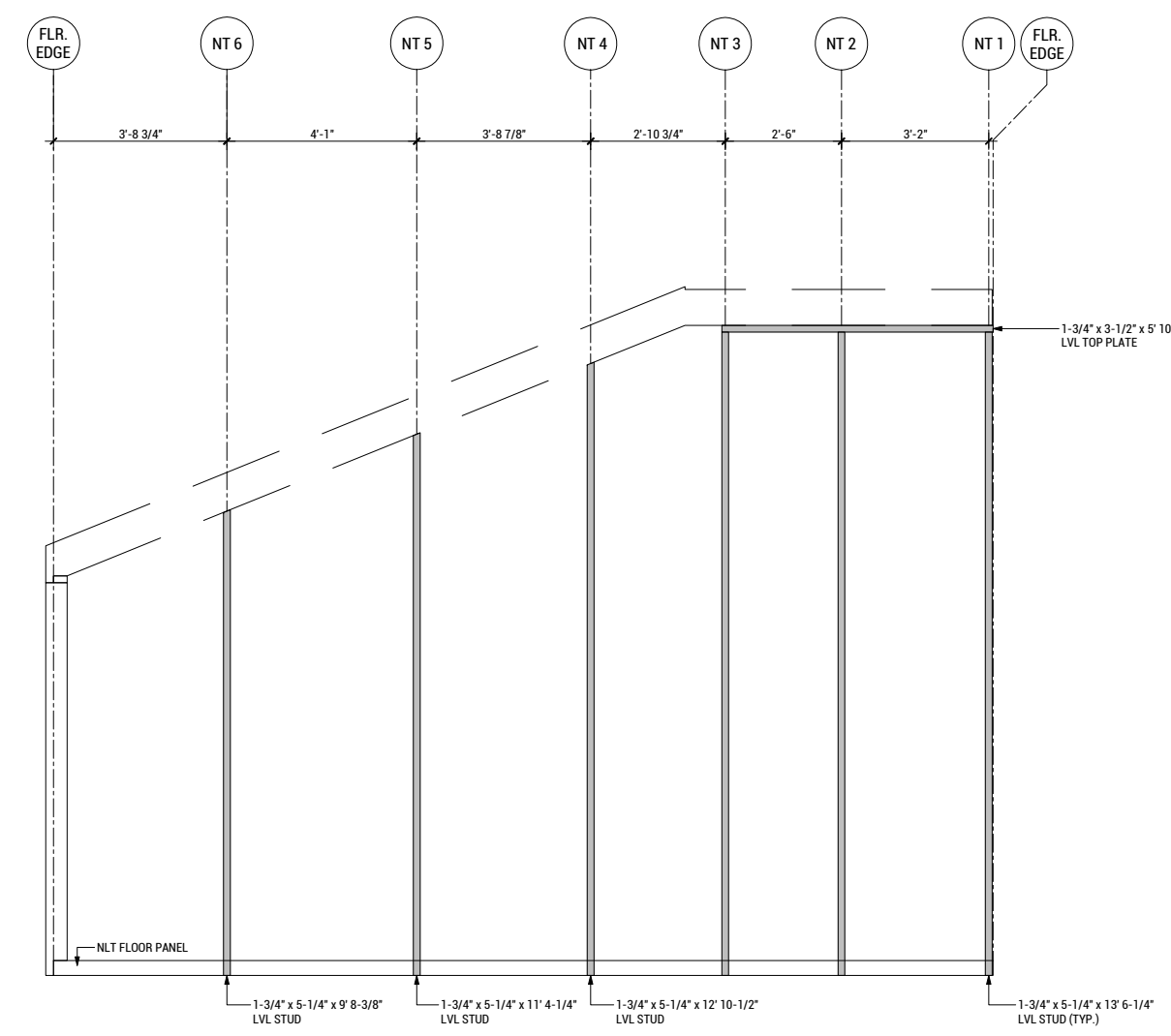
LOT NUMBER: LOT #107

SHEET TITLE:

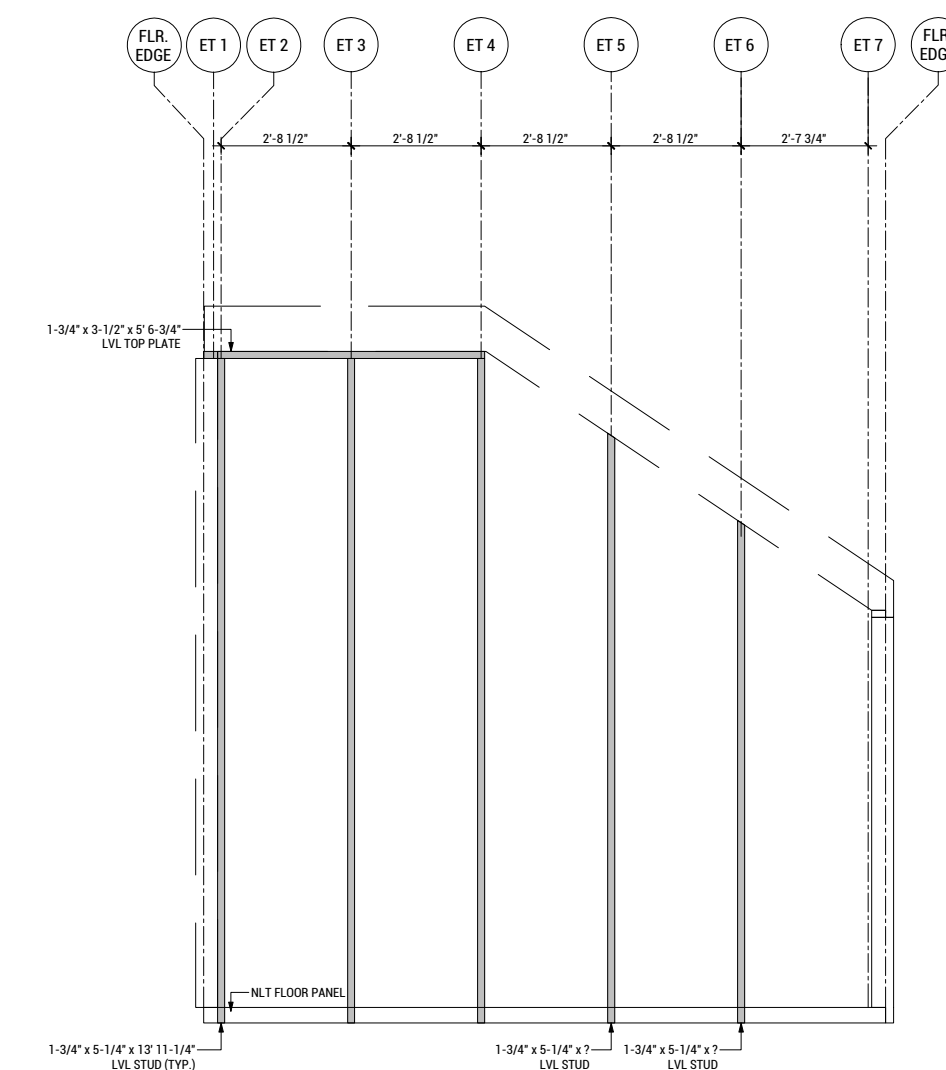
TINYHOME STRUCTURAL ELEVATIONS

DRAWN BY: SA CHECKED BY: XX

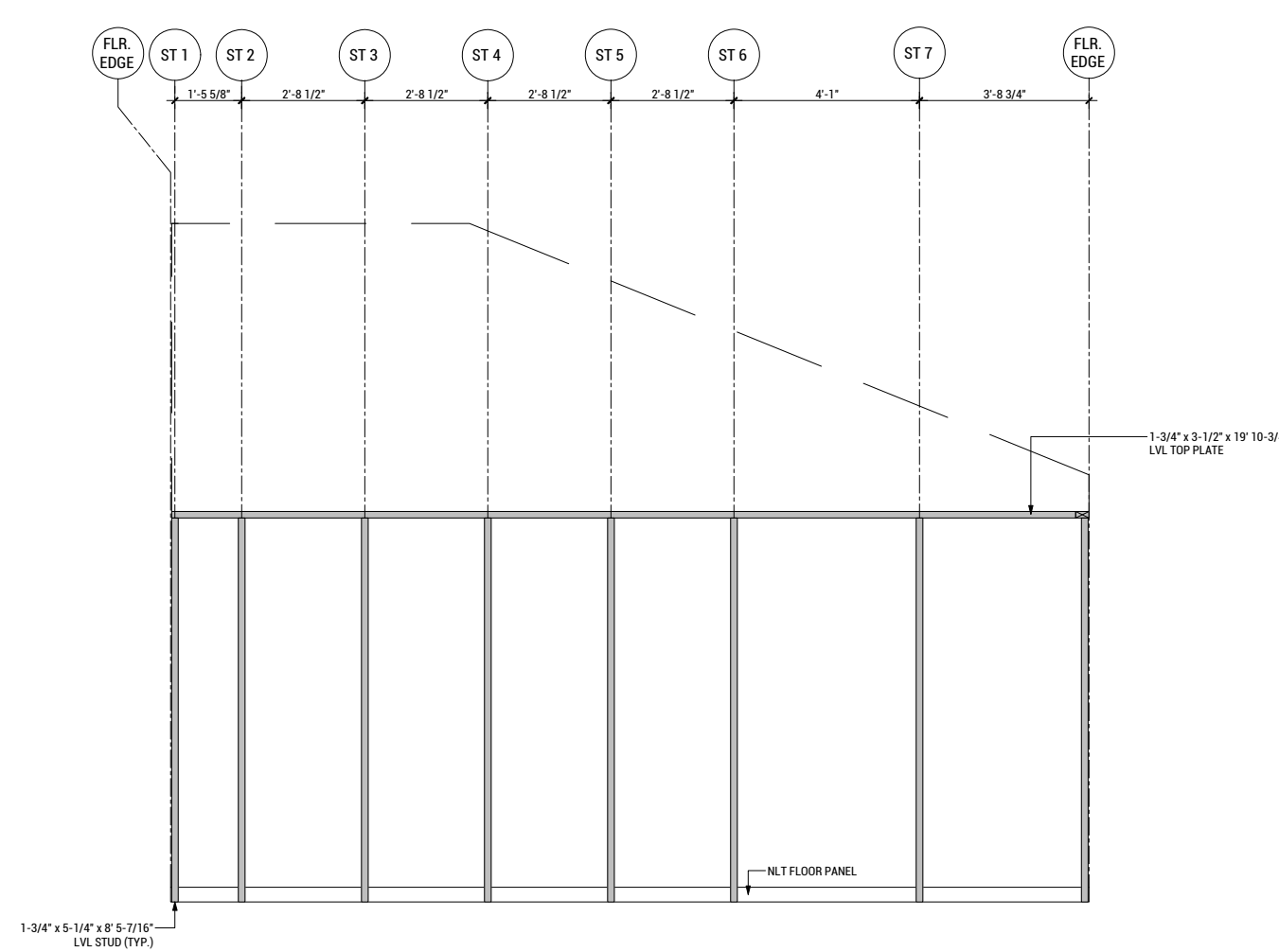
S-202



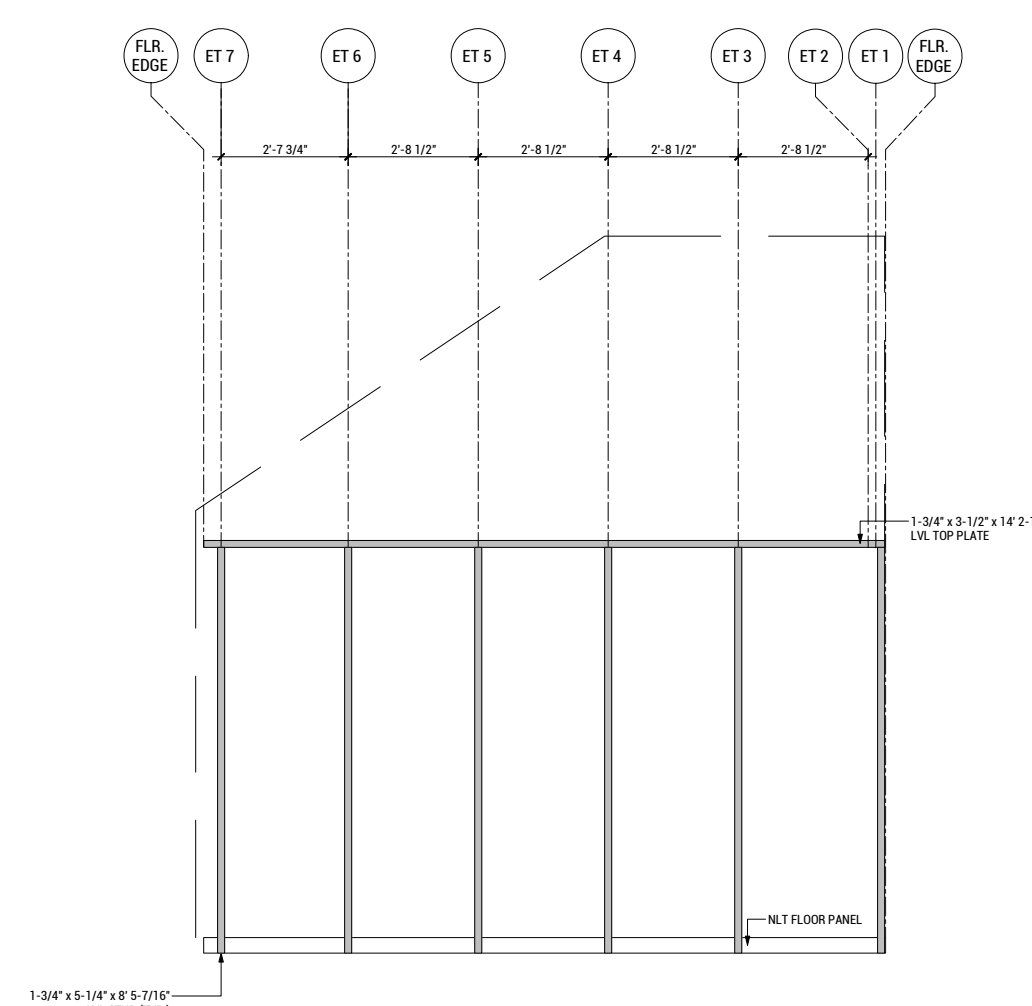
C8 TINYHOME SOUTH WALL FRAME ELEVATION  
 SCALE: 1/4"=1'-0"



C3 TINYHOME SOUTH WALL FRAME ELEVATION  
 SCALE: 1/4"=1'-0"



A8 TINYHOME SOUTH WALL FRAME ELEVATION  
 SCALE: 1/4"=1'-0"



A3 TINYHOME SOUTH WALL FRAME ELEVATION  
 SCALE: 1/4"=1'-0"

8/16/2017 7:55

8 7 6 5 4 3 2 1



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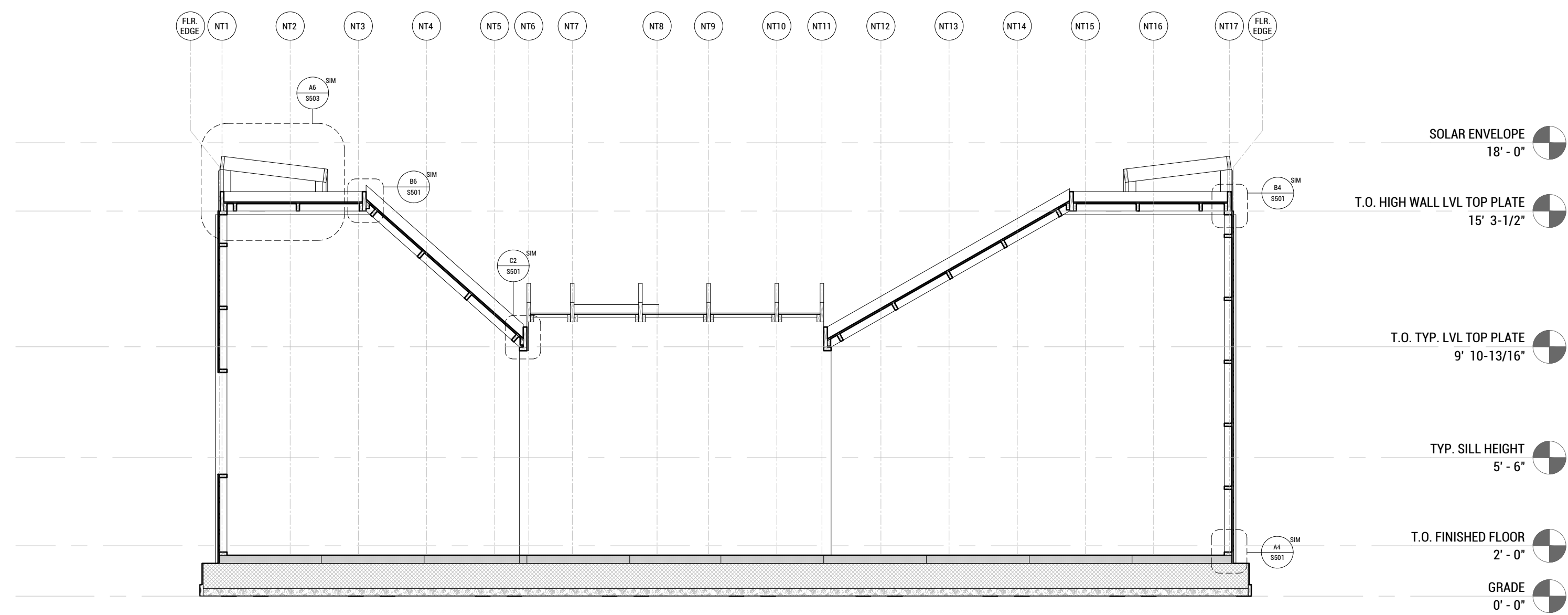
LOT NUMBER: LOT #107

SHEET TITLE:

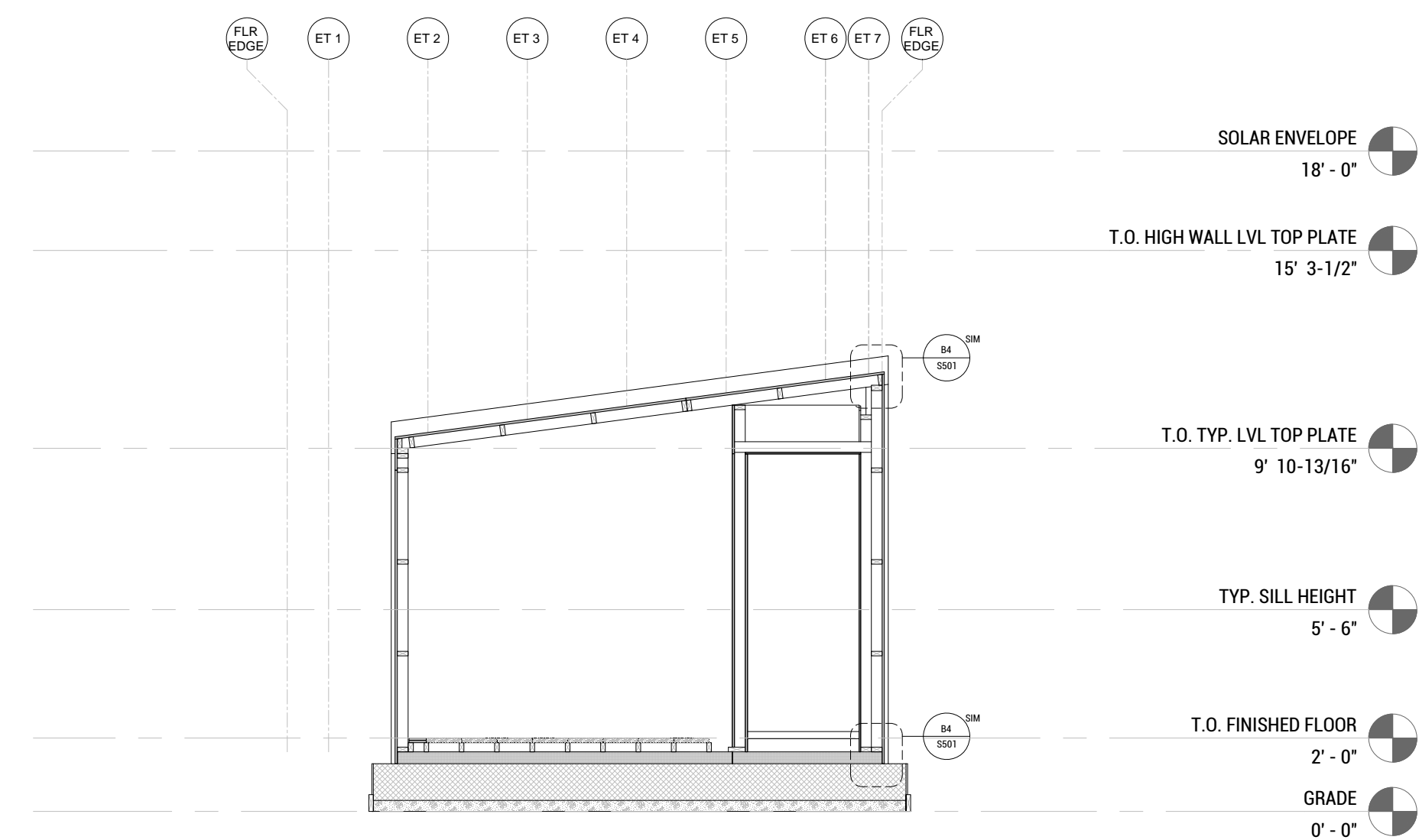
COMMUNITY BUILDING  
 STRUCTURAL SECTION

DRAWN BY: SA CHECKED BY: DG

S-301



A3 STRUCTURAL SECTION A  
 SCALE: 1/4"=1'-0"



A3 STRUCTURAL SECTION B  
 SCALE: 1/4"=1'-0"





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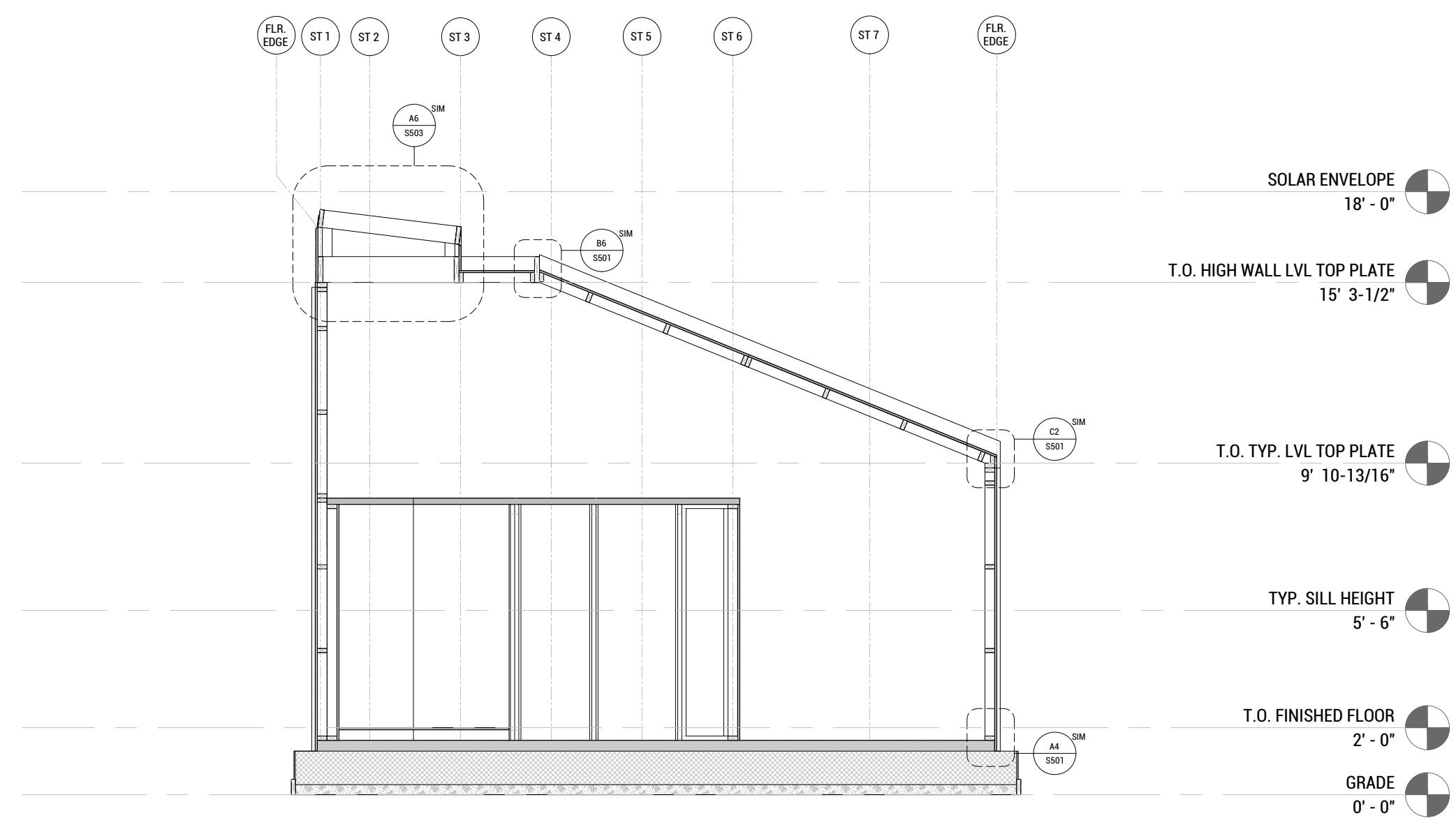
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SHEET TITLE:

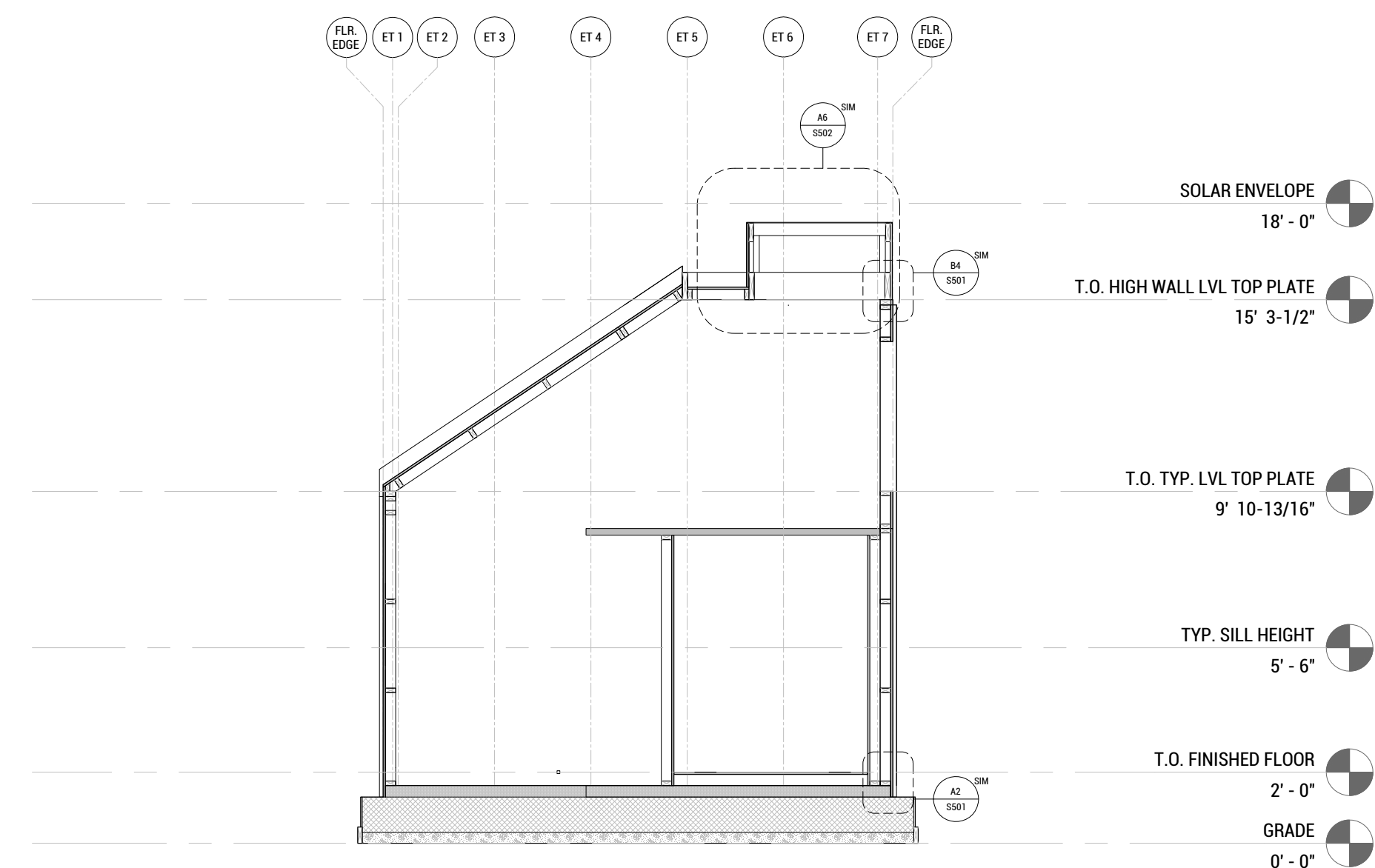
TINYHOME  
 STRUCTURAL SECTION

DRAWN BY: SA CHECKED BY: DG

S-302

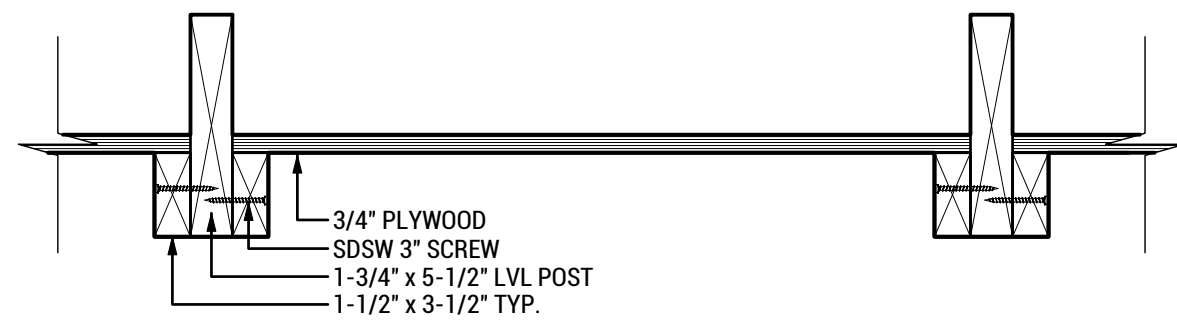


A3 STRUCTURAL SECTION A  
 SCALE: 1/4"=1'-0"

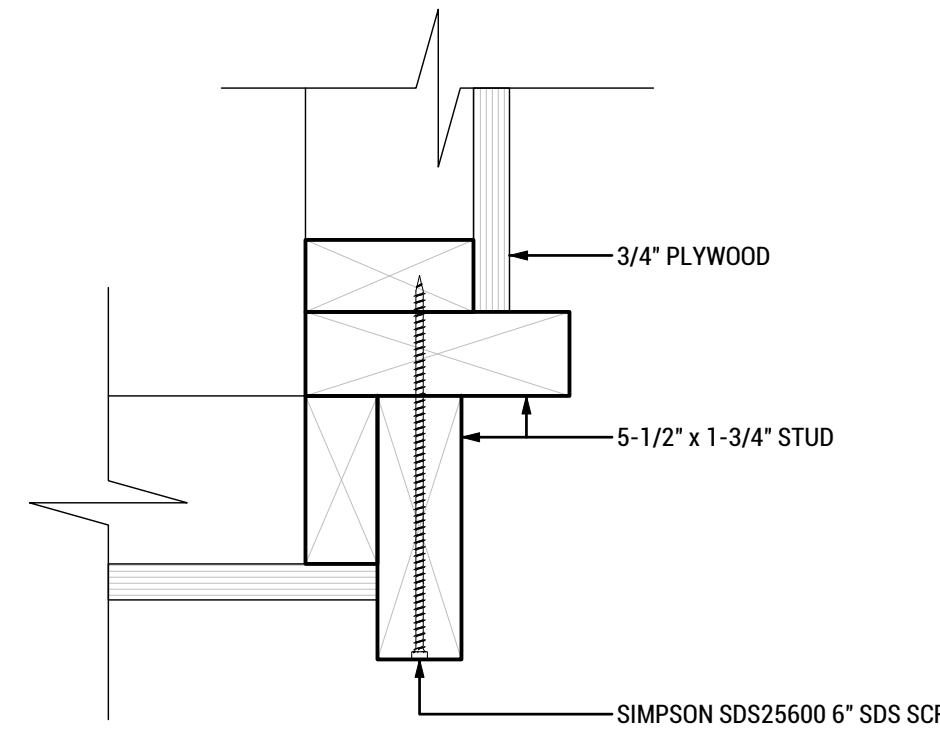


A3 STRUCTURAL SECTION B  
 SCALE: 1/4"=1'-0"

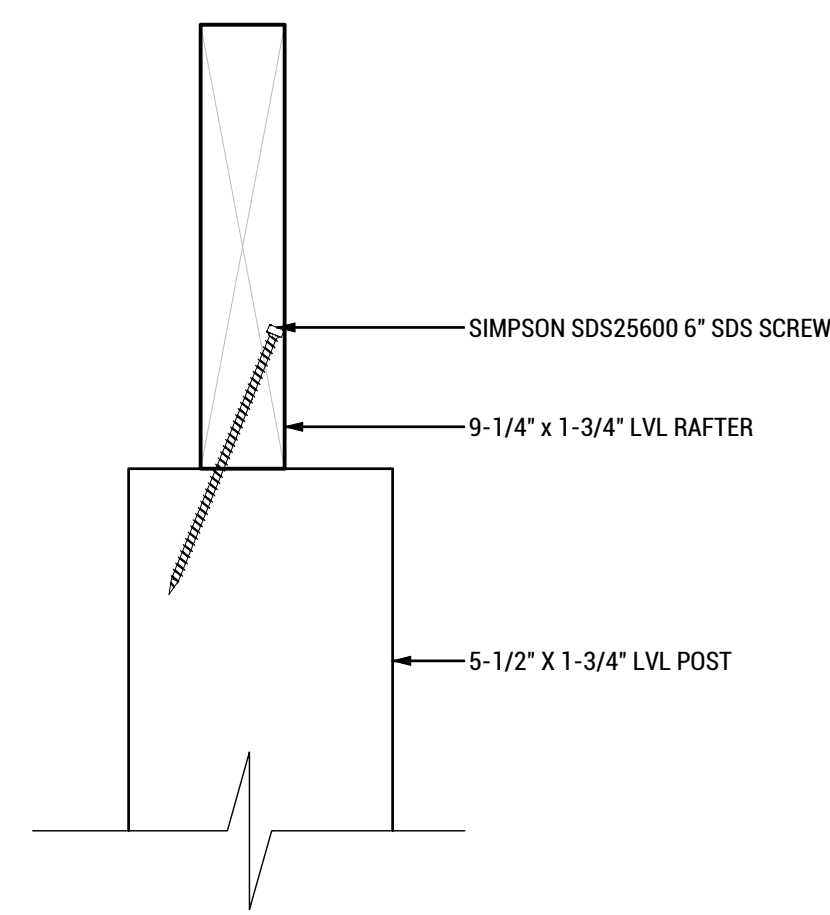
8/6/2017 5:55



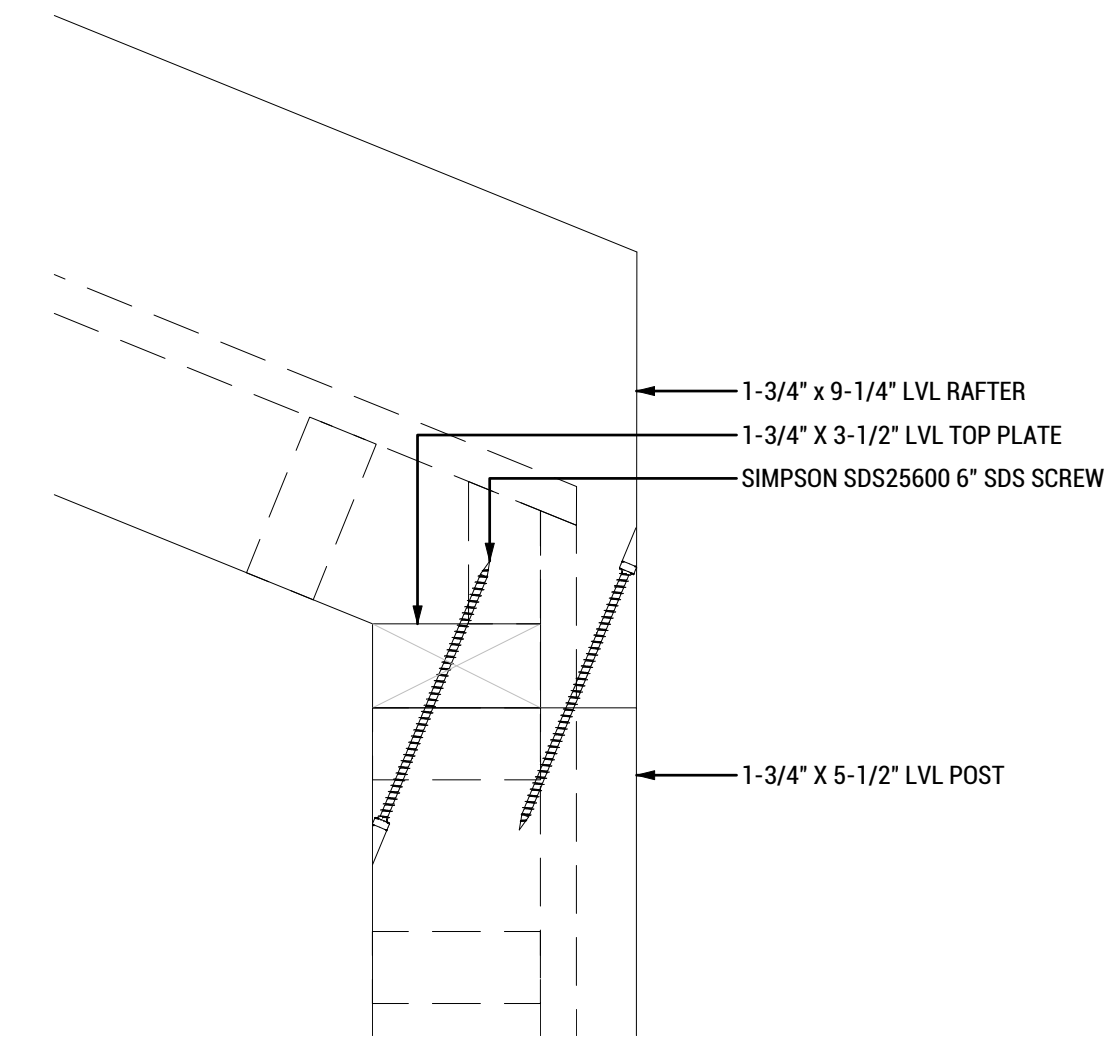
**D8 TYP. WALL ASSEMBLY**  
SCALE: 3"=1'-0"



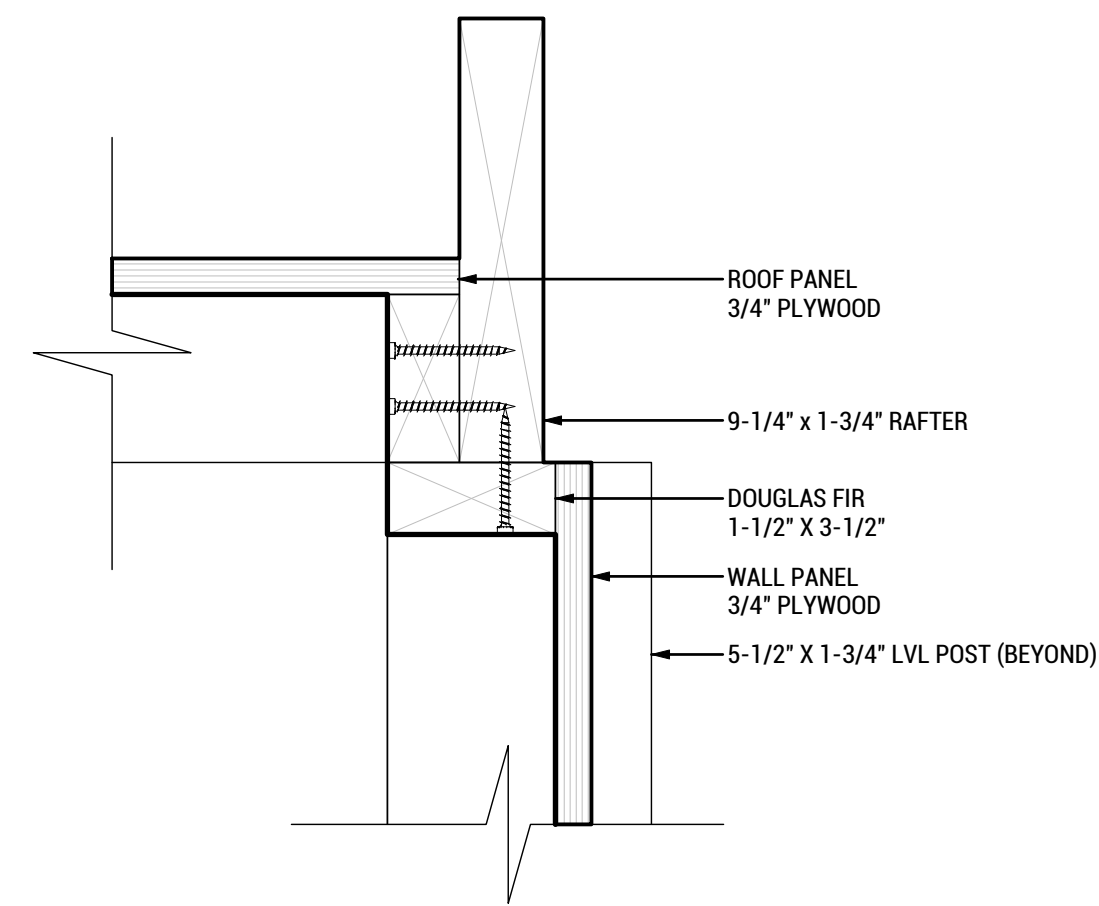
**D6 PLAN: TALL WALL CORNER**  
SCALE: 3"=1'-0"



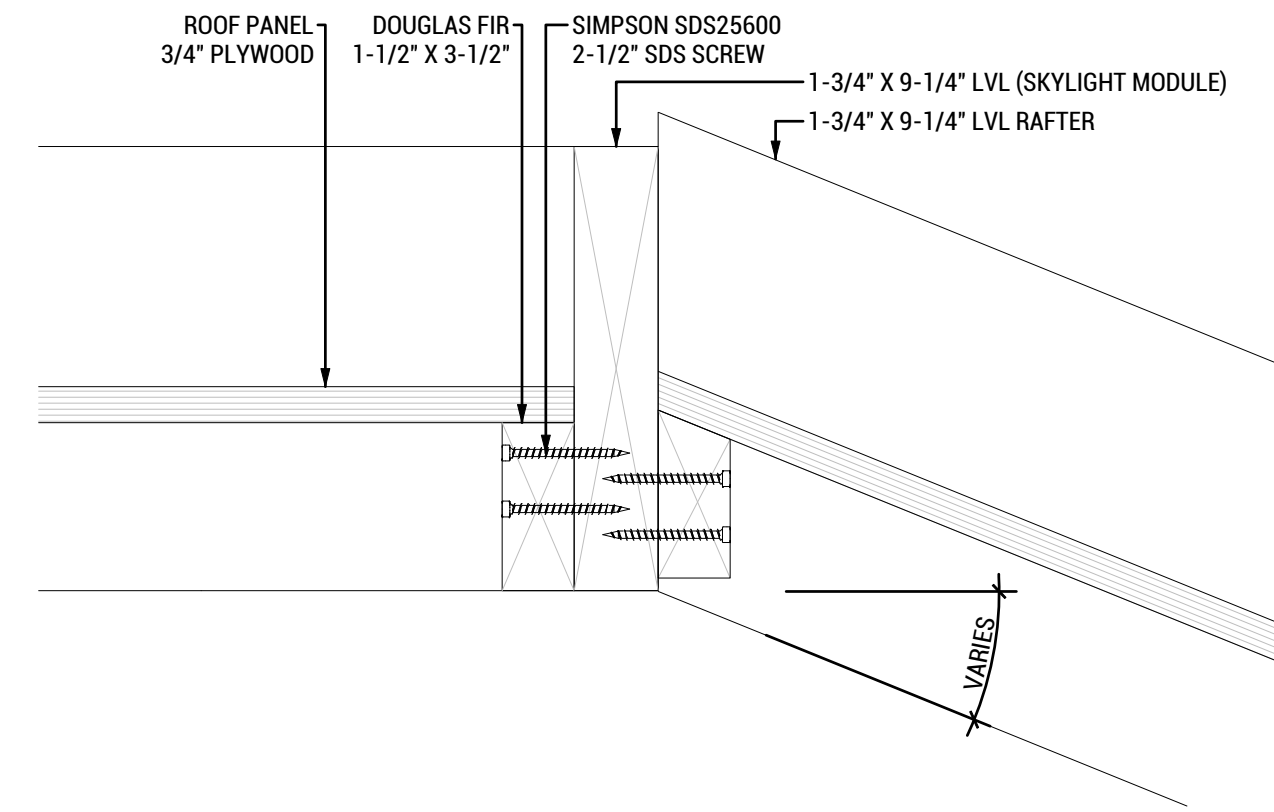
**C4 RAFTER TO POST**  
SCALE: 3"=1'-0"



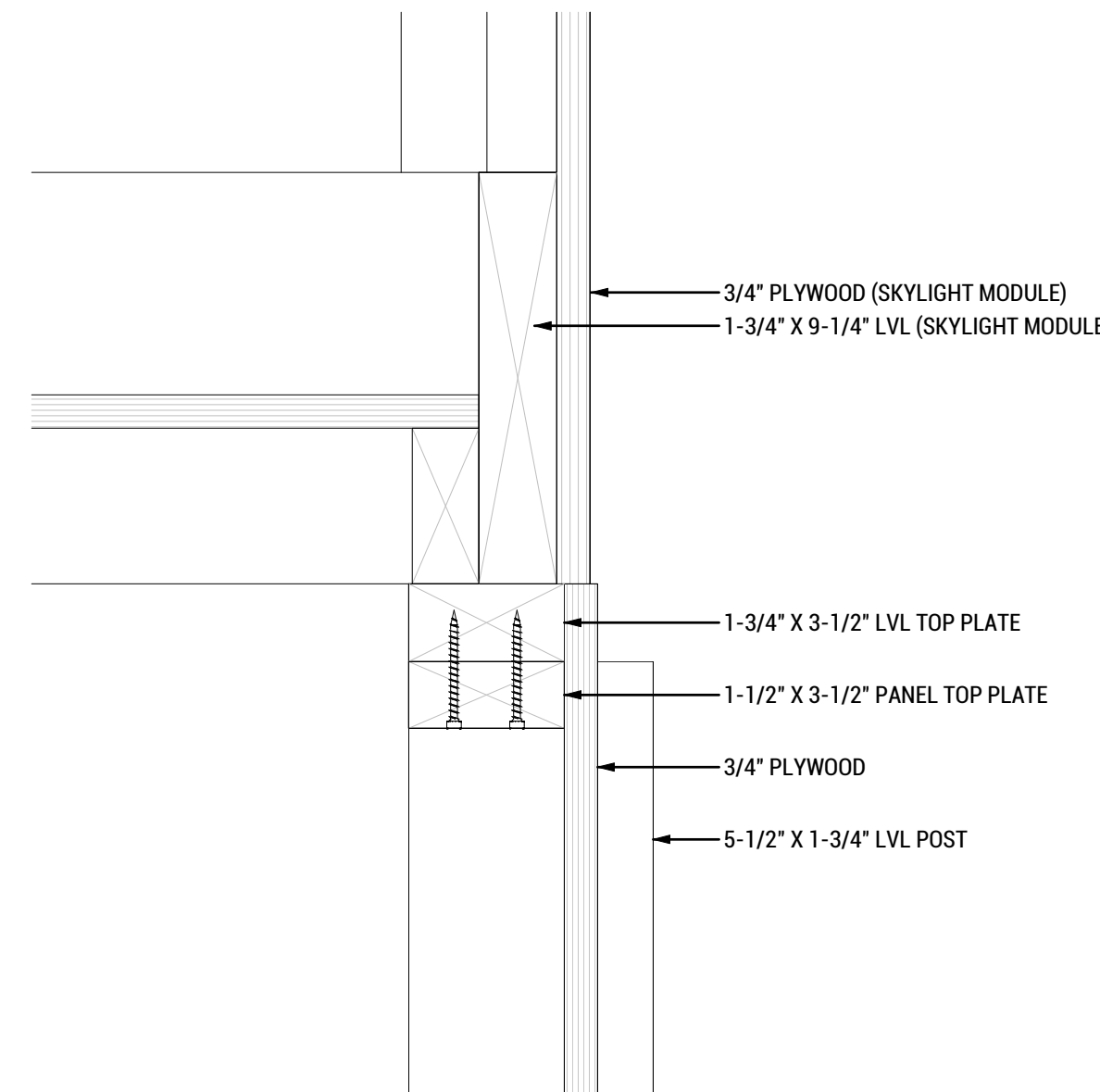
**C2 STUD TO RIDGE BEAM**  
SCALE: 3"=1'-0"



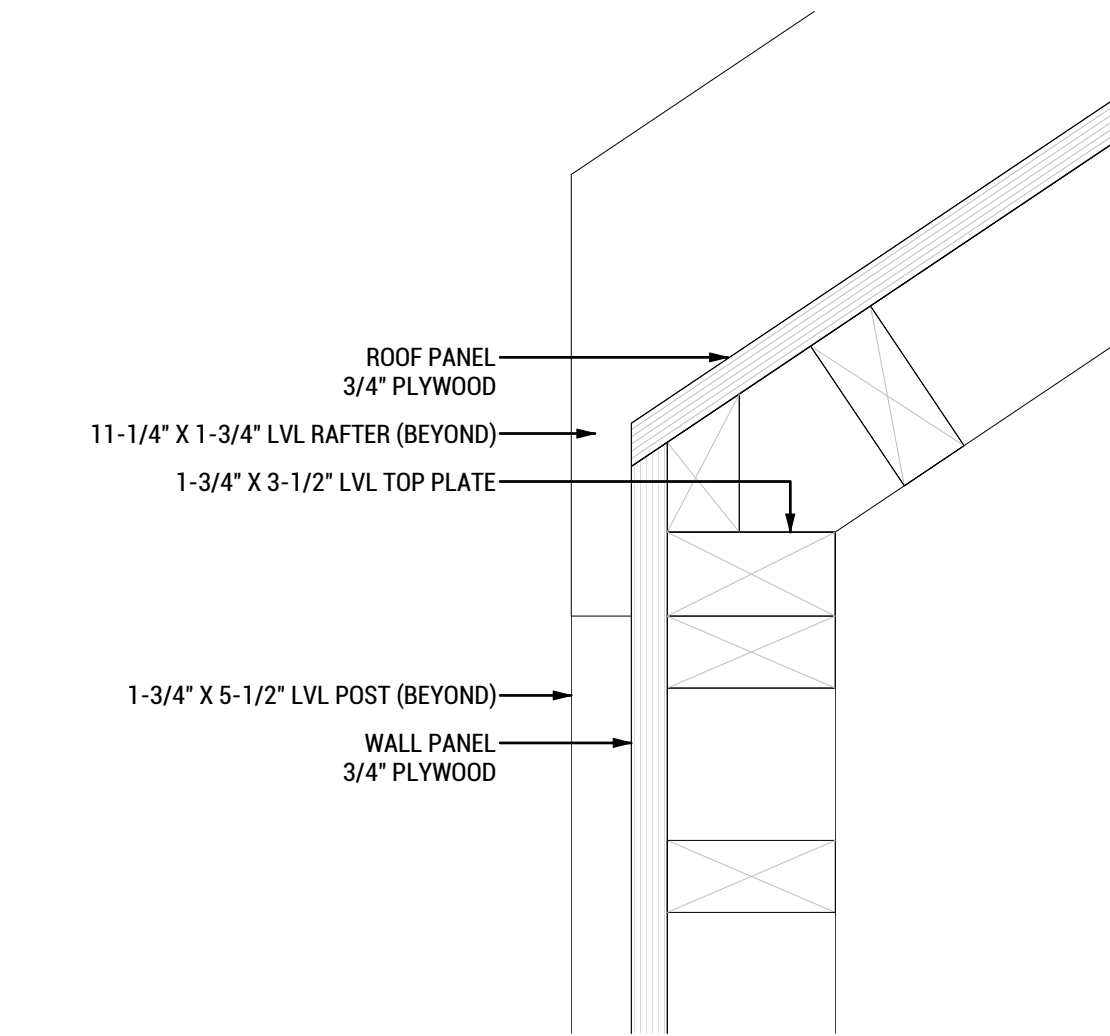
**B8 WALL / ROOF PANEL @ RAKE**  
SCALE: 3"=1'-0"



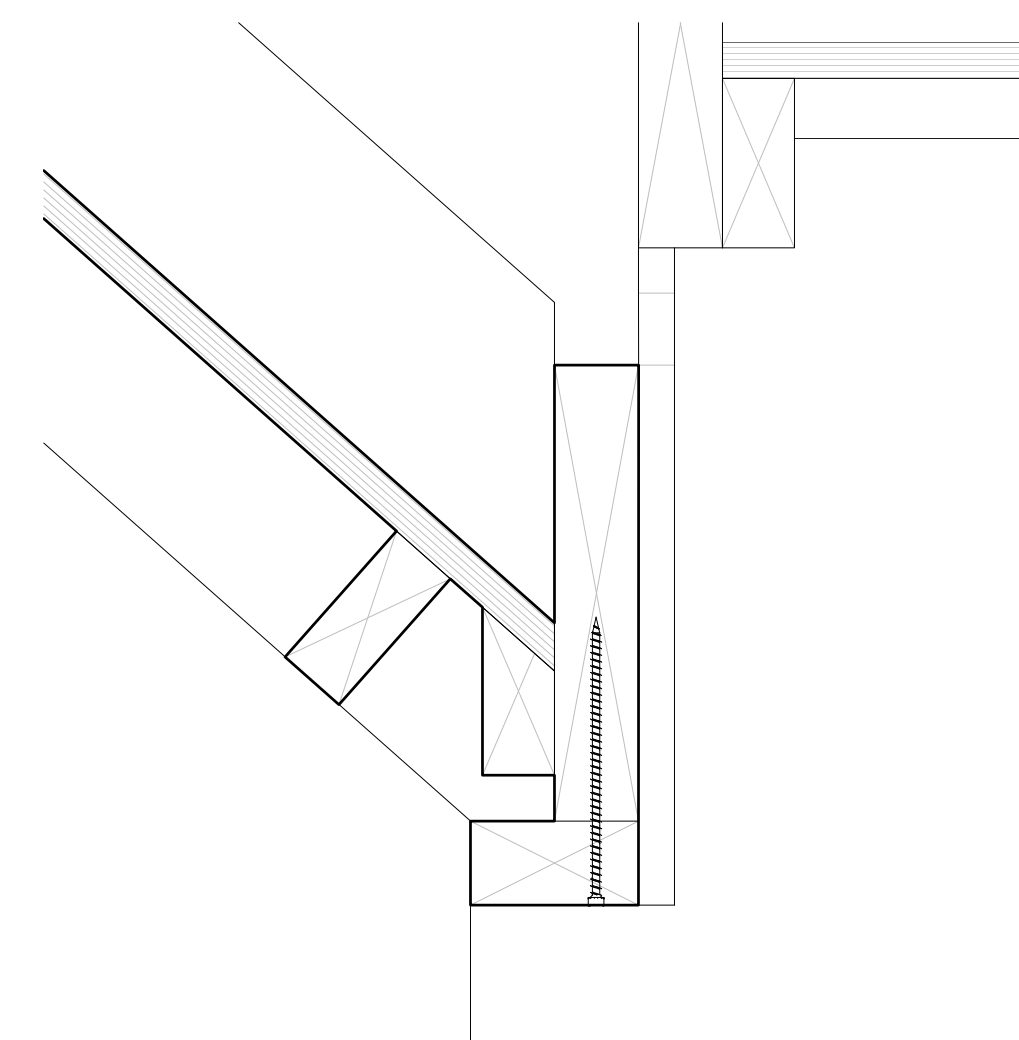
**B6 ROOF PANEL TO FRAME @ SKYLIGHT**  
SCALE: 3"=1'-0"



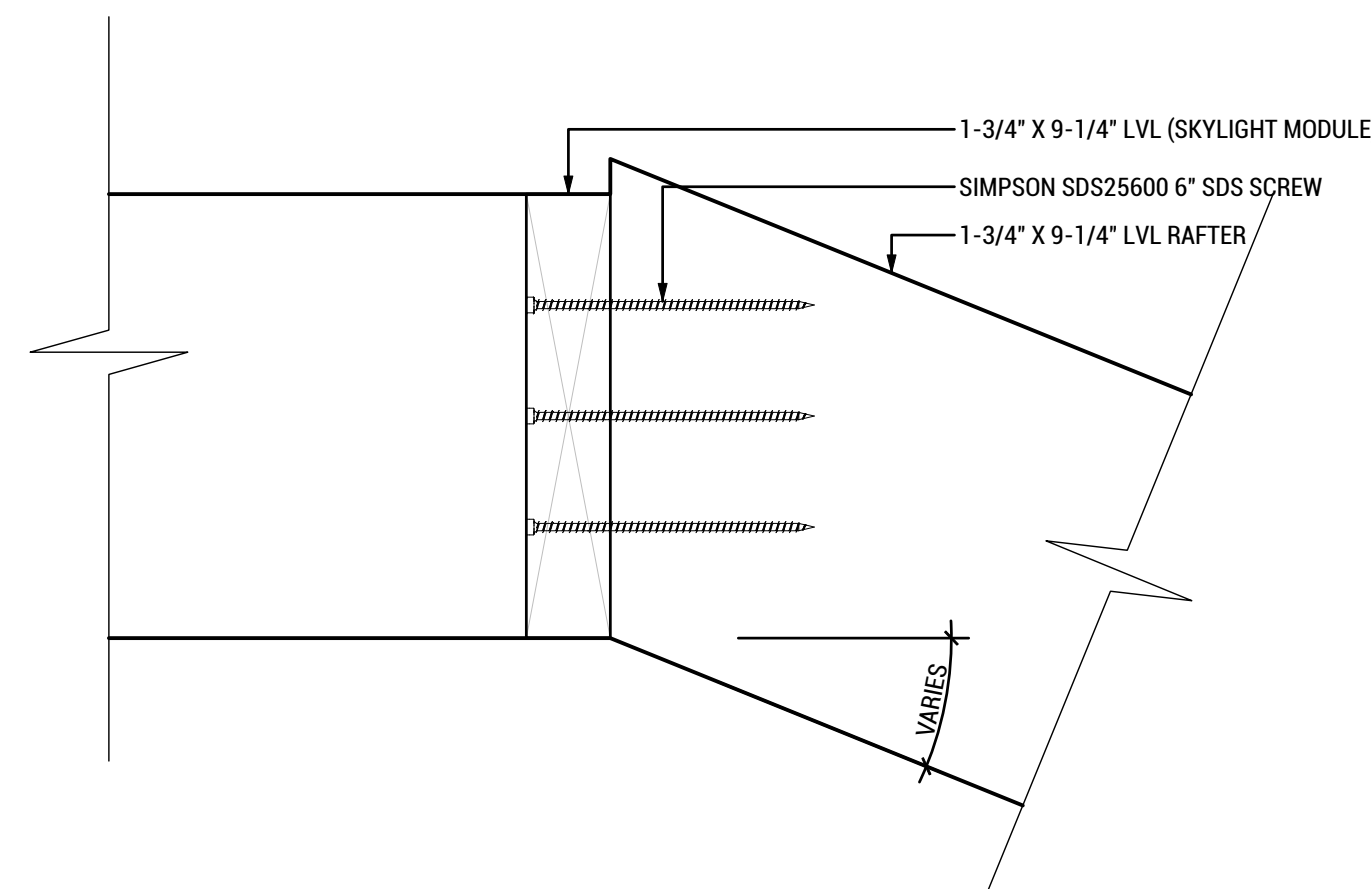
**B4 WALL PANEL TO SKYLIGHT MODULE**  
SCALE: 3"=1'-0"



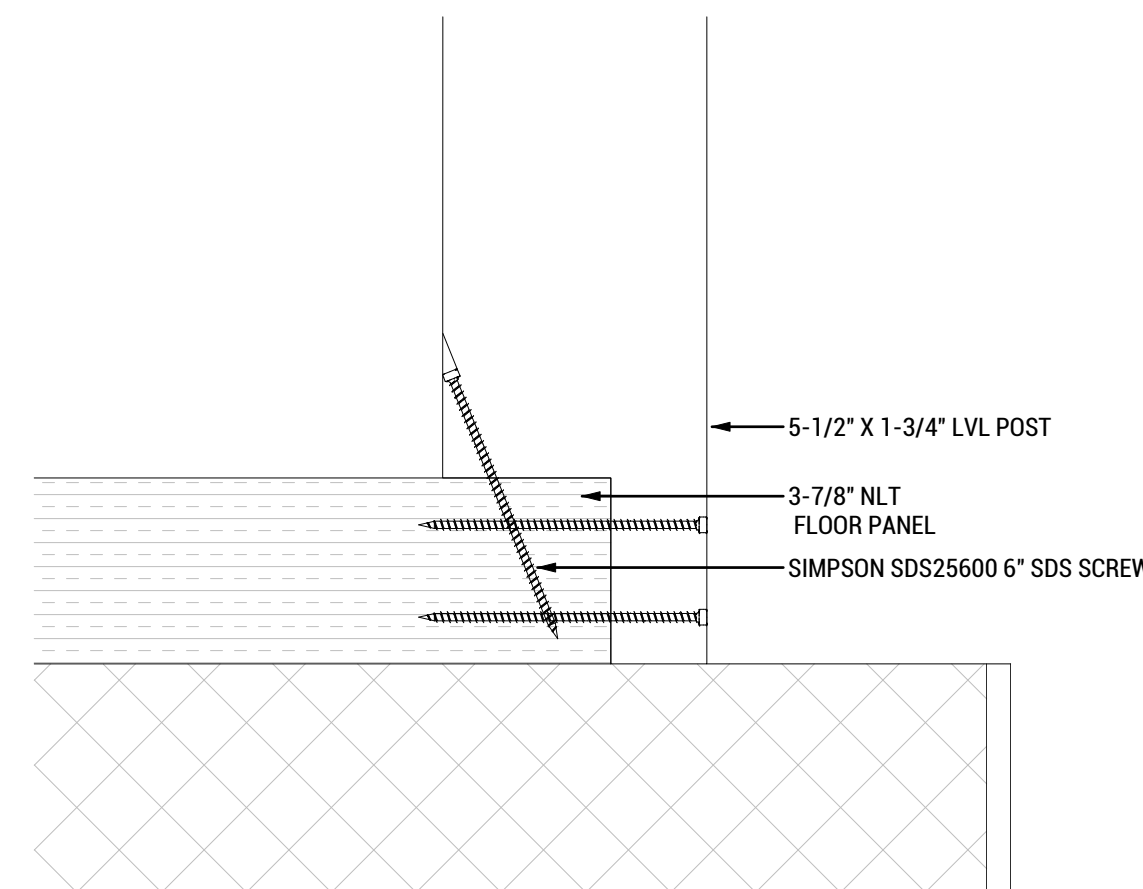
**B2 STUD TO RAFTER @ GUTTER**  
SCALE: 3"=1'-0"



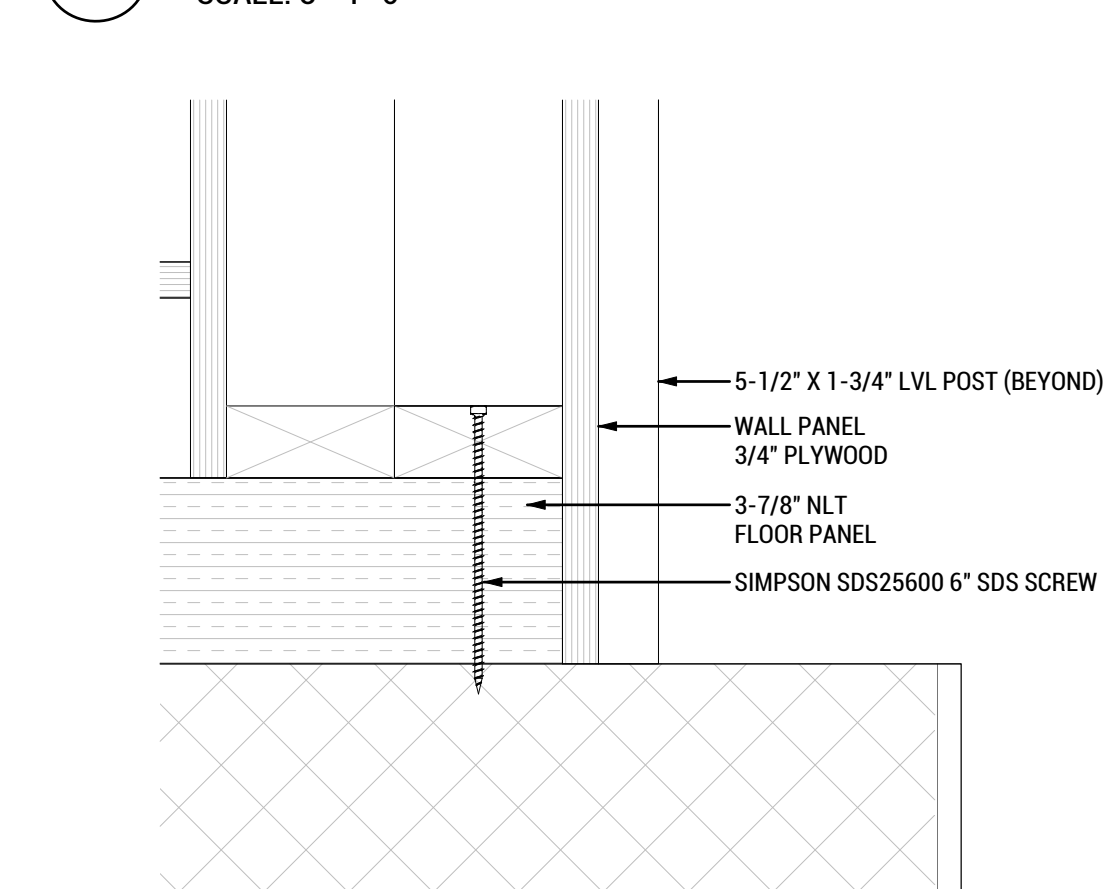
**A8 ROOF PANEL TO LVL JOIST**  
SCALE: 3"=1'-0"



**A6 TYP. RAFTER TO SYLIGNT**  
SCALE: 3"=1'-0"



**A4 STUD TO FLOOR**  
SCALE: 3"=1'-0"



**A2 WALL TO FLOOR**  
SCALE: 3"=1'-0"



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	02/17/2017	FINAL CHECKSET
	11/15/2016	80% DD SET

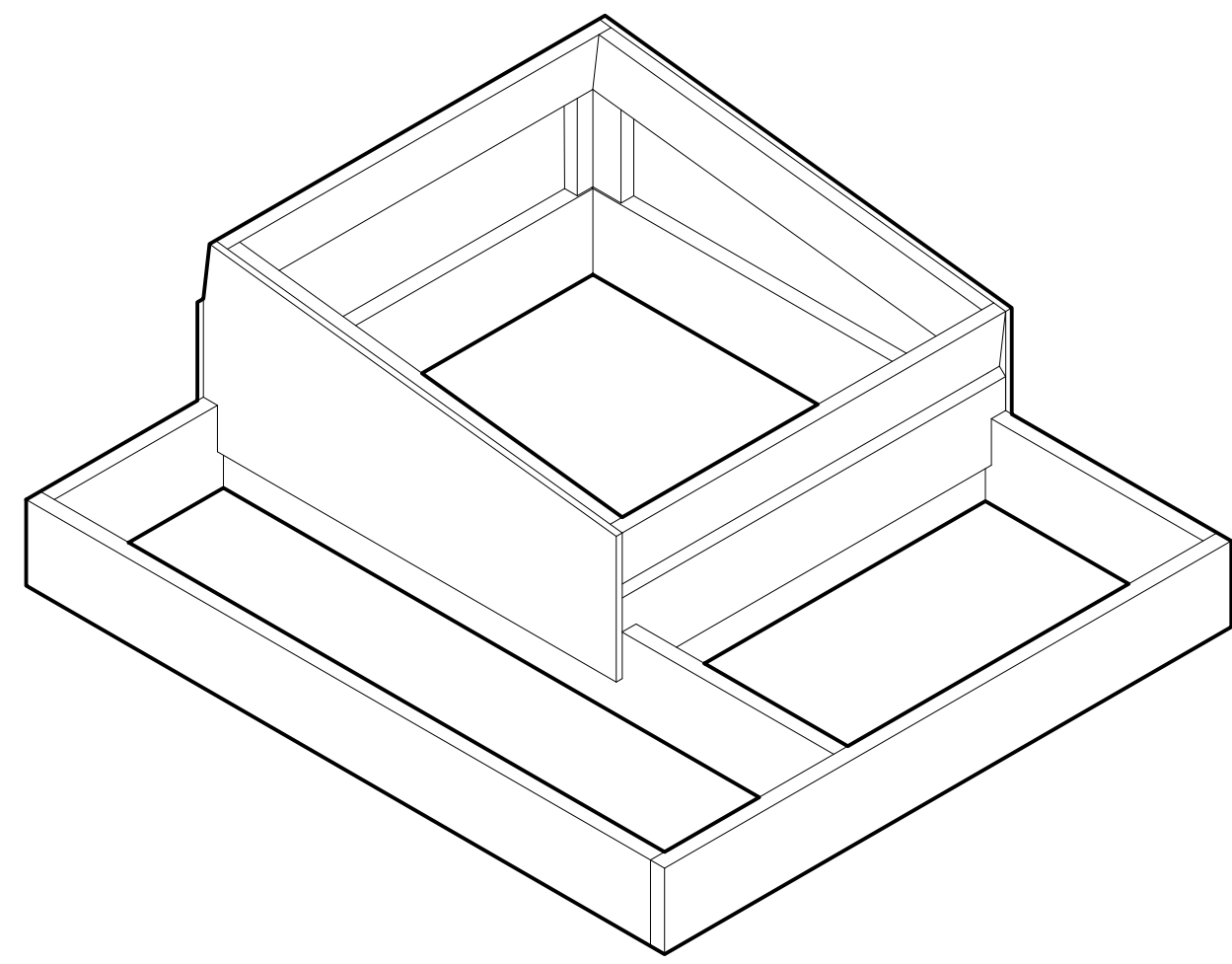
LOT NUMBER: LOT #107

SHEET TITLE:

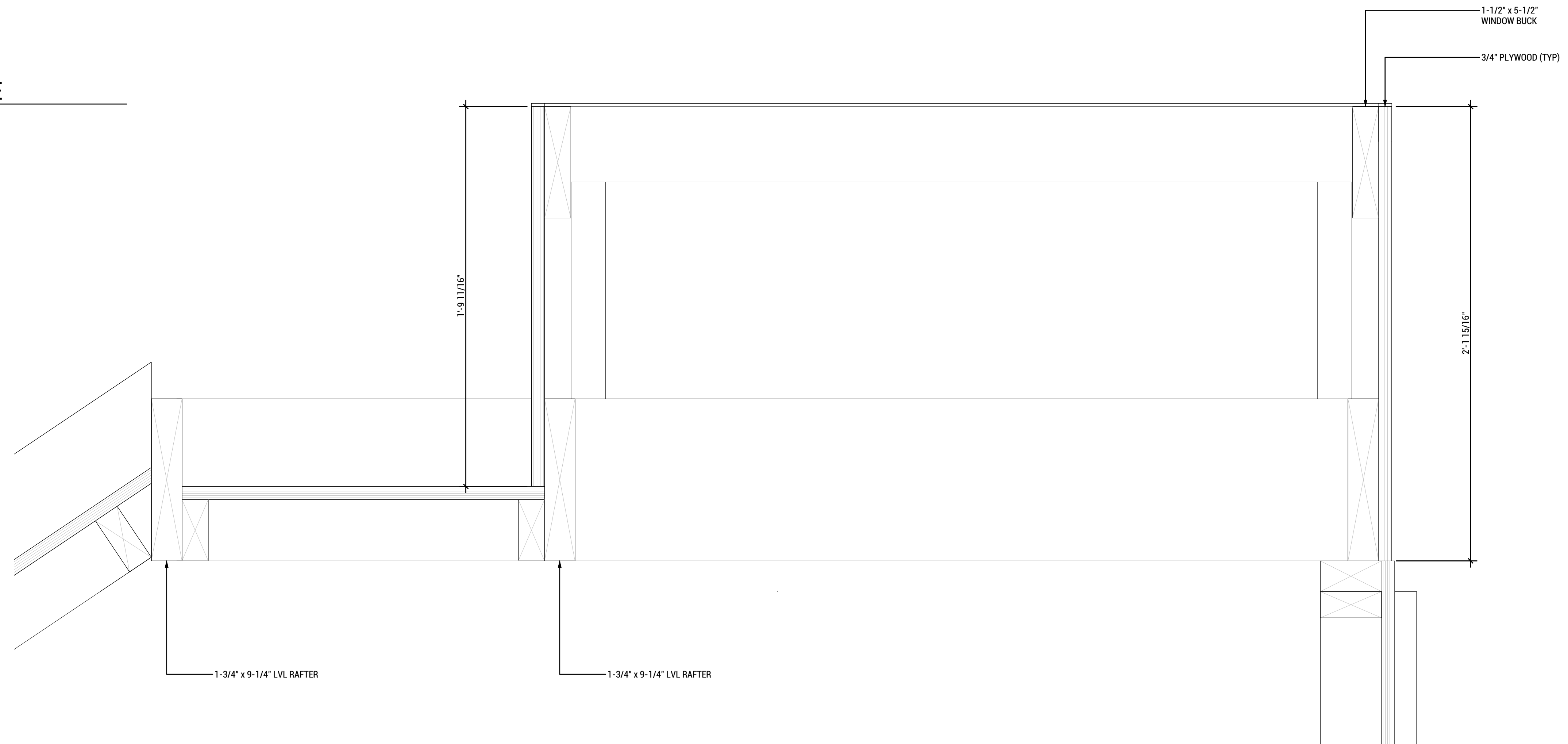
DETAILS

DRAWN BY: MT CHECKED BY: DG

S-501



**C8** AXON: SKYLIGHT MODULE  
SCALE: N/A



**A6** LOOKING WEST @ SKYLIGHT MODULE  
SCALE: 3"=1'-0"



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LOT NUMBER: LOT #107

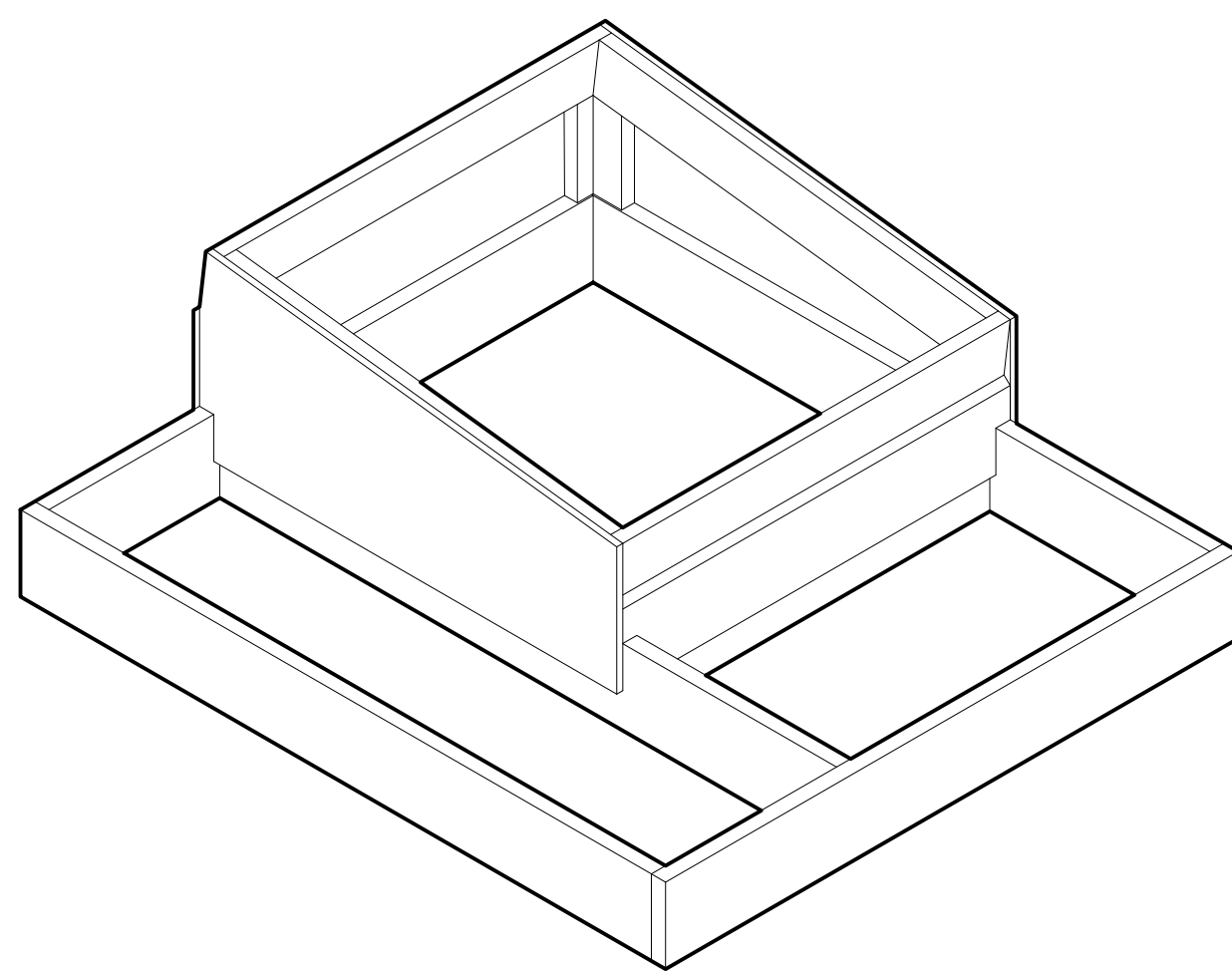
SHEET TITLE:

**SKYLIGHT MODULE**

DRAWN BY: SA CHECKED BY: DG

**S-502**

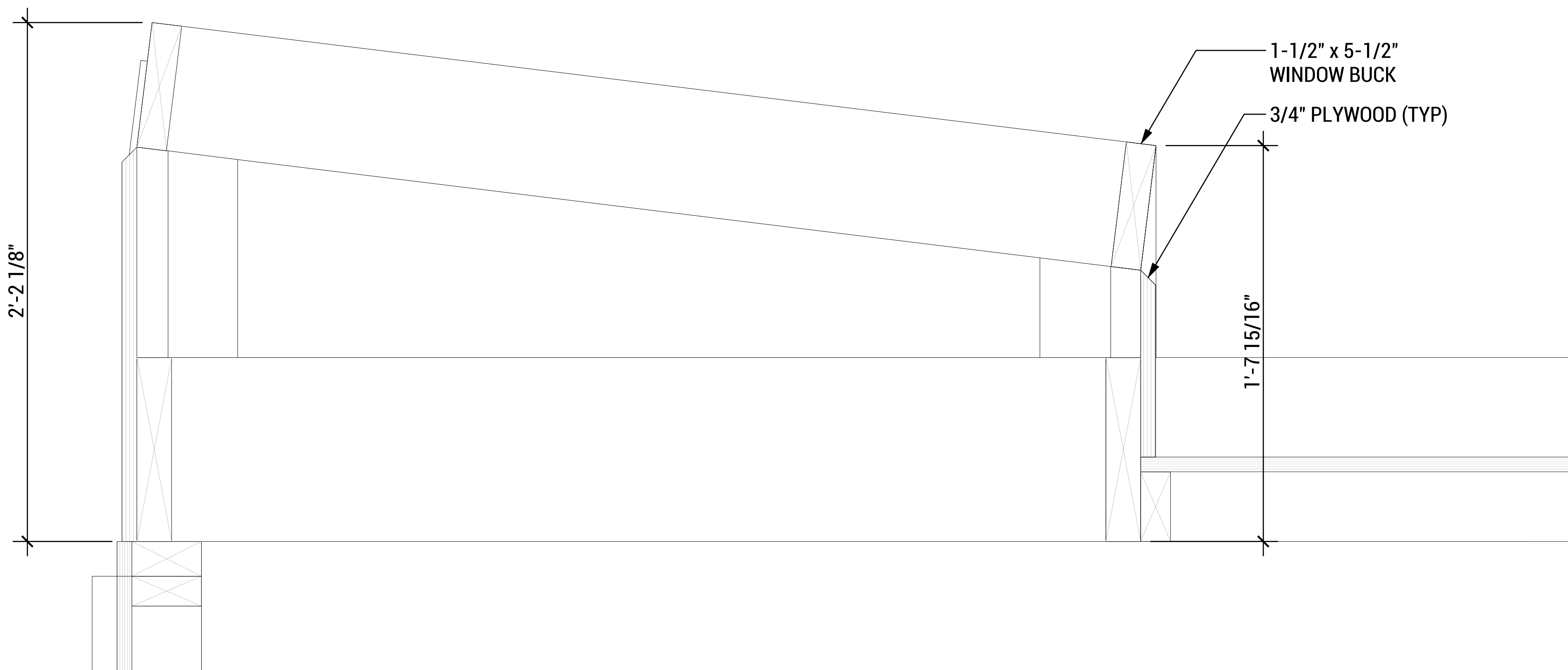




C8

**AXON: SKYLIGHT MODULE**

SCALE: N/A



1-1/2" x 5-1/2"  
WINDOW BUCK

3/4" PLYWOOD (TYP)

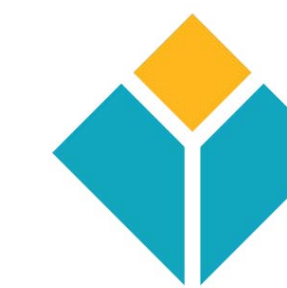
2'-2 1/8"

1'-7 15/16"

C6

**LOOKING NORTH @ SKYLIGHT MODULE**

SCALE: 3"=1'-0"



ENCITY



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LOT NUMBER: LOT #107

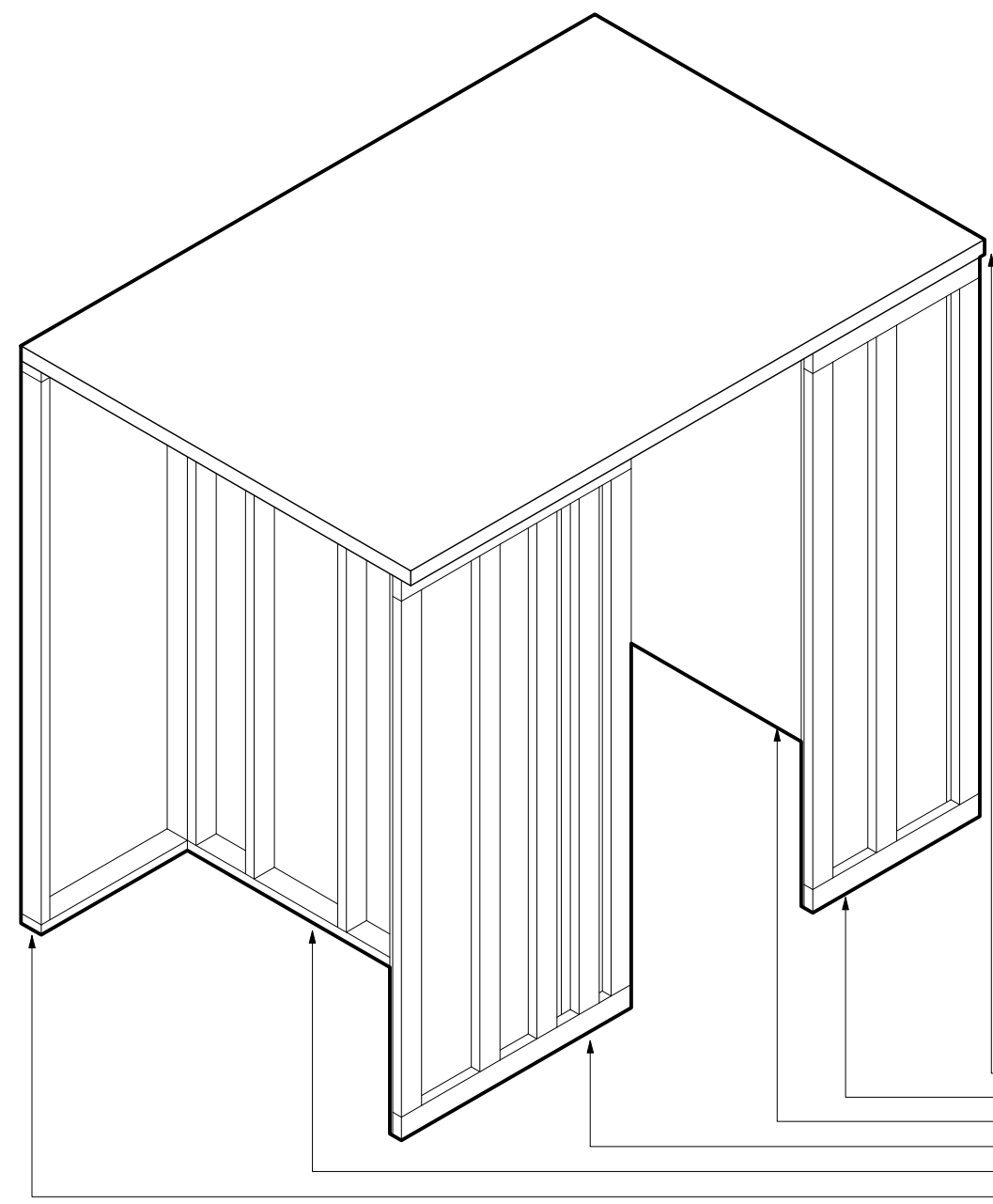
SHEET TITLE:

**SKYLIGHT MODULE**

DRAWN BY: SA CHECKED BY: DG

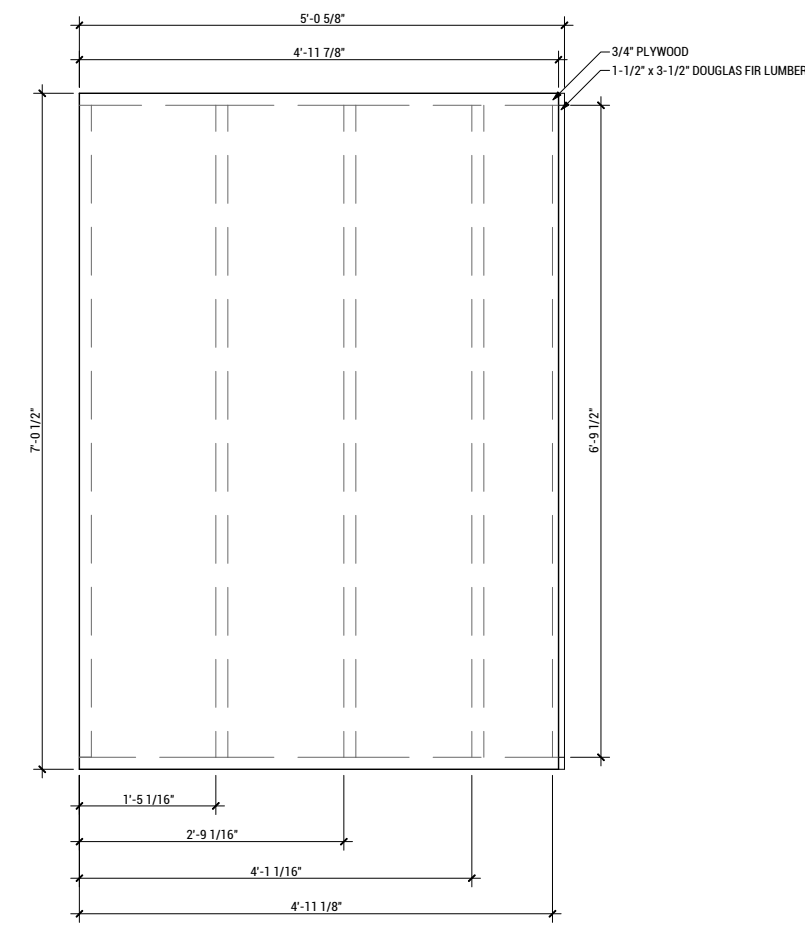
**S-503**

8/8/2017 5:05

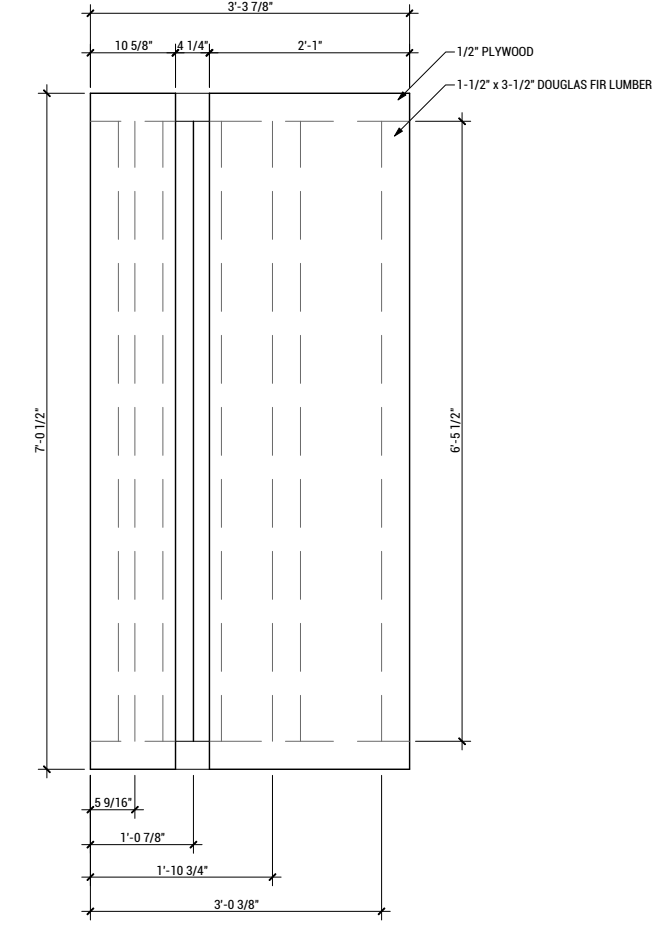


FLOOR PANEL 01  
 WALL ASSEMBLY 03  
 WALL ASSEMBLY 04  
 WALL ASSEMBLY 02  
 WALL ASSEMBLY 01  
 WALL ASSEMBLY 05

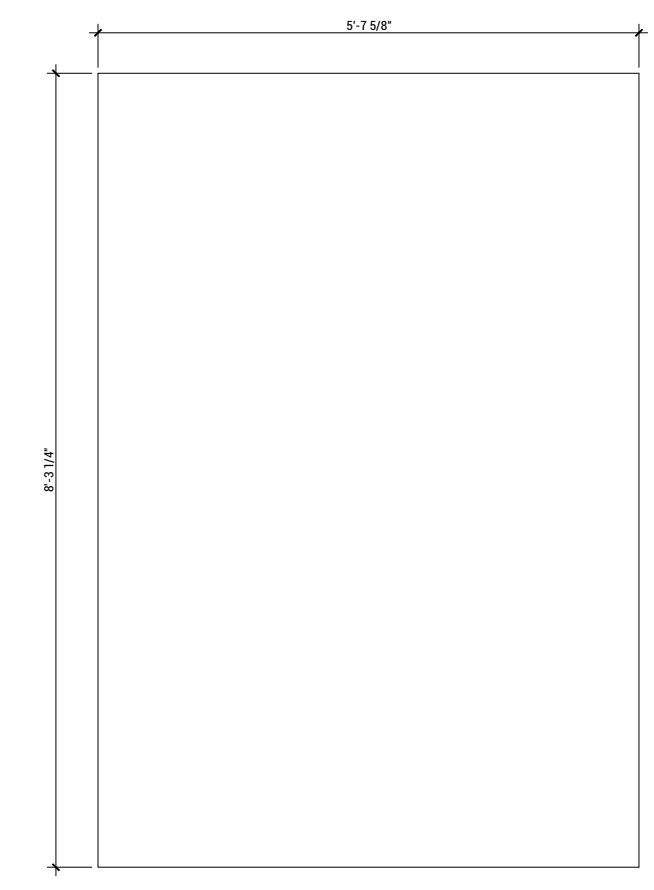
**B1 TINYHOME BATHROOM MODULE**  
 SCALE: N/A



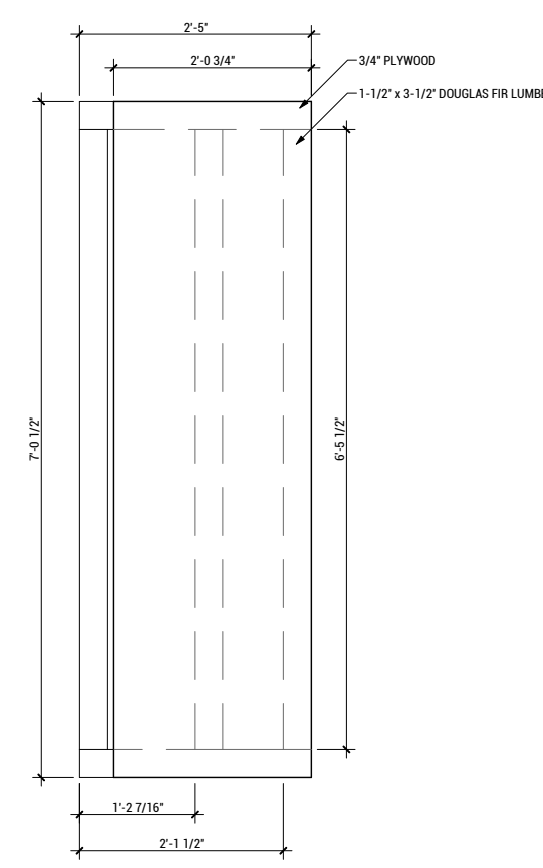
**A5 WALL ASSEMBLY 01**  
 SCALE: 1/2"=1'-0"



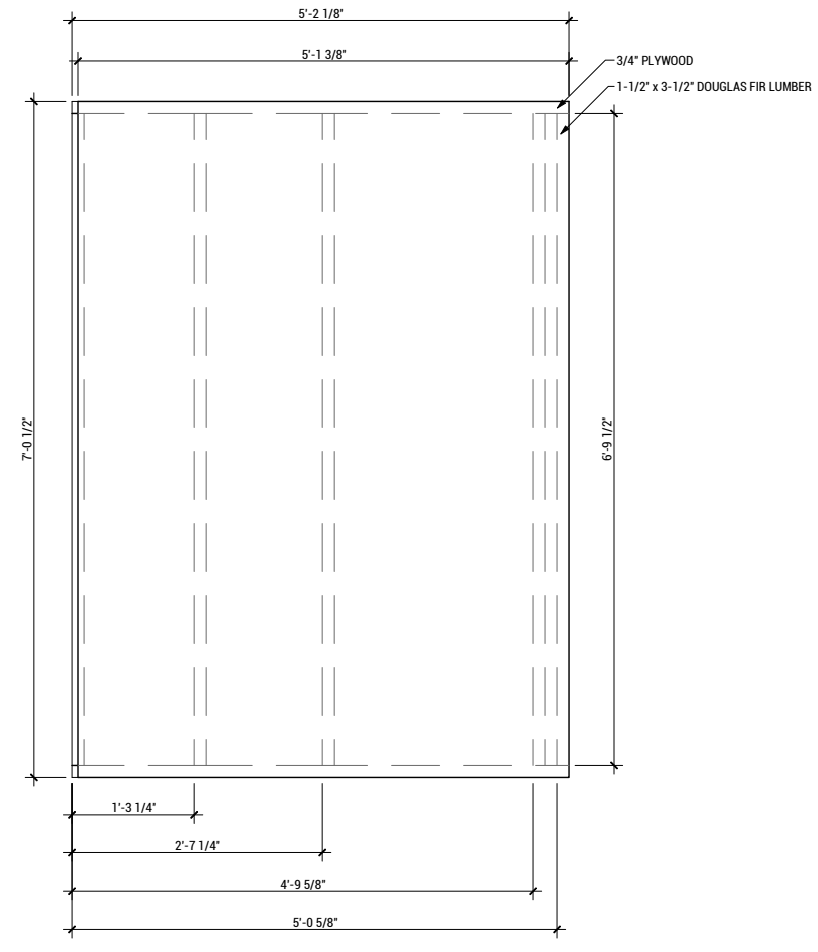
**A4 WALL ASSEMBLY 02**  
 SCALE: 1/2"=1'-0"



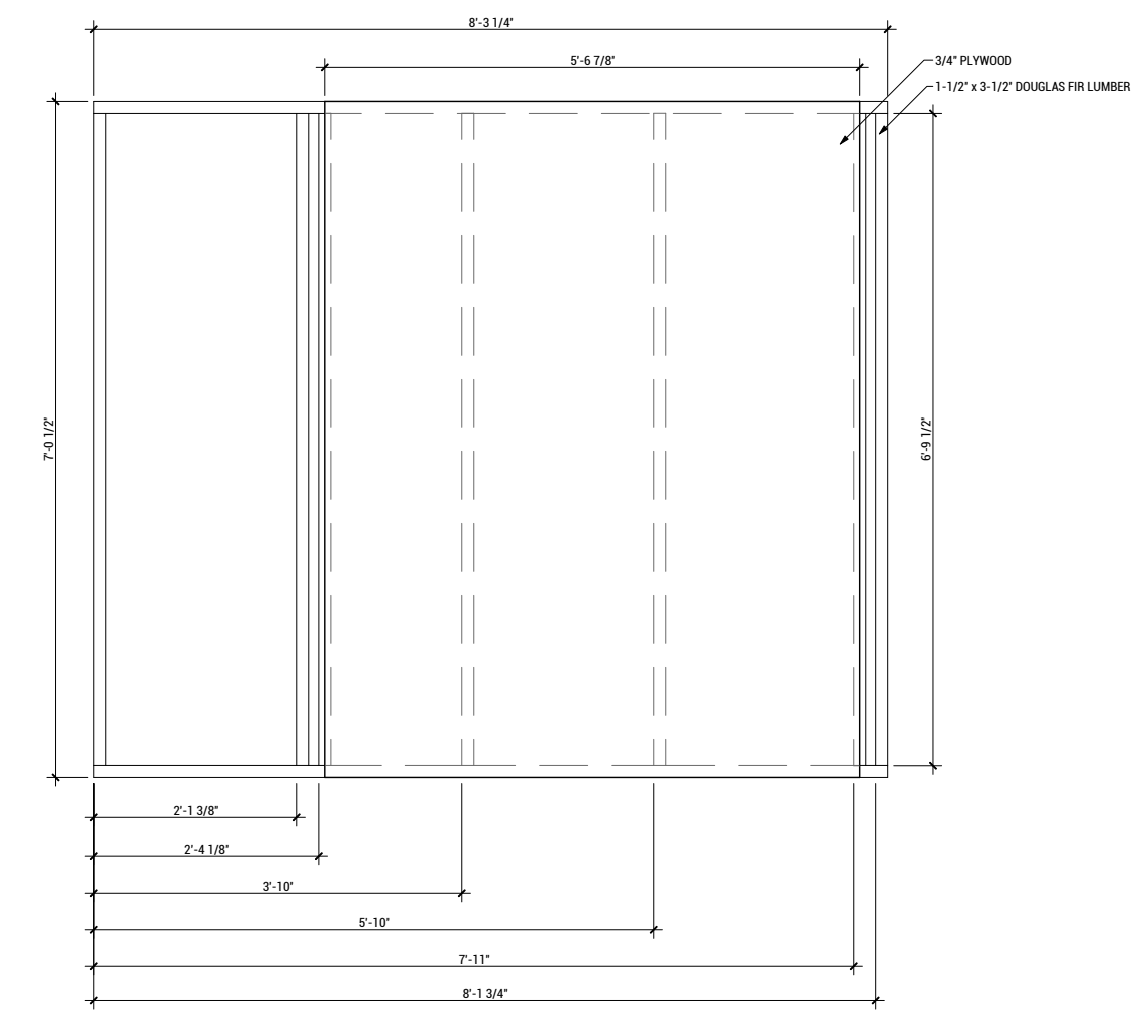
**A2 FLOOR ASSEMBLY 01**  
 SCALE: 1/2"=1'-0"



**A5 WALL ASSEMBLY 03**  
 SCALE: 1/2"=1'-0"



**A4 WALL ASSEMBLY 04**  
 SCALE: 1/2"=1'-0"



**A2 WALL ASSEMBLY 05**  
 SCALE: 1/2"=1'-0"



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	11/15/2016	80% DD SET

LOT NUMBER: LOT #107

SHEET TITLE:  
**TINYHOME BATHROOM MODULE STRUCTURAL DETAILS**

DRAWN BY: SA CHECKED BY: DG

**S-504**



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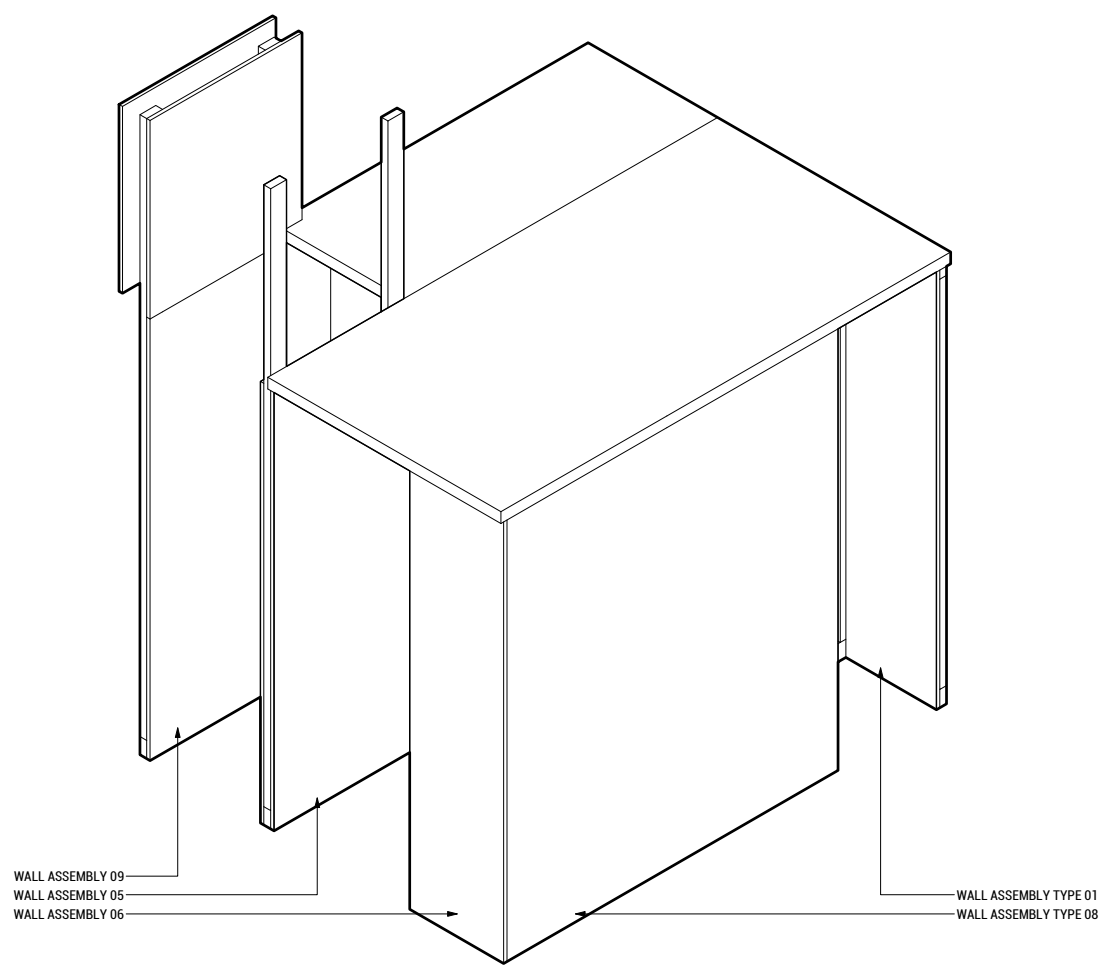
LOT NUMBER: LOT #107

SHEET TITLE:

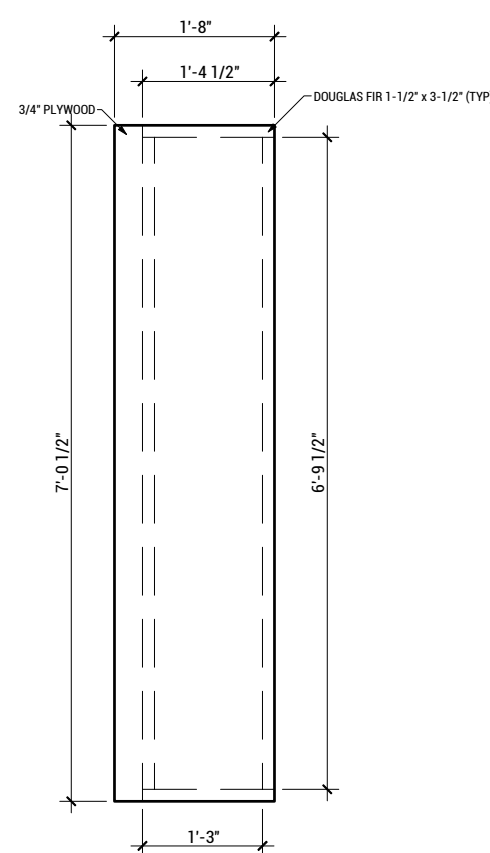
TINYHOME CLOSET MODULE STRUCTURAL DETAILS

DRAWN BY: SA CHECKED BY: DG

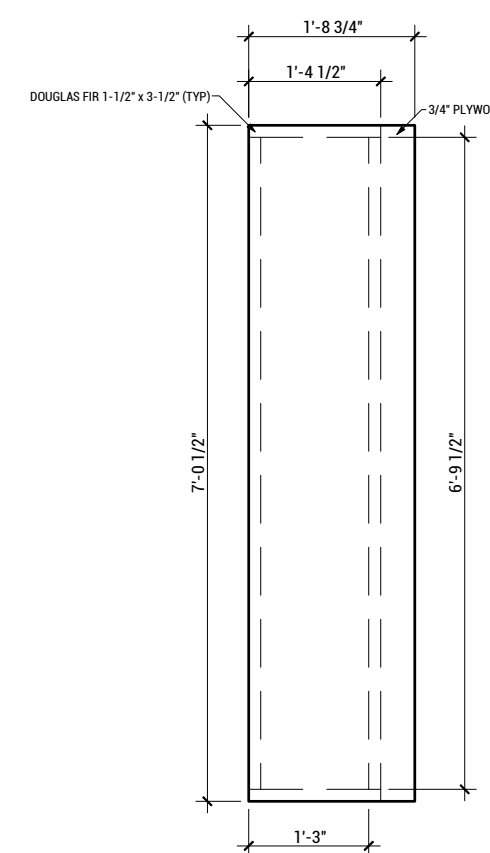
S-505



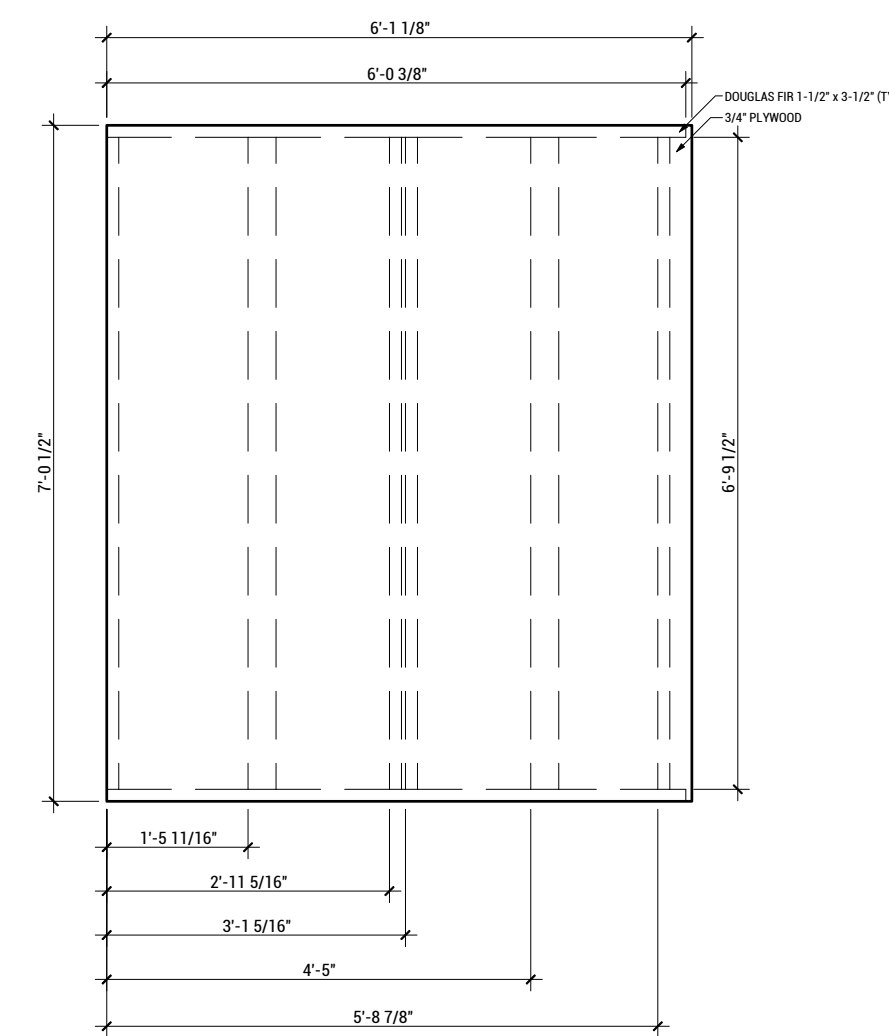
C8 CLOSET MODULE AXON SE  
 SCALE: N/A



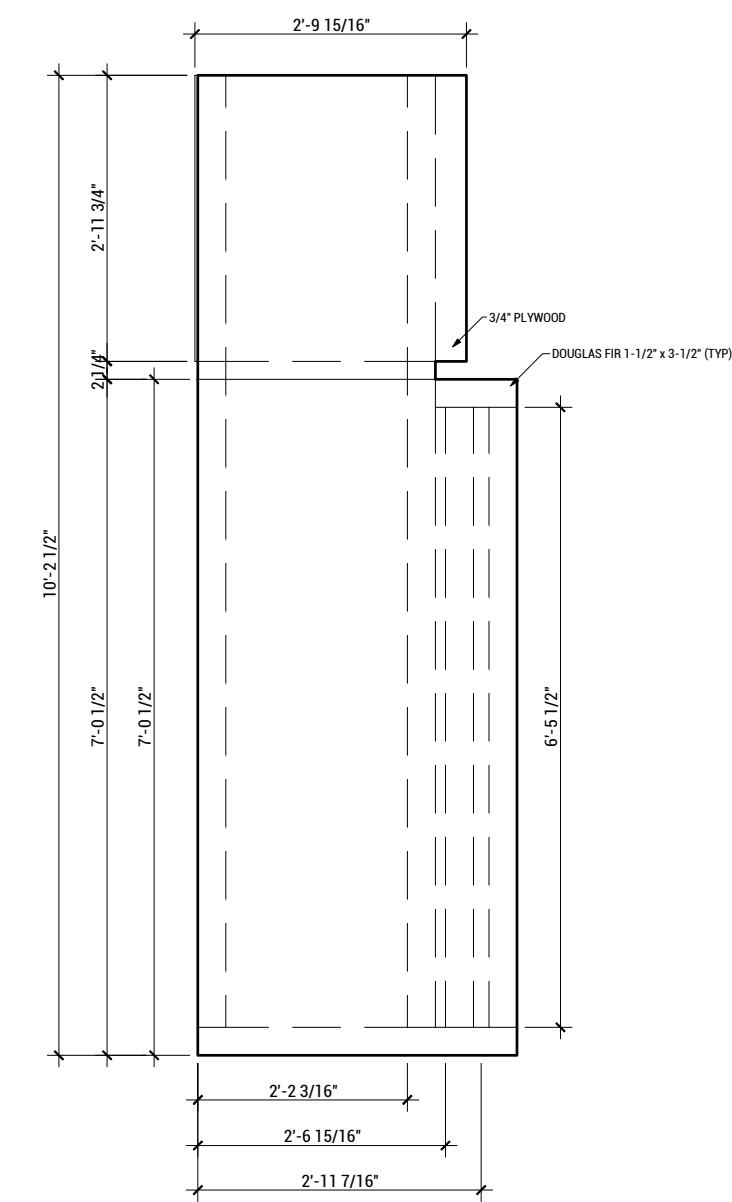
A6 WALL ASSEMBLY 06  
 SCALE: 1/2" = 1'



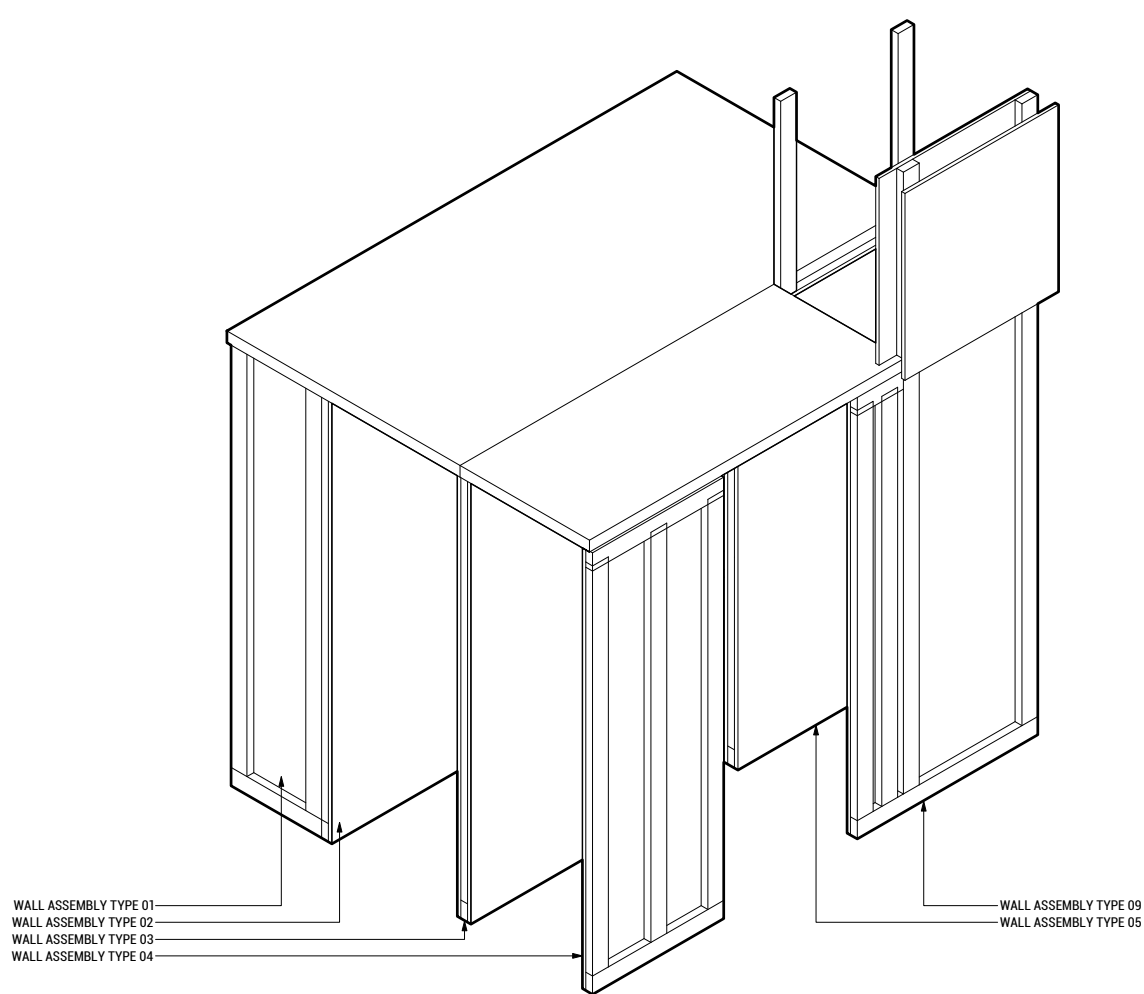
C5 WALL ASSEMBLY 07  
 SCALE: 1/2" = 1'



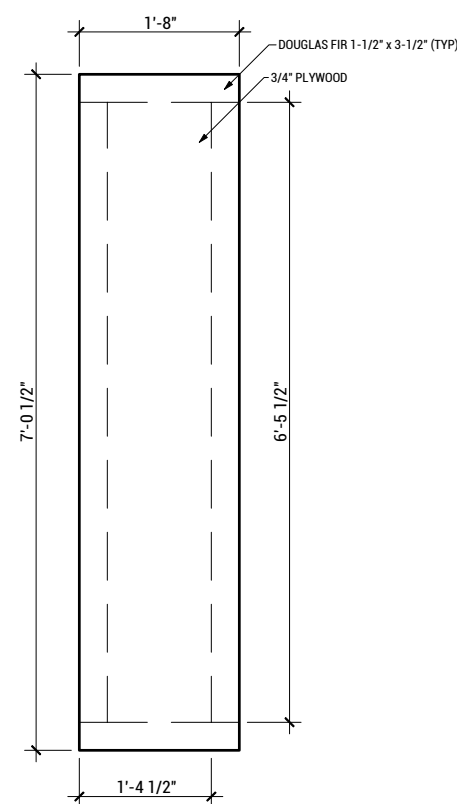
C4 WALL ASSEMBLY 08  
 SCALE: 1/2" = 1'



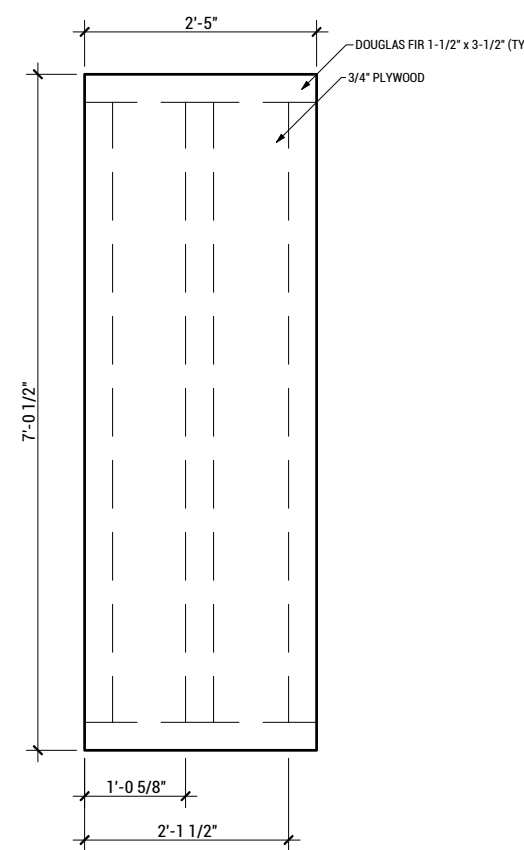
C2 WALL ASSEMBLY 09  
 SCALE: 1/2" = 1'



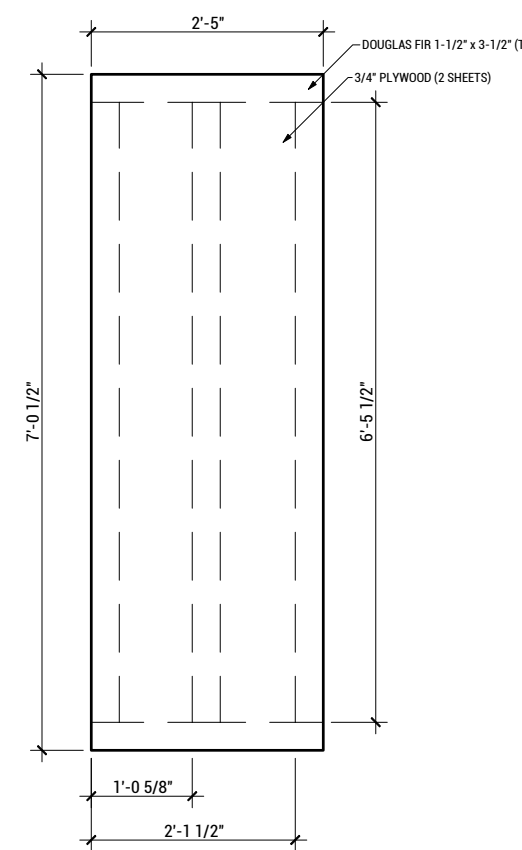
A8 CLOSET MODULE AXON NW  
 SCALE: N/A



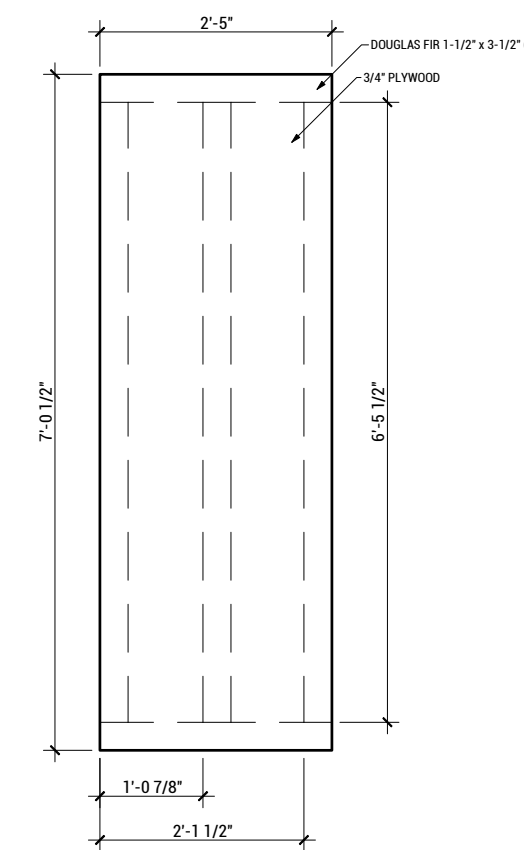
A6 WALL ASSEMBLY 01  
 SCALE: 1/2" = 1'



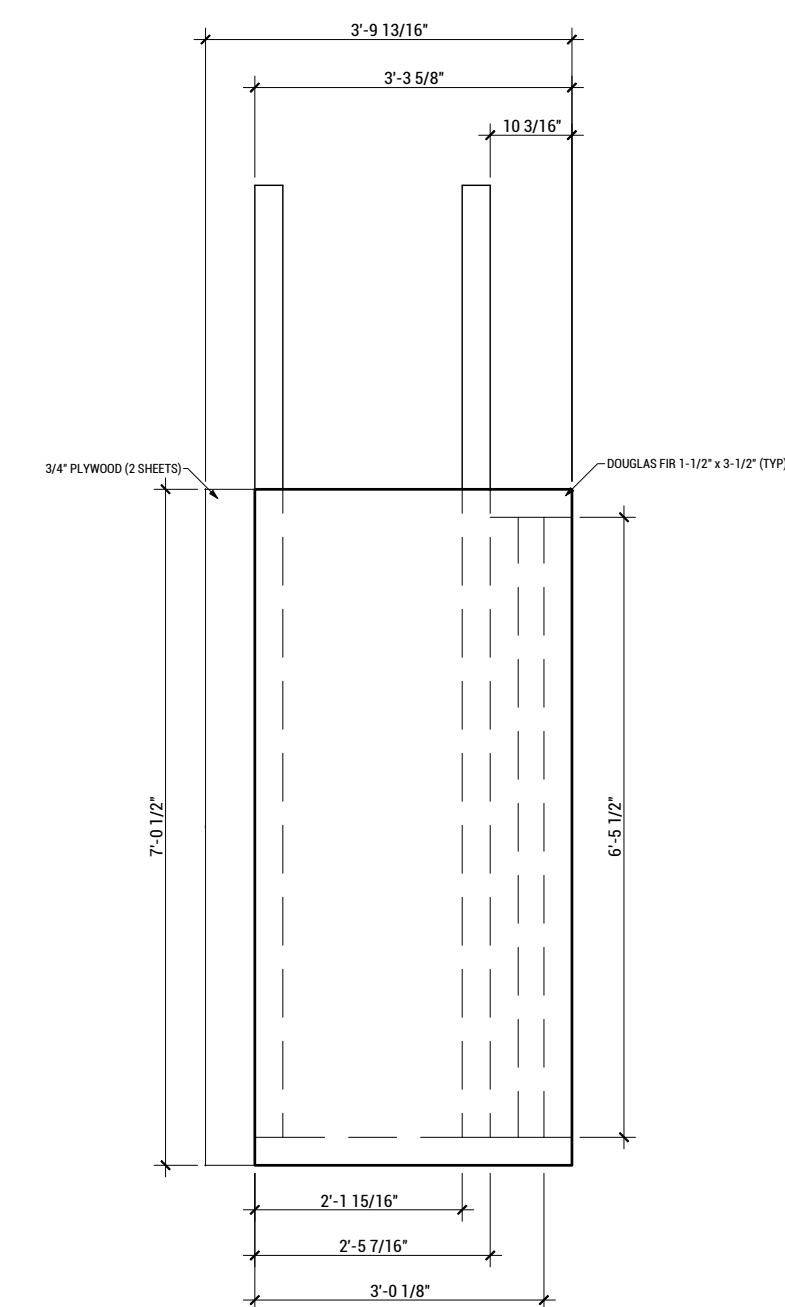
A5 WALL ASSEMBLY 02  
 SCALE: 1/2" = 1'



A4 WALL ASSEMBLY 03  
 SCALE: 1/2" = 1'



A3 WALL ASSEMBLY 04  
 SCALE: 1/2" = 1'



A2 WALL ASSEMBLY 05  
 SCALE: 1/2" = 1'





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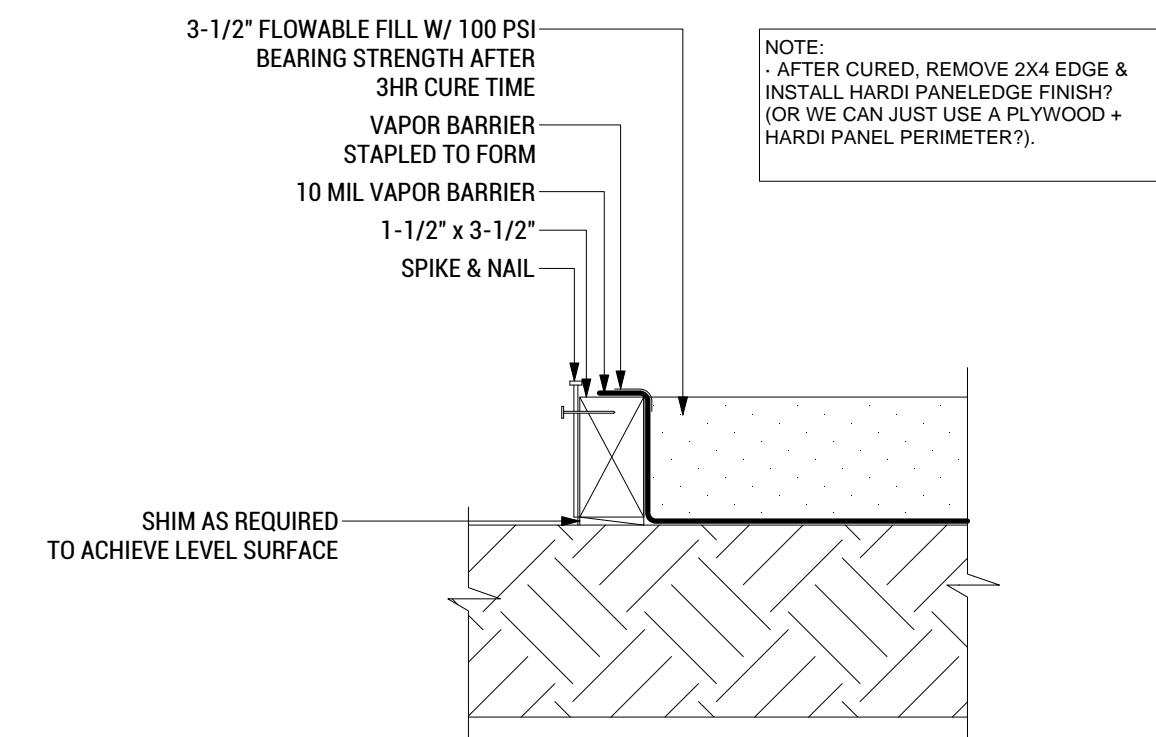
LOT NUMBER: LOT #107

SHEET TITLE:

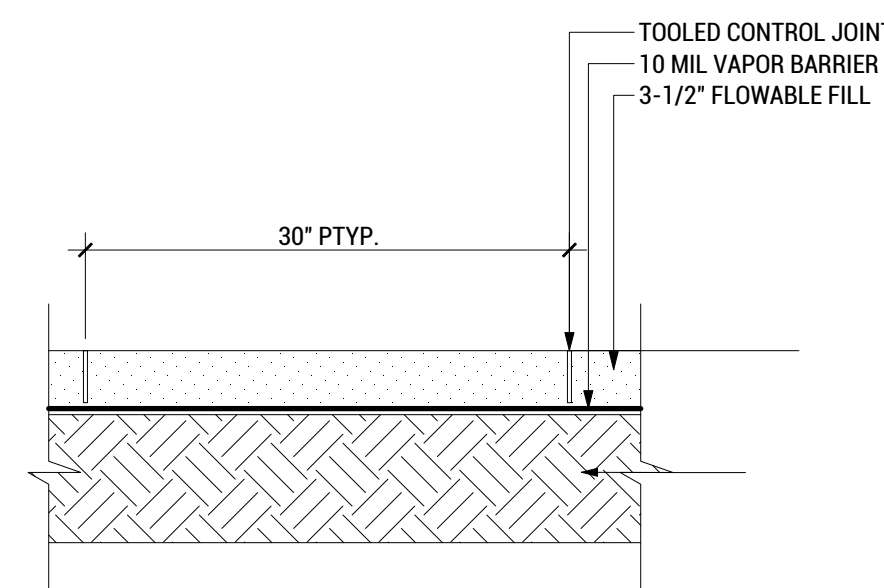
### FLOWABLE FILL DETAILS

DRAWN BY: BK CHECKED BY: XX

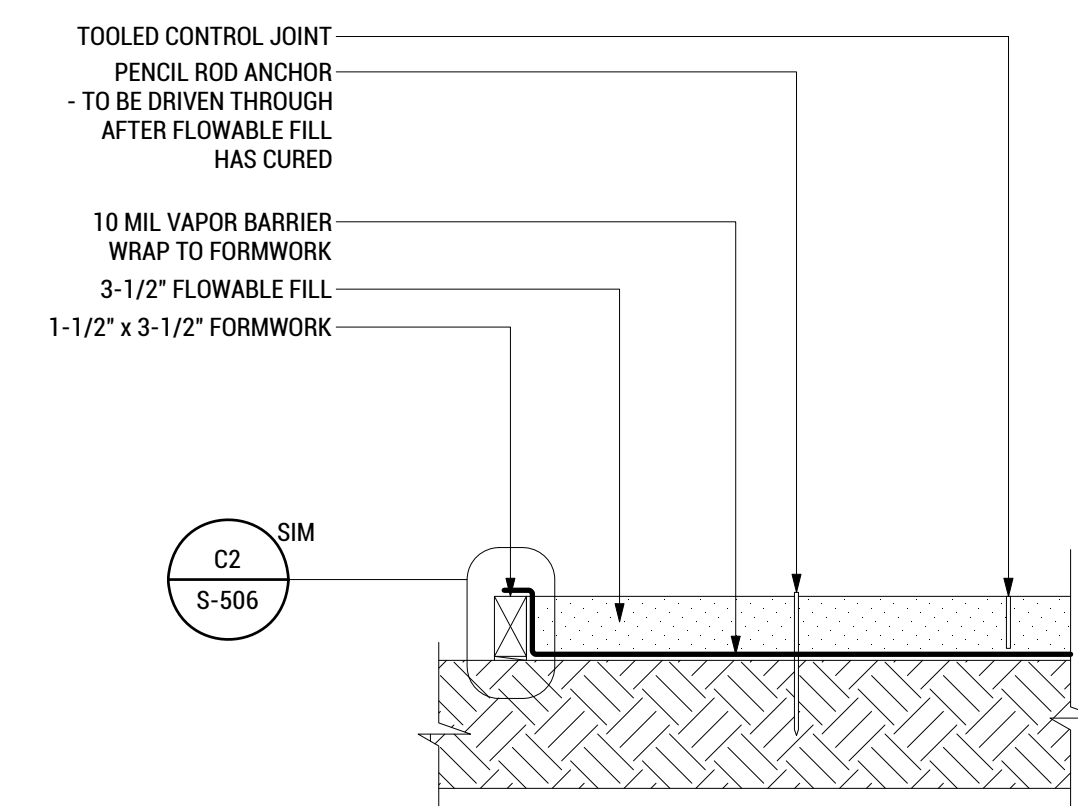
# S-506



**C2** FLOWABLE FORMWORK CONNECTION  
SCALE: 1"=1'-0"



**B2** FLOWABLE FILL  
SCALE: 1"=1'-0"



**A2** FLOWABLE FILL @ EDGE  
SCALE: 1"=1'-0"

8/17/2017 2:42

SHEET NOTES

1. SEE WINDOW AND DOOR SCHEDULE ON A-601
2. SEE WALL TYPES A2 ON A-301
3. SEE LANDSCAPE PLANS FOR LANDSCAPE LAYOUT



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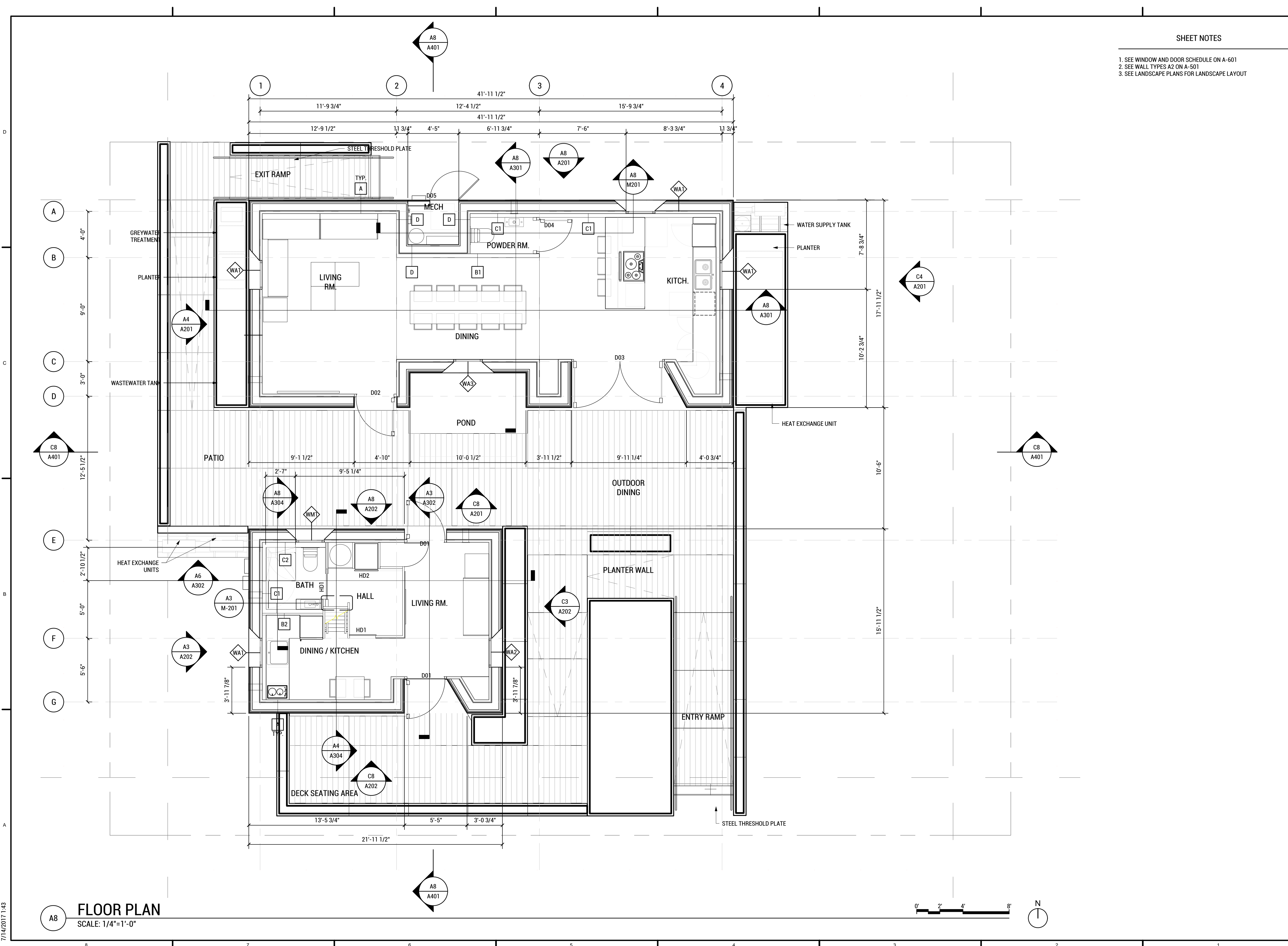
LOT NUMBER: LOT #107

SHEET TITLE:

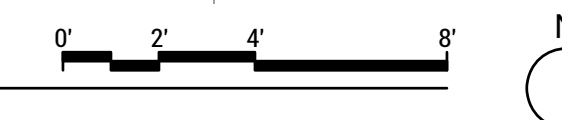
FLOOR PLAN

DRAWN BY: TJ CHECKED BY: AW

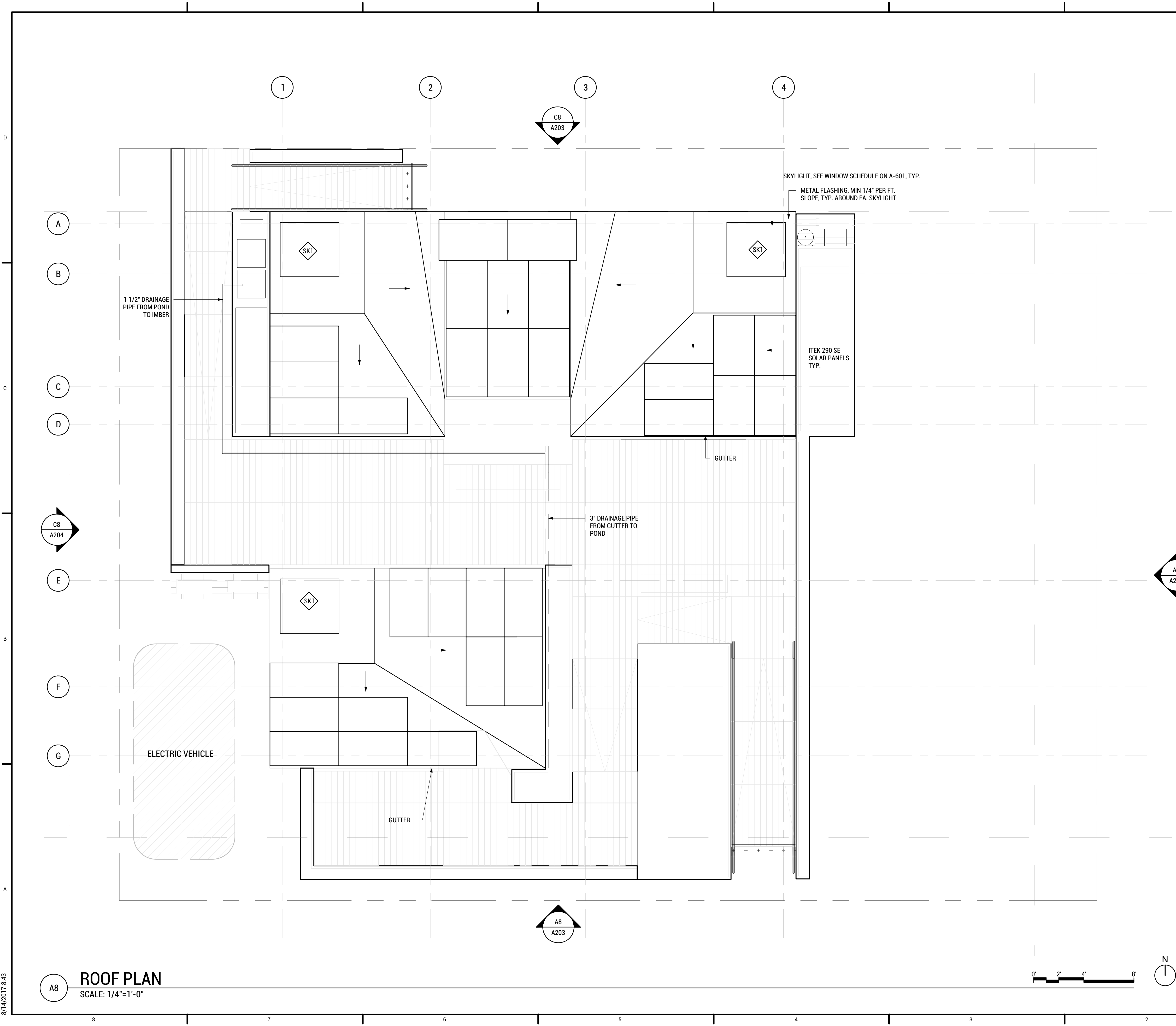
A-101



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



7/14/2017 1:43



SHEET NOTES

1. FOR THE DURATION OF THE PROJECT BEING LOCATED IN DENVER, CO THE RAINWATER WILL BE COLLECTED, BUT NOT REUSED, AS APPROVED BY \_\_\_\_\_ ON \_\_\_\_/\_\_\_\_/\_\_\_\_.
2. AT THE FINAL PROJECT LOCATION FOLLOWING THE COMPETITION THIS PROJECT WILL COLLECT RAINWATER FOR RE-USE IN IRRIGATION.
3. GREYWATER FROM THE INDOOR PLUMBING SHALL BE TREATED BY THE IMBER GREYWATER TREATMENT SYSTEM AND BE REUSED FOR IRRIGATION.



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LOT NUMBER: LOT #107

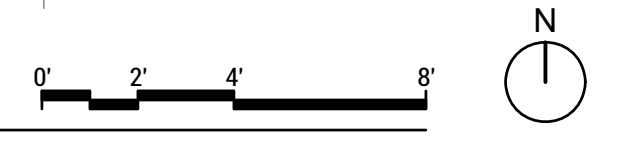
SHEET TITLE:

ROOF PLAN

DRAWN BY: TG CHECKED BY: DG

A-103

8/14/2017 8:43  
 A8  
**ROOF PLAN**  
 SCALE: 1/4"=1'-0"







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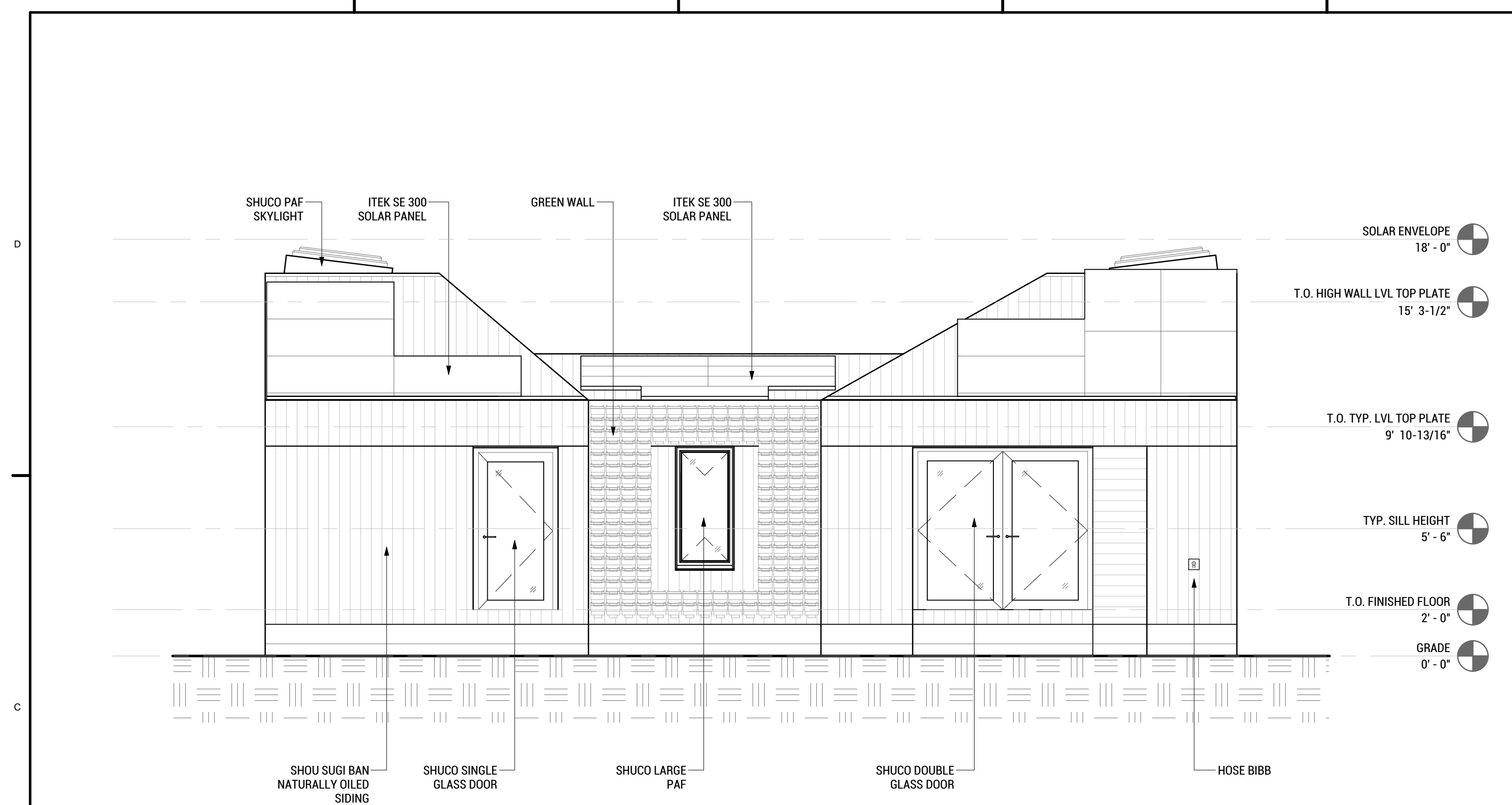
LOT NUMBER: LOT #107

SHEET TITLE:

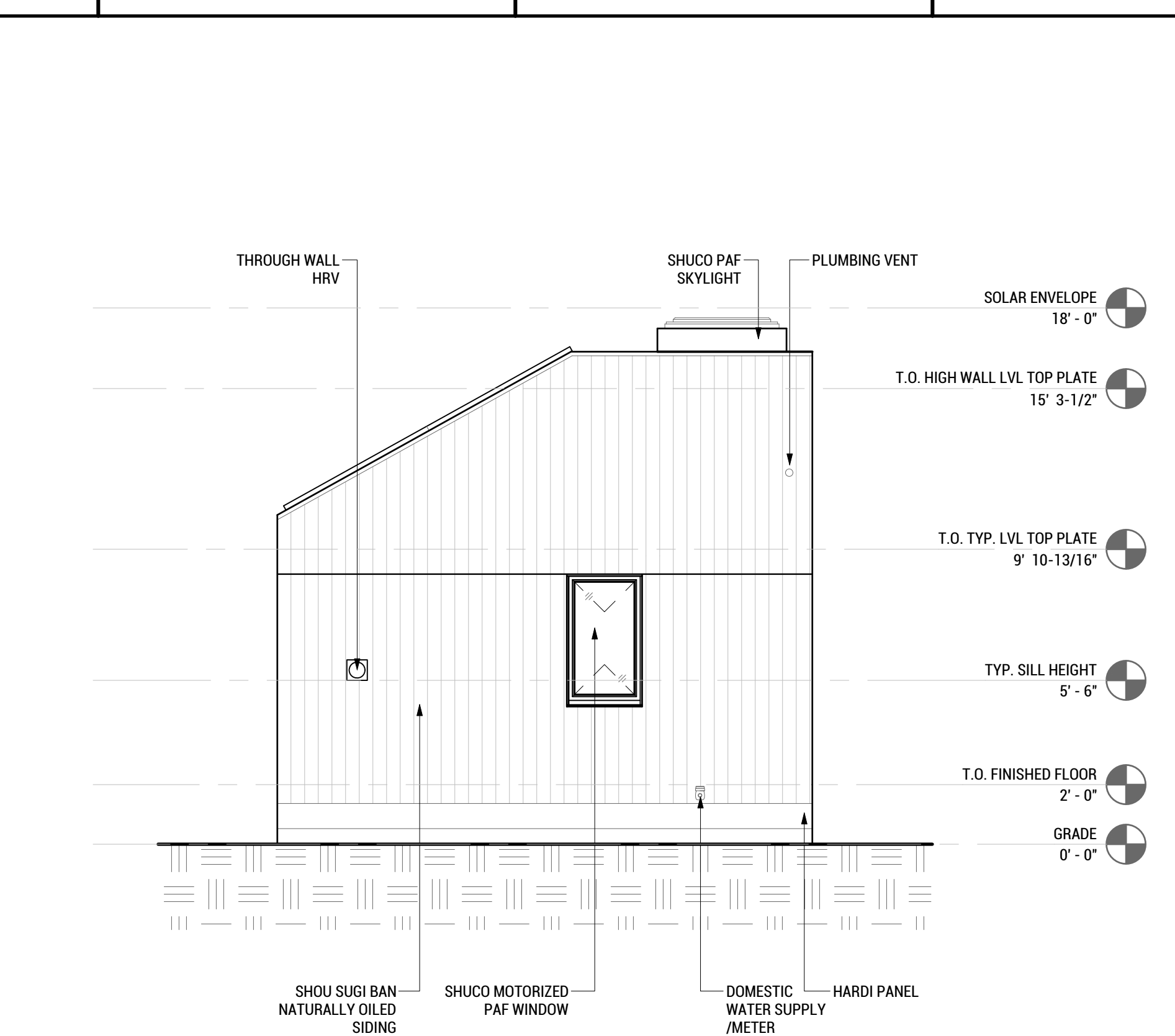
# CLUBHOUSE ELEVATIONS

DRAWN BY: SA CHECKED BY: TG

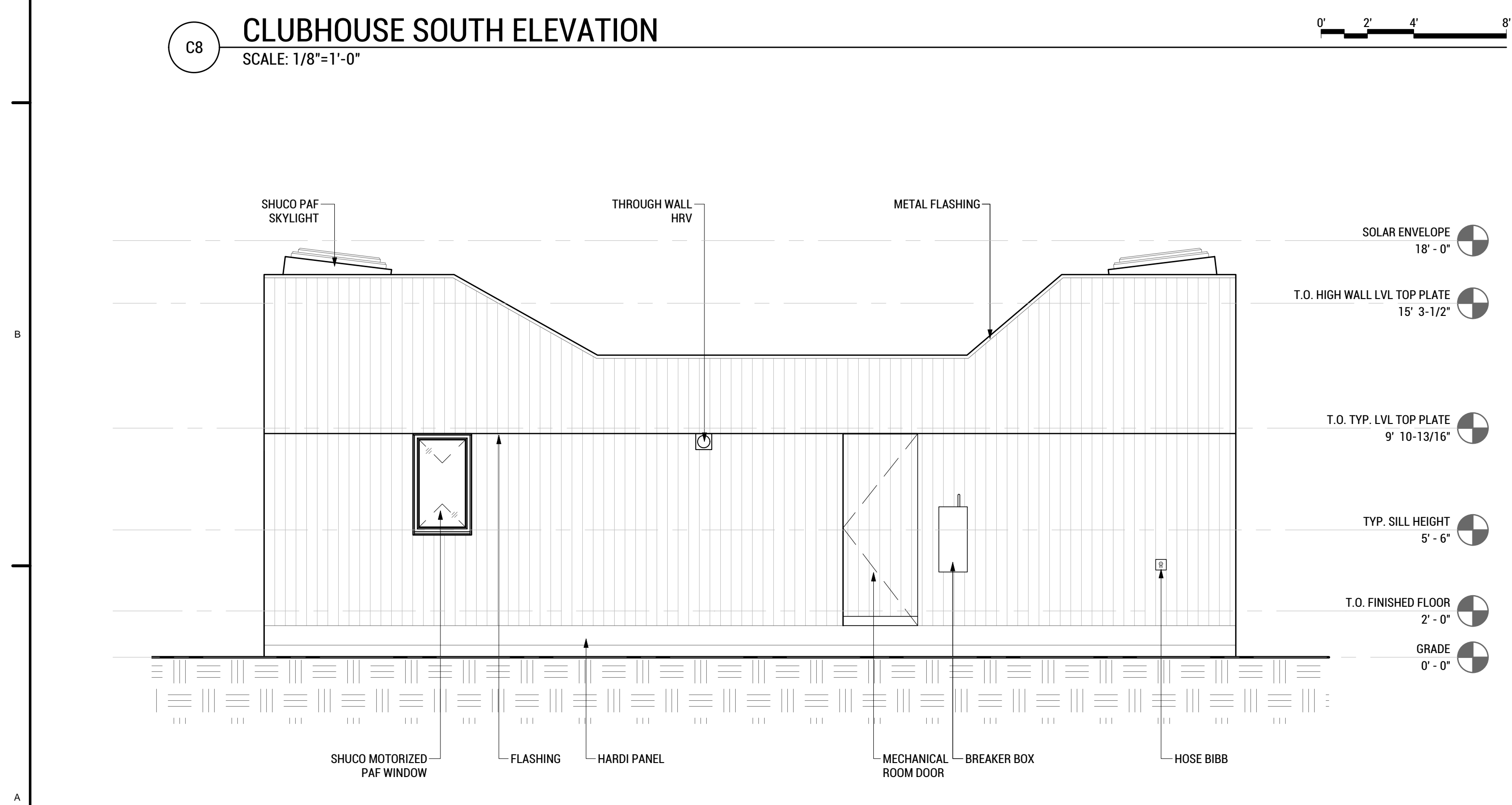
# A-201



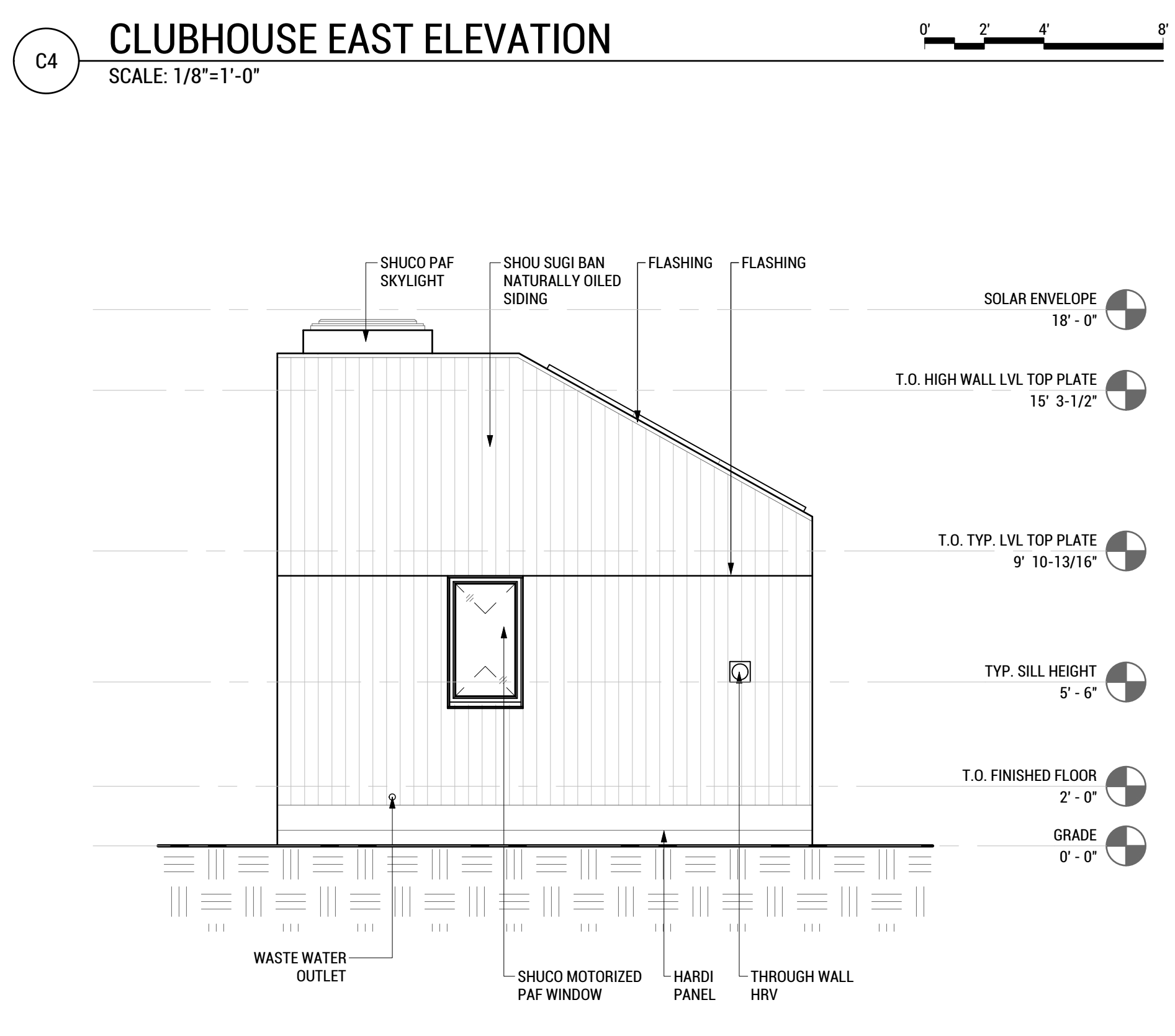
**C8 CLUBHOUSE SOUTH ELEVATION**  
SCALE: 1/8"=1'-0"



**C4 CLUBHOUSE EAST ELEVATION**  
SCALE: 1/8"=1'-0"

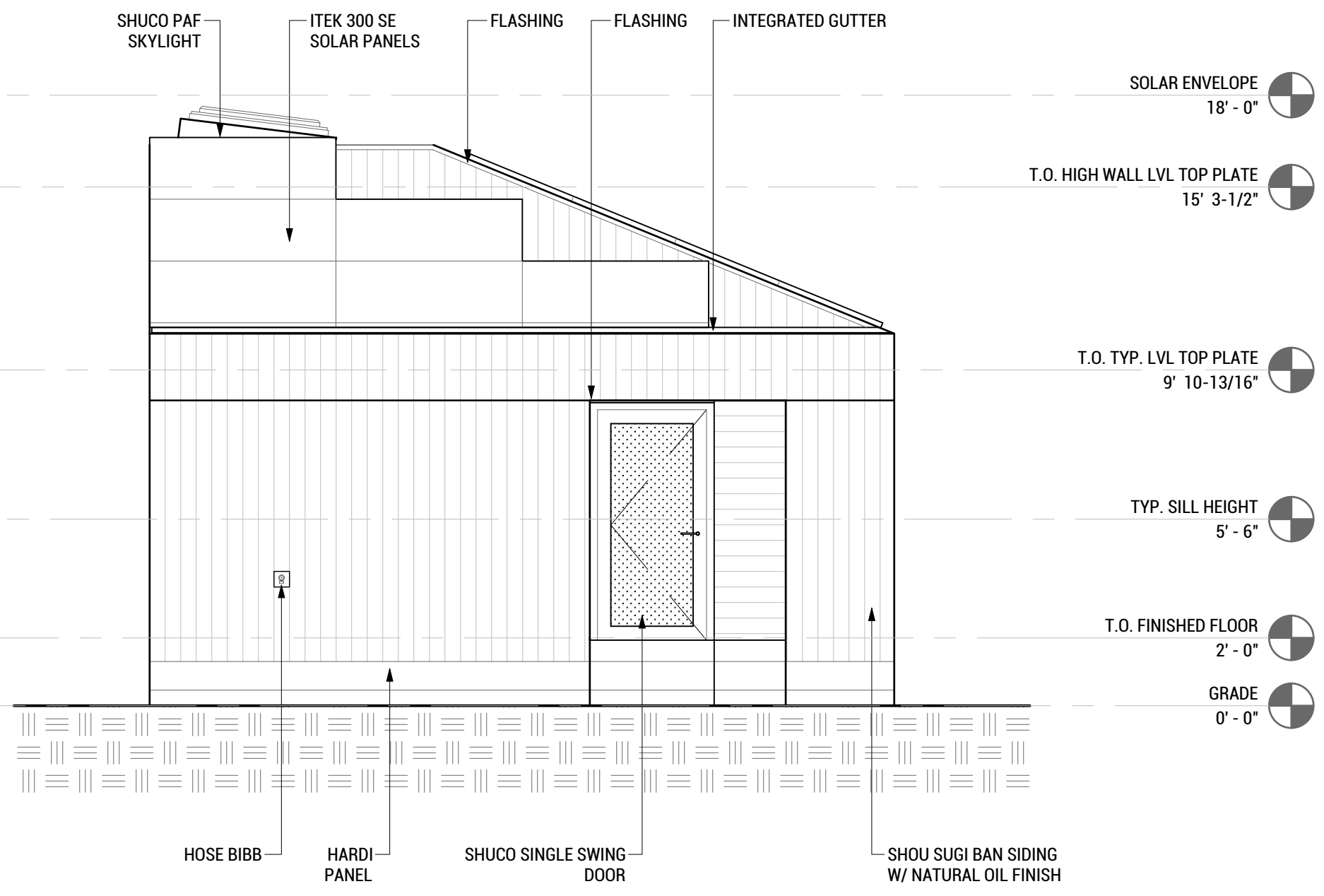


**A8 CLUBHOUSE NORTH ELEVATION**  
SCALE: 1/8"=1'-0"

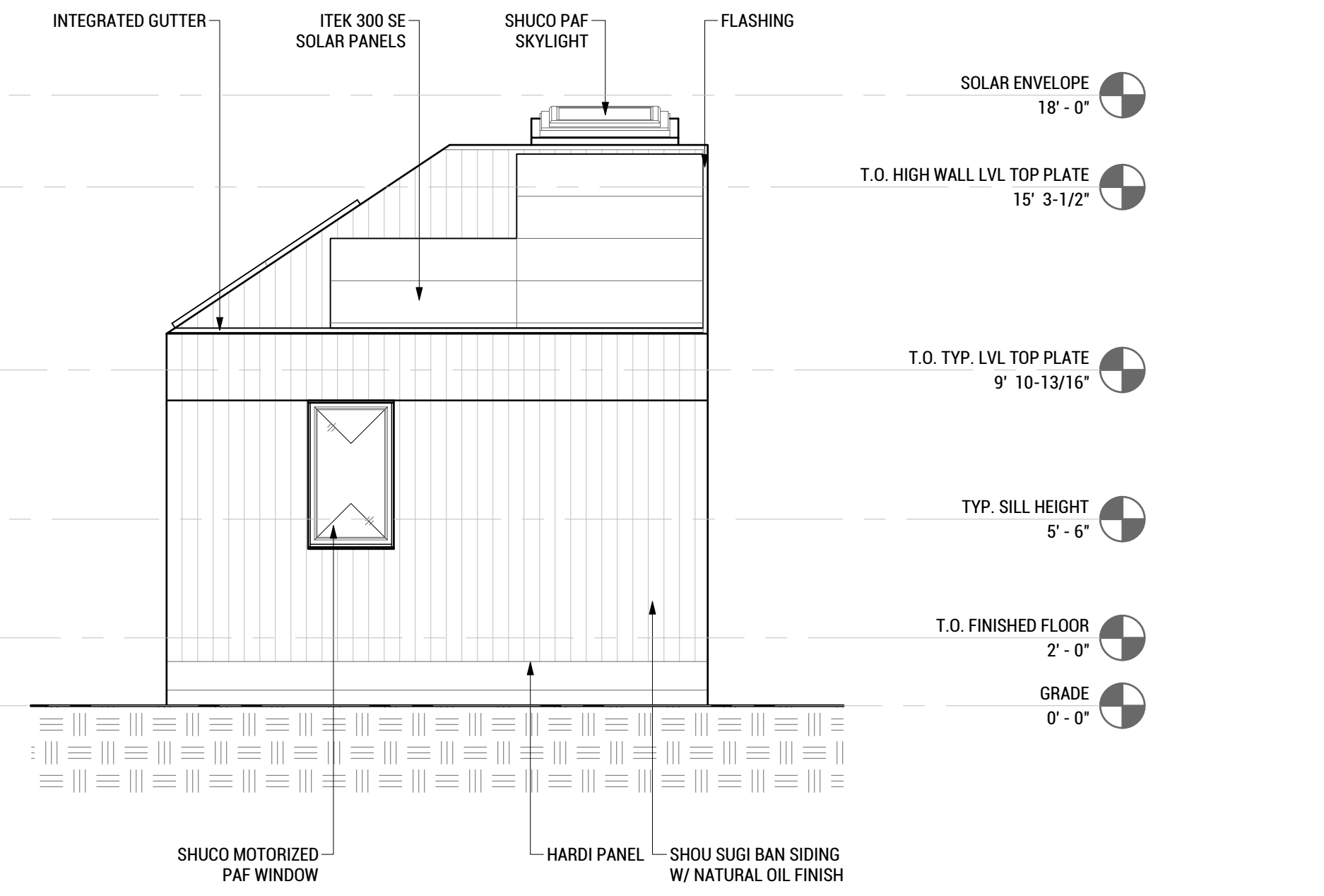


**A4 CLUBHOUSE WEST ELEVATION**  
SCALE: 1/8"=1'-0"

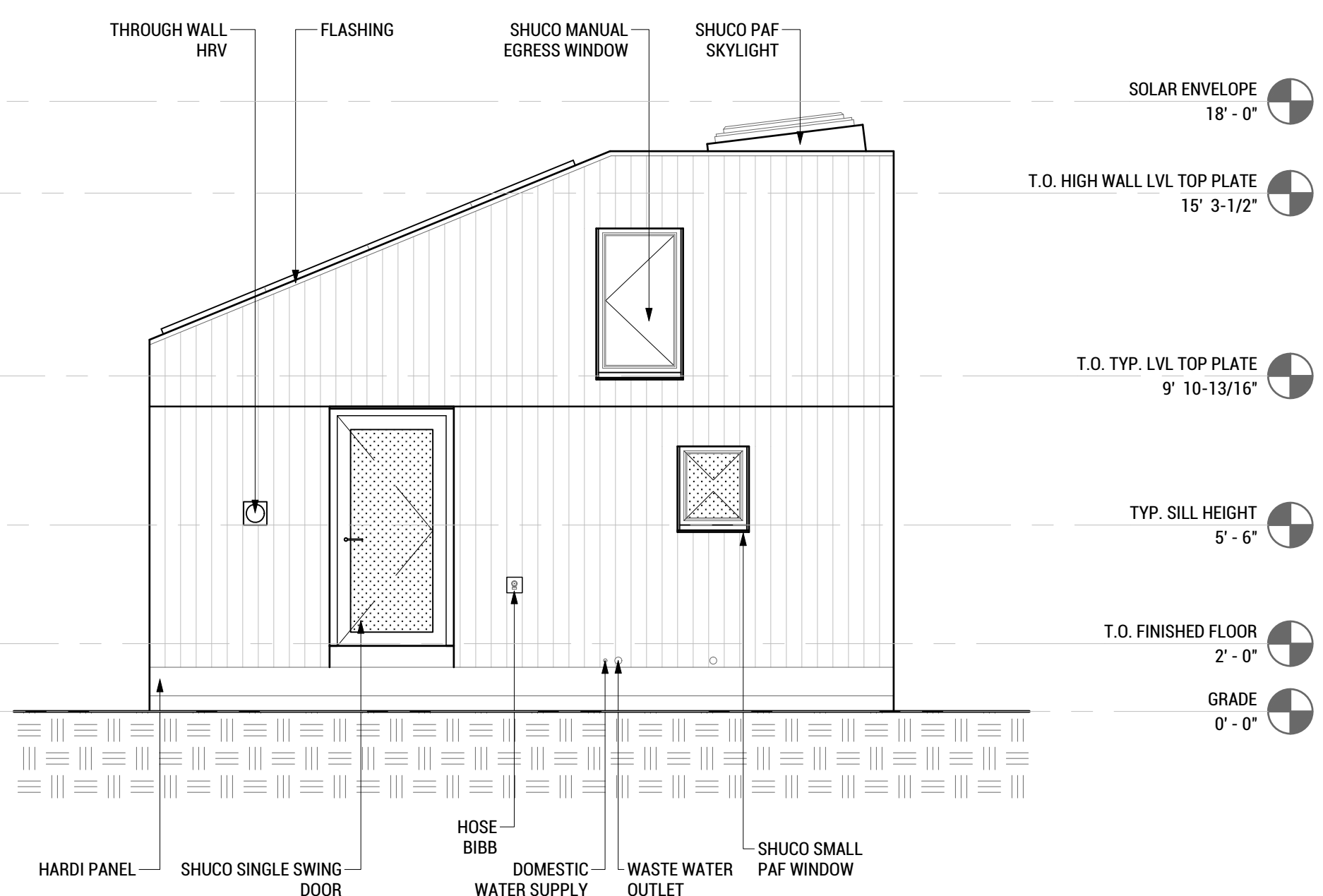
8/10/2017 10:42



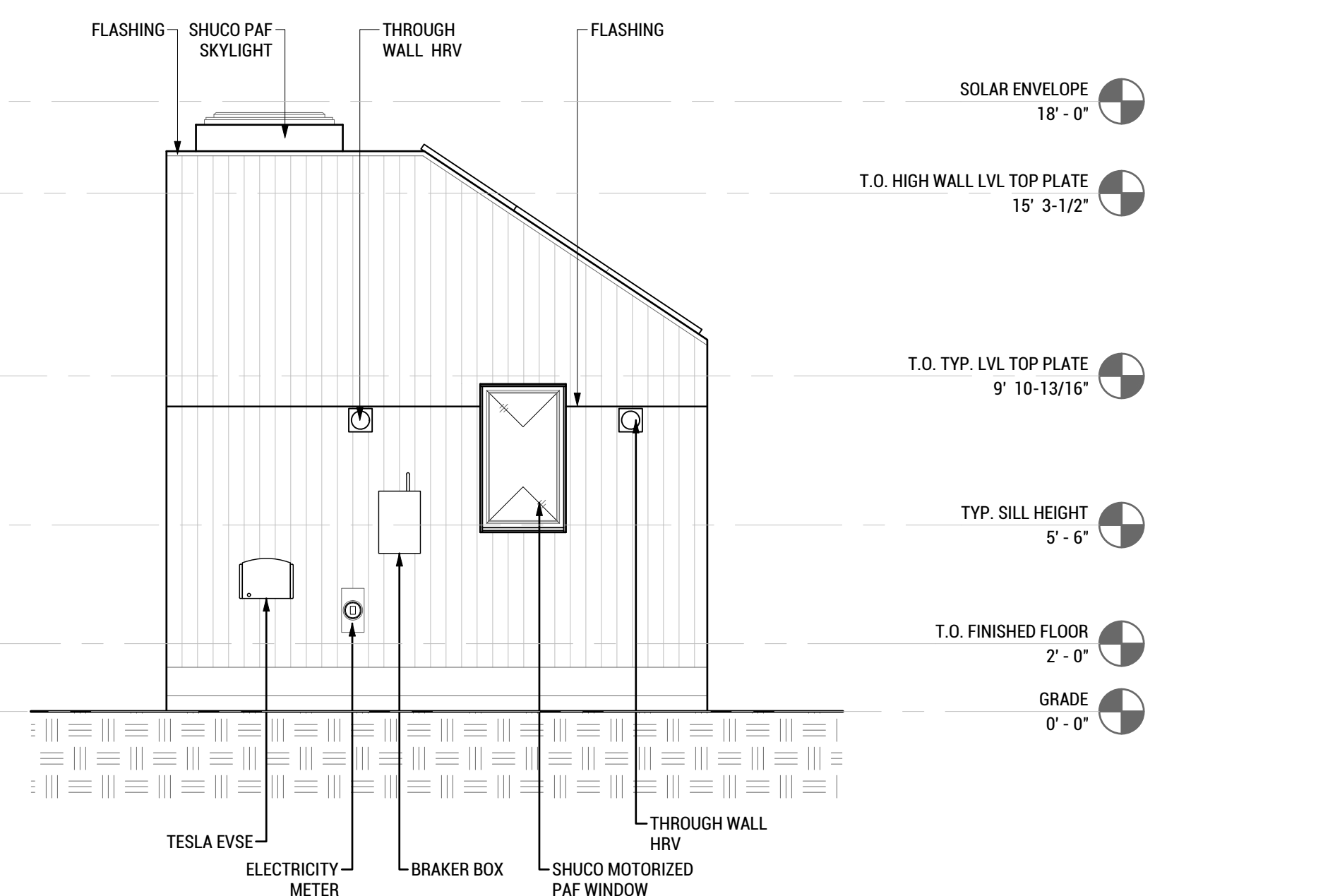
**C8 TINYHOUSE SOUTH ELEVATION**  
SCALE: 1/8"=1'-0"



**C3 TINYHOUSE EAST ELEVATION**  
SCALE: 1/8"=1'-0"



**A8 TINYHOUSE NORTH ELEVATION**  
SCALE: 1/8"=1'-0"



**A3 TINYHOUSE WEST ELEVATION**  
SCALE: 1/8"=1'-0"



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	04/24/2017	100% CD SET
	02/17/2017	FINAL CHECKSET
	11/15/2016	80% DD SET

LOT NUMBER: LOT #107

SHEET TITLE:

TINYHOUSE ELEVATIONS

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A-202



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	04/24/2017	100% CD SET
	02/17/2017	FINAL CHECKSET
	11/15/2016	80% DD SET

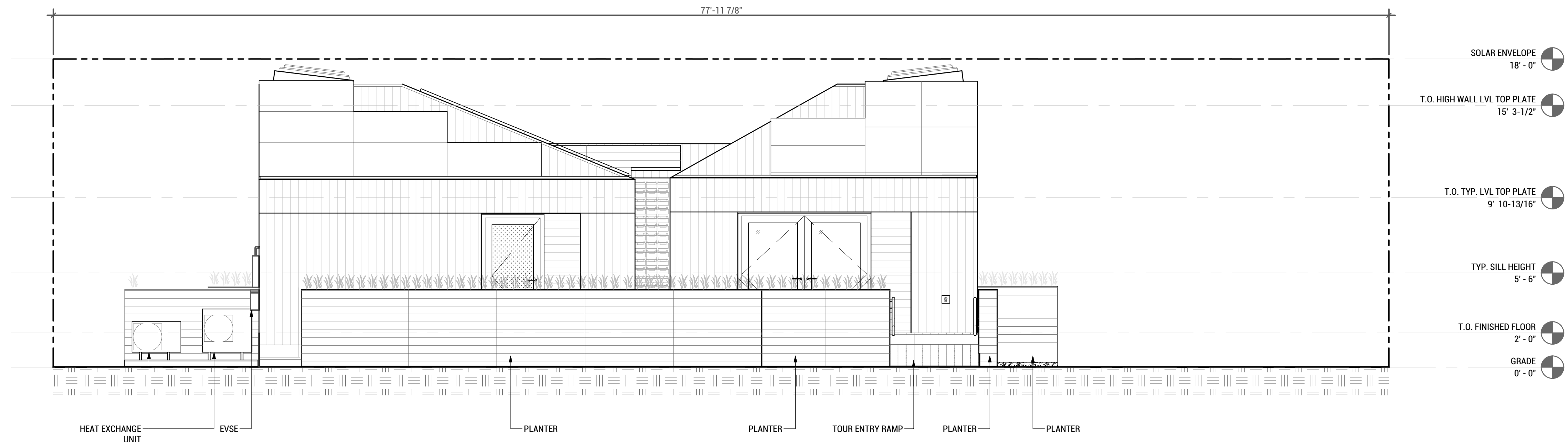
LOT NUMBER: LOT #107

SHEET TITLE:

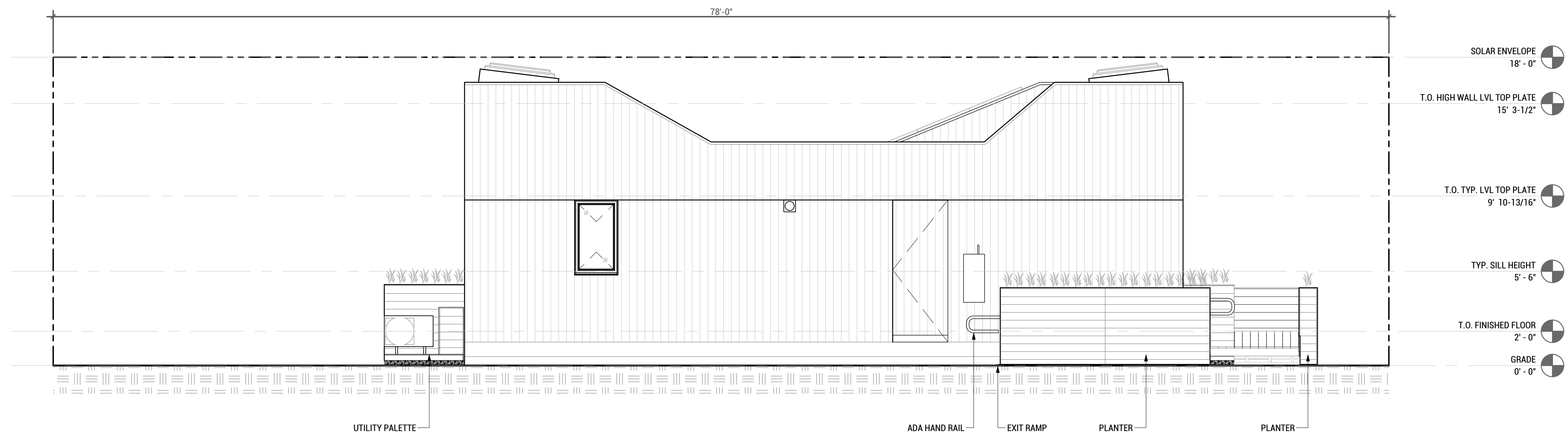
SITE ELEVATIONS SOUTH/NORTH

DRAWN BY: SA CHECKED BY: TG

A-203



C8 SITE SOUTH ELEVATION  
 SCALE: 1/8"=1'-0"



A8 SITE NORTH ELEVATION  
 SCALE: 1/8"=1'-0"





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	02/17/2017	FINAL CHECKSET
	11/15/2016	80% DD SET

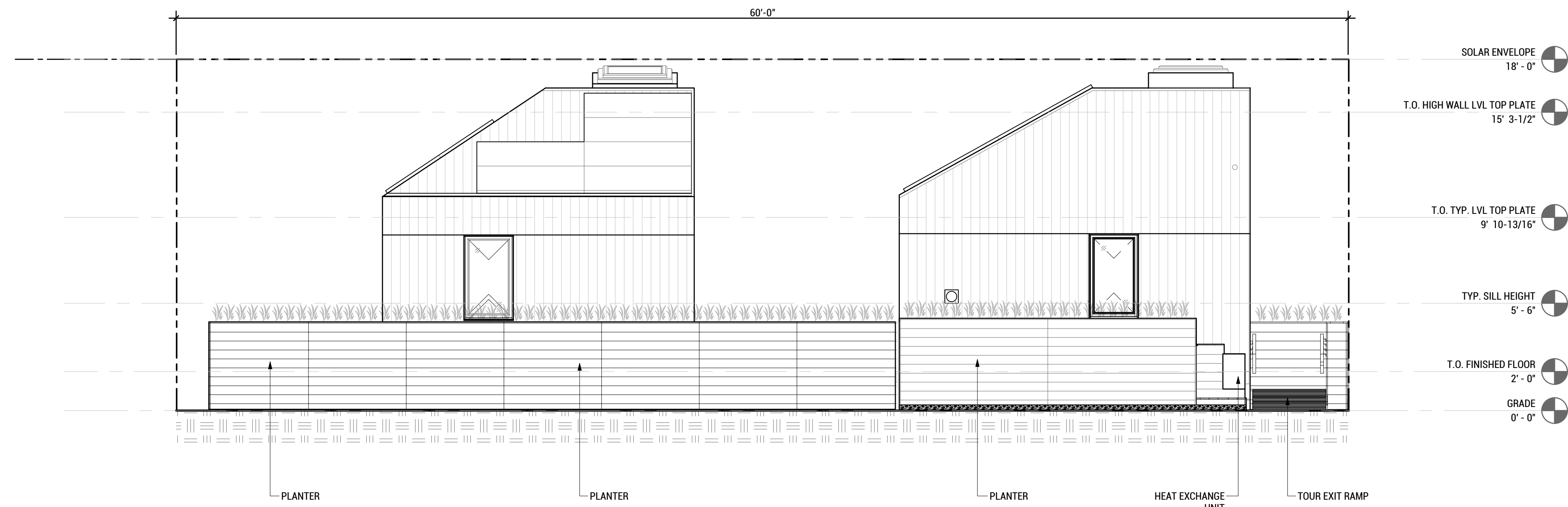
LOT NUMBER: LOT #107

SHEET TITLE:

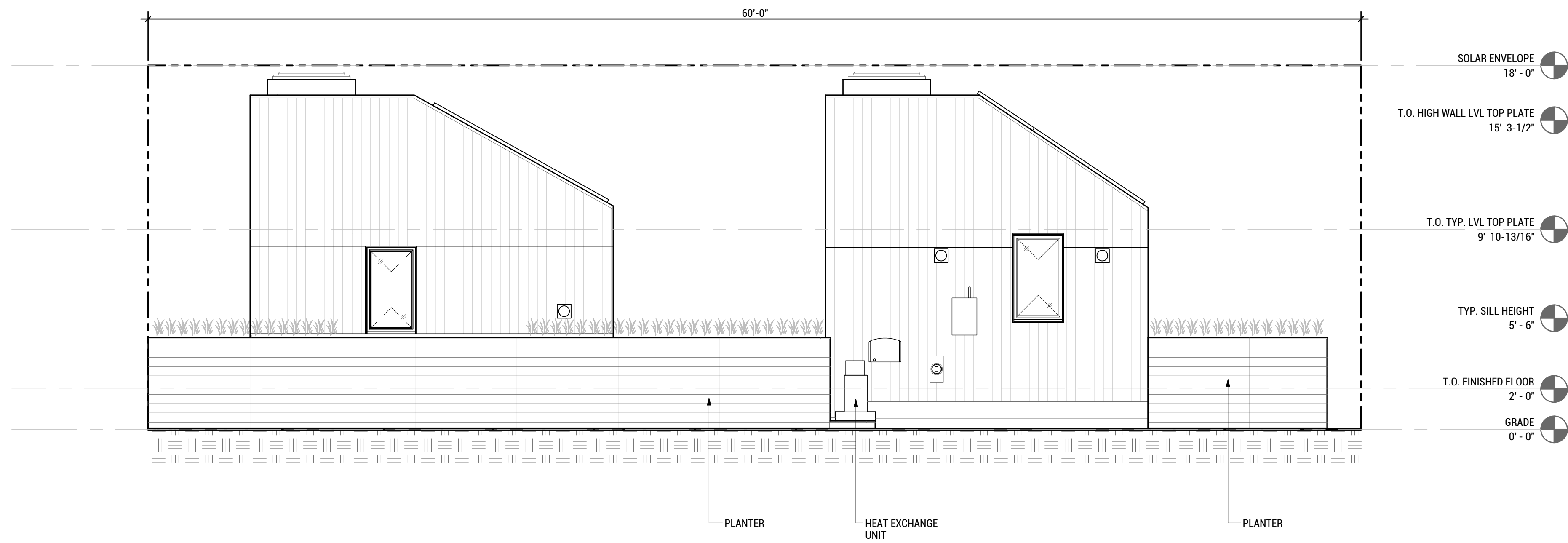
SITE ELEVATIONS EAST/WEST

DRAWN BY: SA CHECKED BY: TG

A-204



C8 SITE EAST ELEVATION  
SCALE: 1/8"=1'-0"



8A SITE WEST ELEVATION  
SCALE: 1/8"=1'-0"

8/10/2017 11:09



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	02/17/2017	FINAL CHECKSET
	11/15/2016	80% DD SET

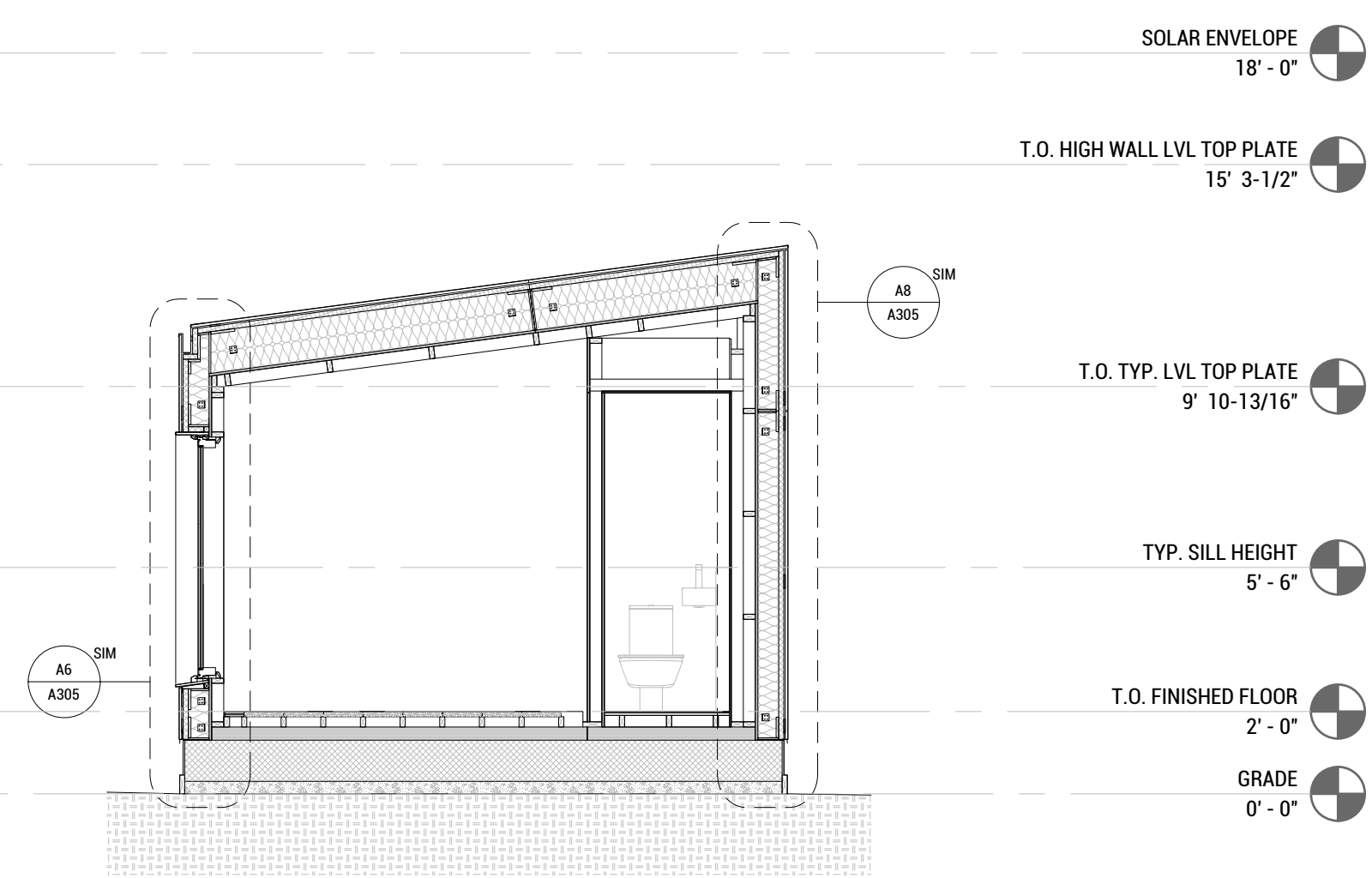
LOT NUMBER: LOT #107

SHEET TITLE:

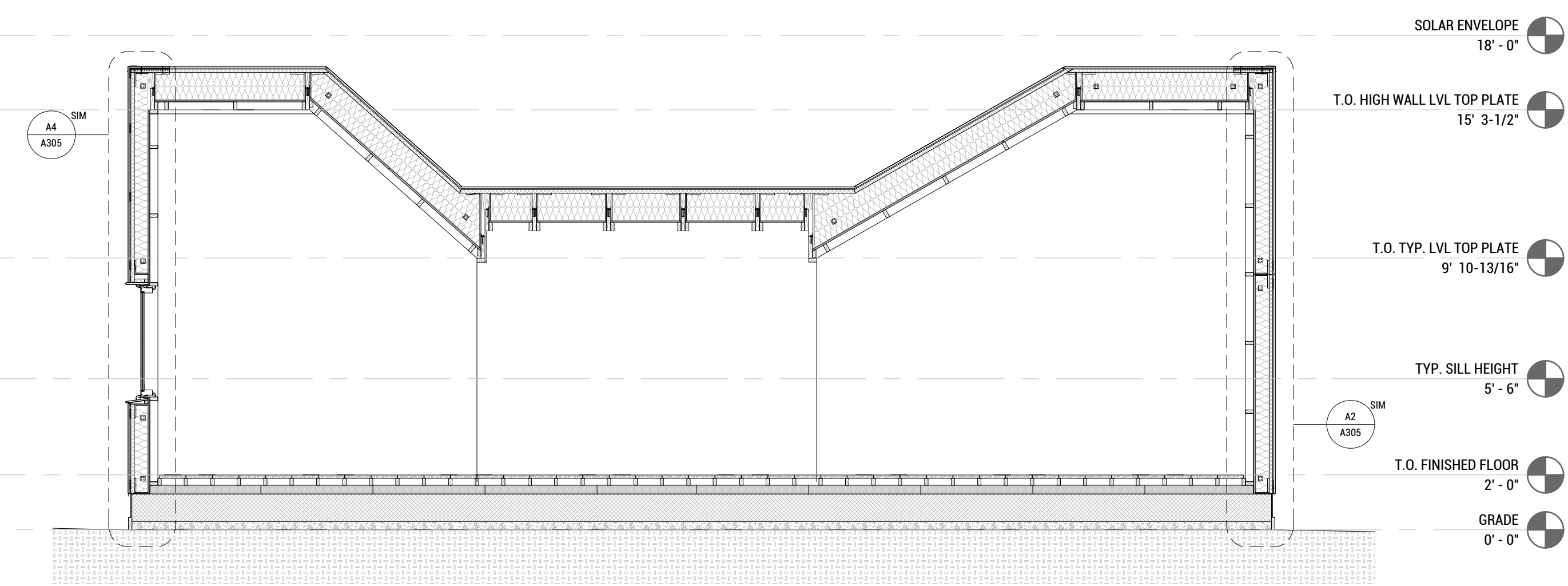
CLUBHOUSE BUILDING SECTIONS

DRAWN BY: SA CHECKED BY: DG

A-301



**A8 CLUBHOUSE SECTION B**  
 SCALE: 1/4"=1'-0"



**A4 CLUBHOUSE SECTION A**  
 SCALE: 1/4"=1'-0"



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	02/17/2017	FINAL CHECKSET
	11/15/2016	80% DD SET

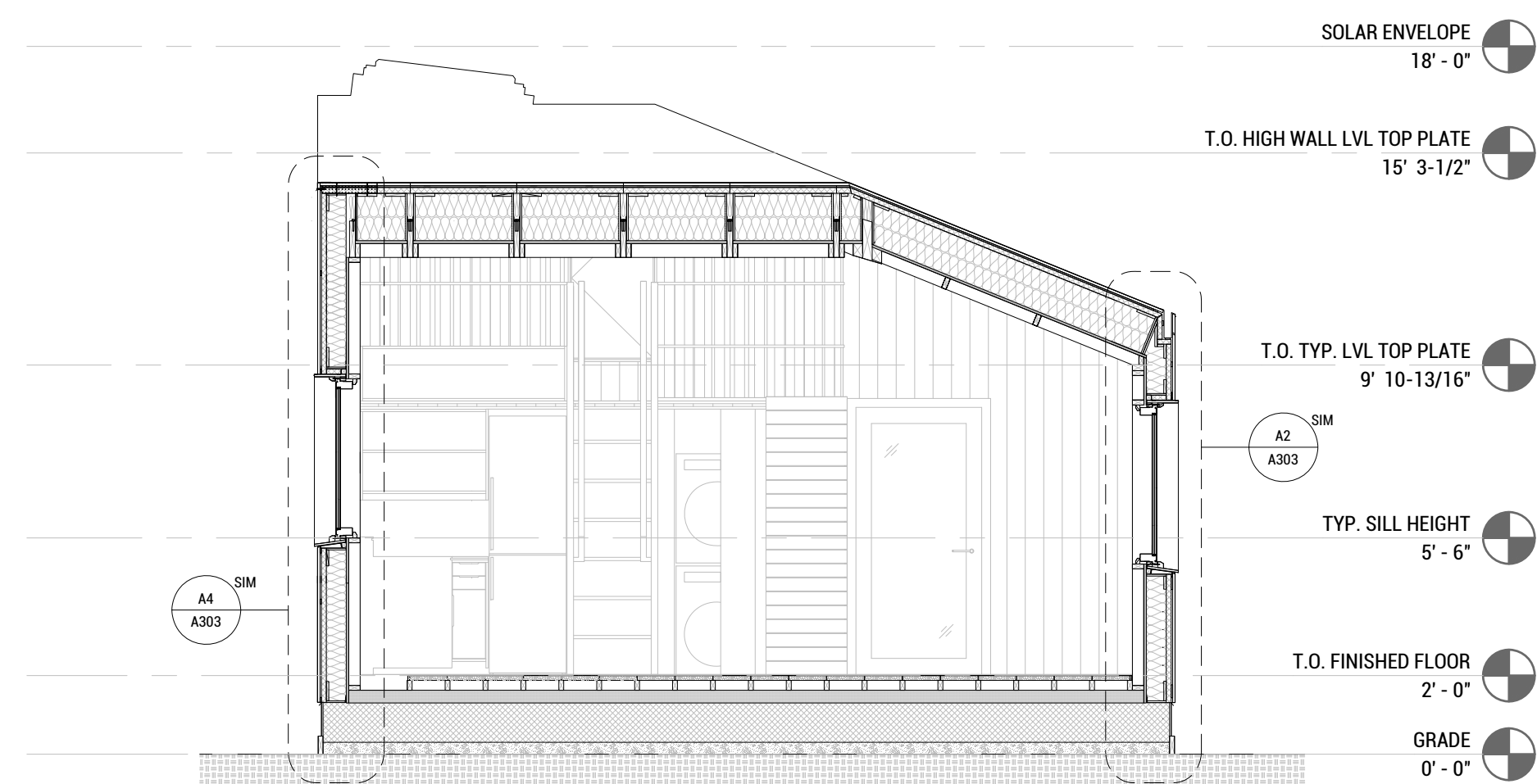
LOT NUMBER: LOT #107

SHEET TITLE:

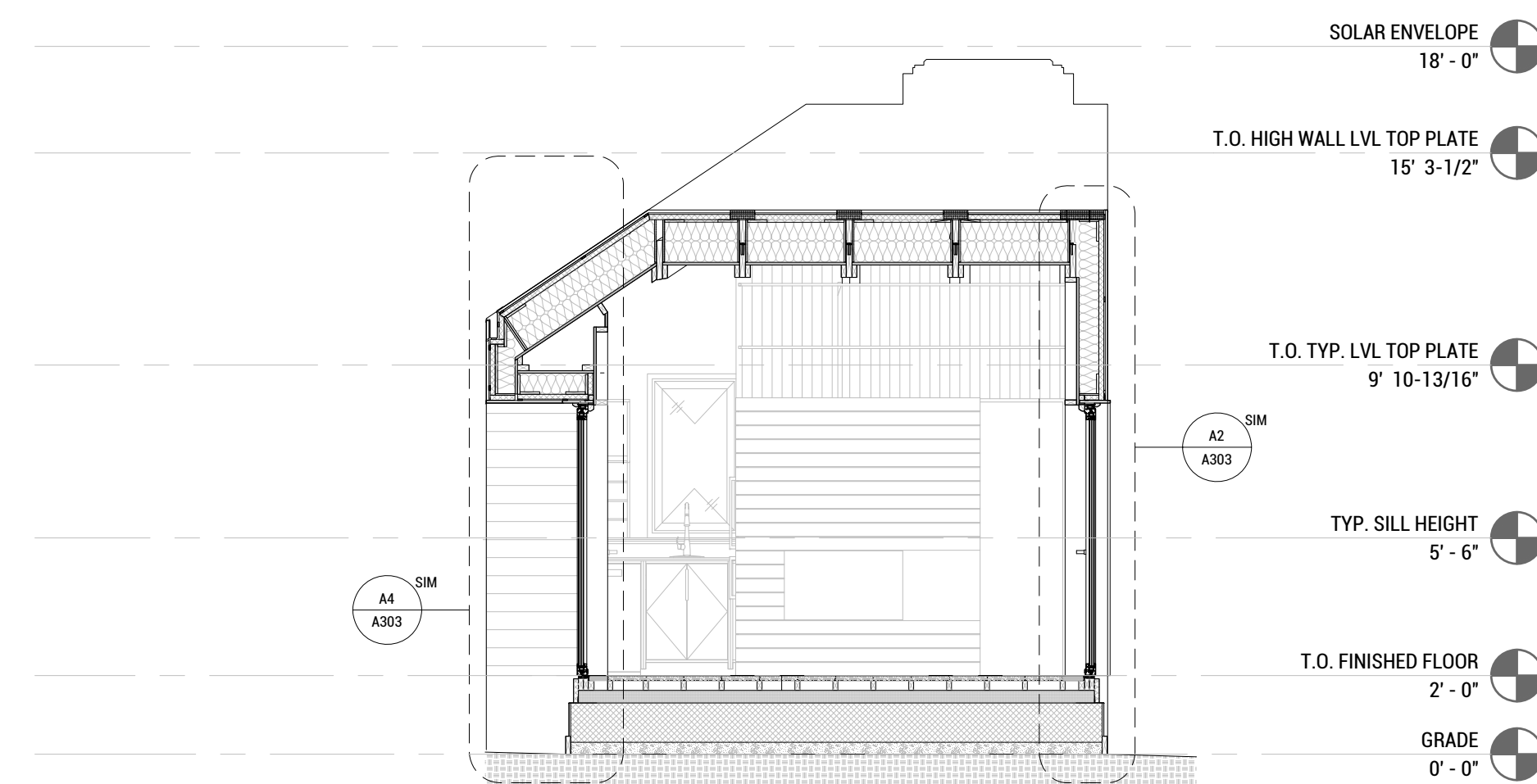
TINY HOUSE BUILDING SECTIONS

DRAWN BY: SA CHECKED BY: DG

A-302



**TINY HOUSE SECTION A**  
 SCALE: 1/2"=1'-0"



**TINY HOUSE SECTION B**  
 SCALE: 1/2"=1'-0"





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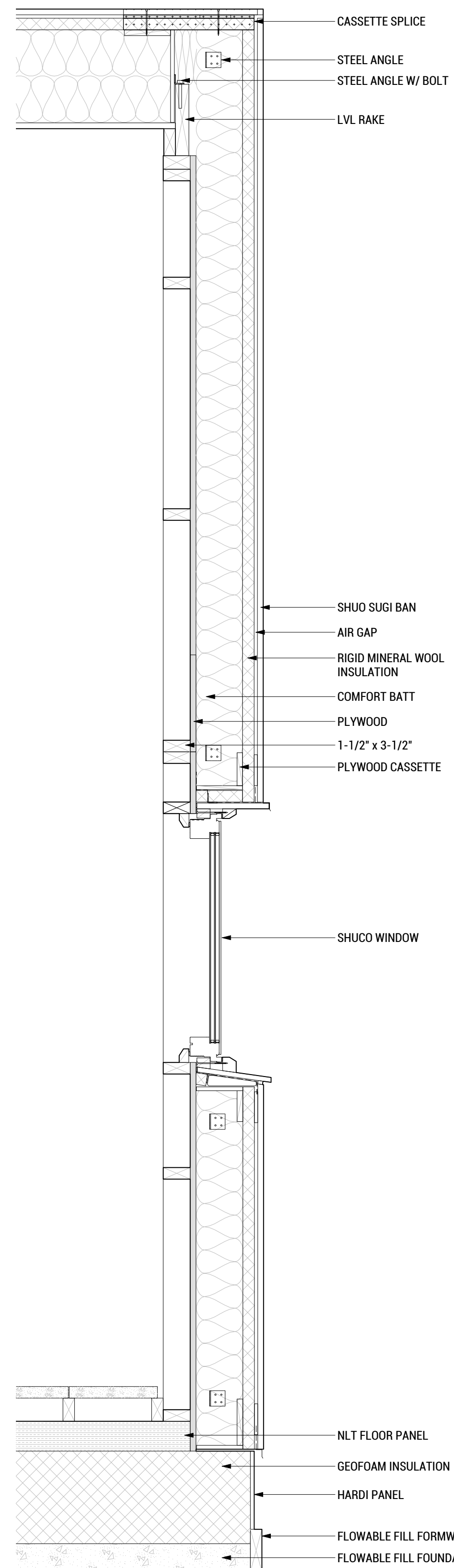
LOT NUMBER: LOT #107

SHEET TITLE:

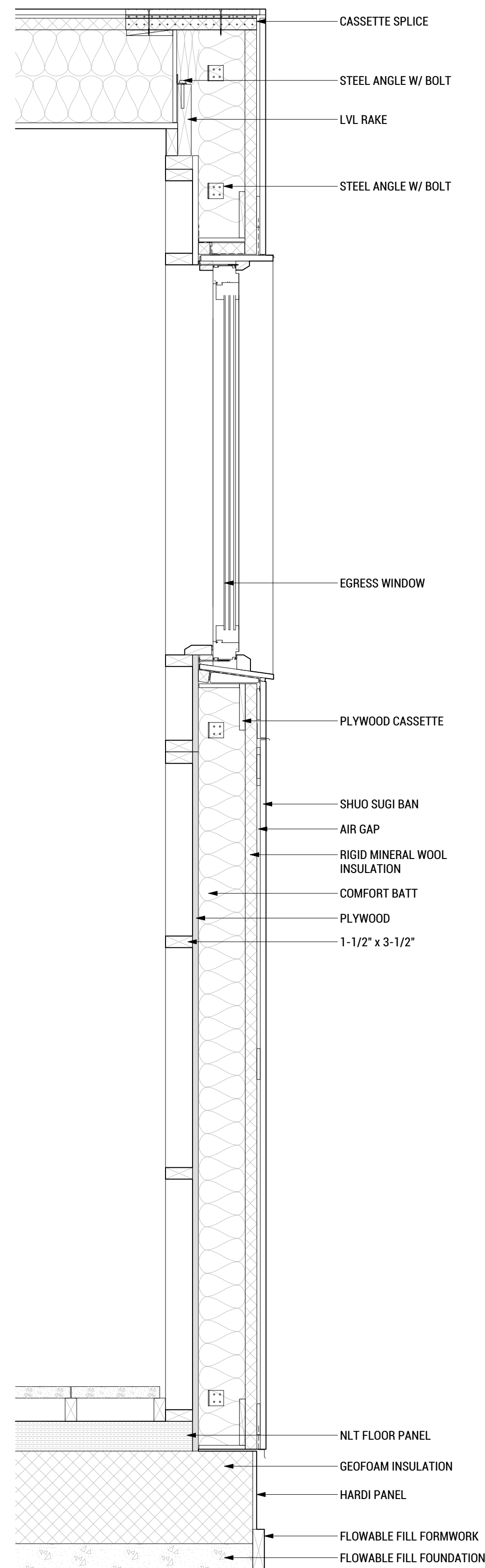
TINYHOME WALL SECTIONS

DRAWN BY: SA CHECKED BY: DG

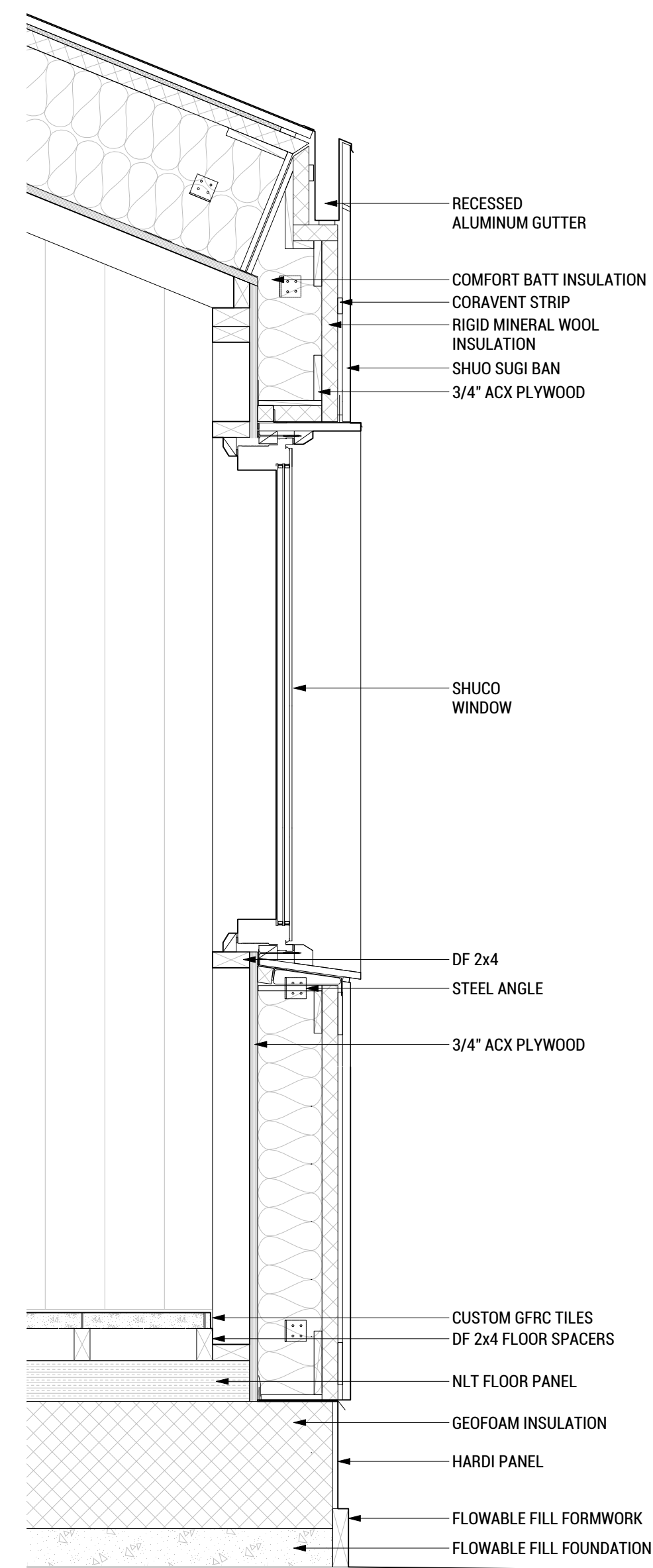
A-303



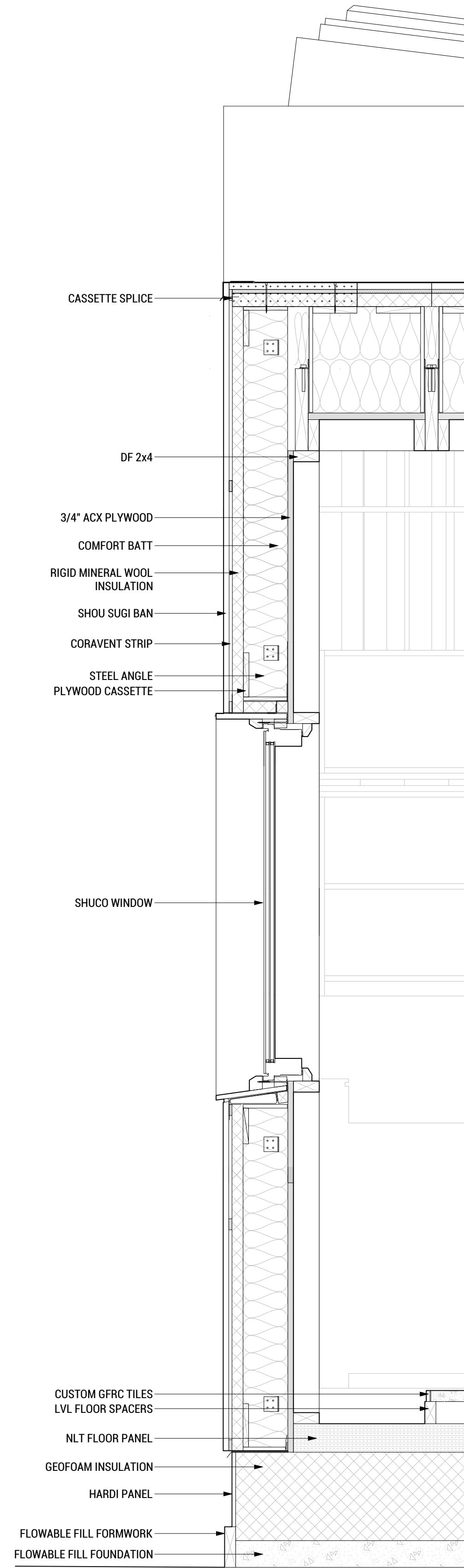
A8 WALL SECTION AT WINDOW  
 SCALE: 1"=1'-0"



A6 WALL SECTION AT WINDOW  
 SCALE: 1"=1'-0"



A4 WALL SECTION AT WINDOW  
 SCALE: 1"=1'-0"



A2 WALL SECTION AT WINDOW  
 SCALE: 1"=1'-0"

8/10/2017 12:25



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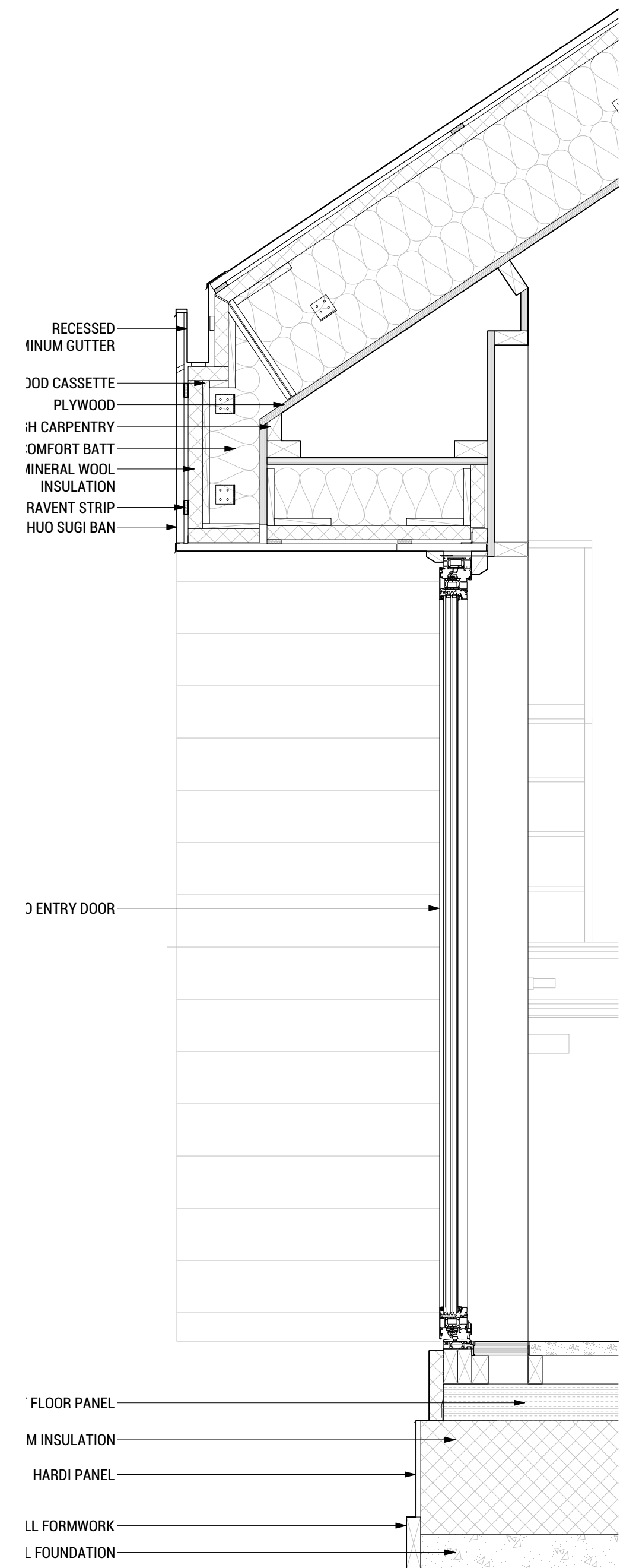
LOT NUMBER: LOT #107

SHEET TITLE:

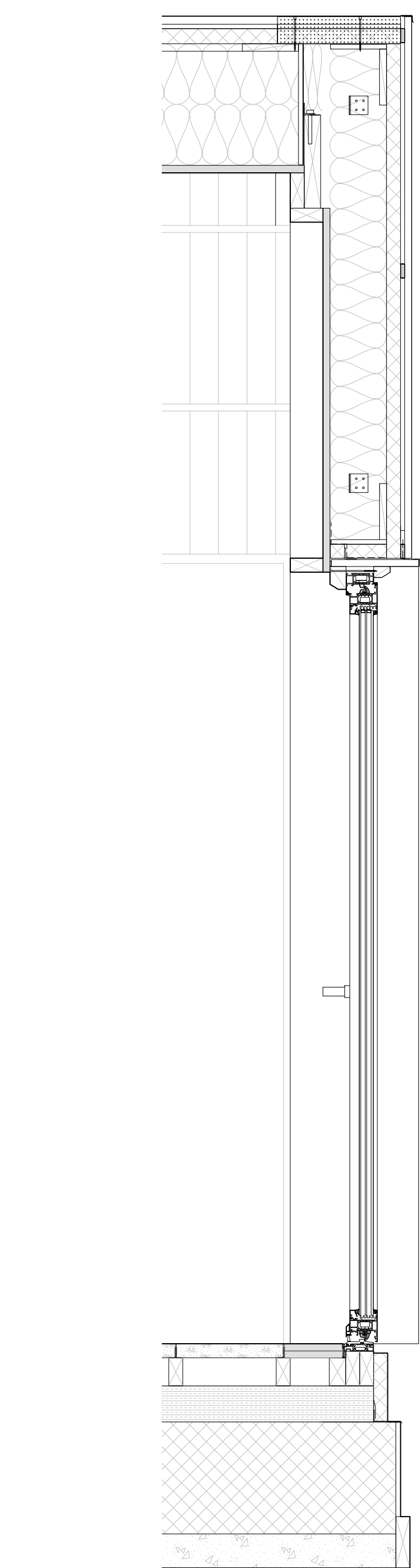
TINYHOME WALL SECTIONS

DRAWN BY: SA CHECKED BY: DG

A-304



A4 WALL SECTION AT WINDOW SCALE: 1"=1'-0"



A2 WALL SECTION AT WINDOW SCALE: 1"=1'-0"

8/9/2017 10:23

A8

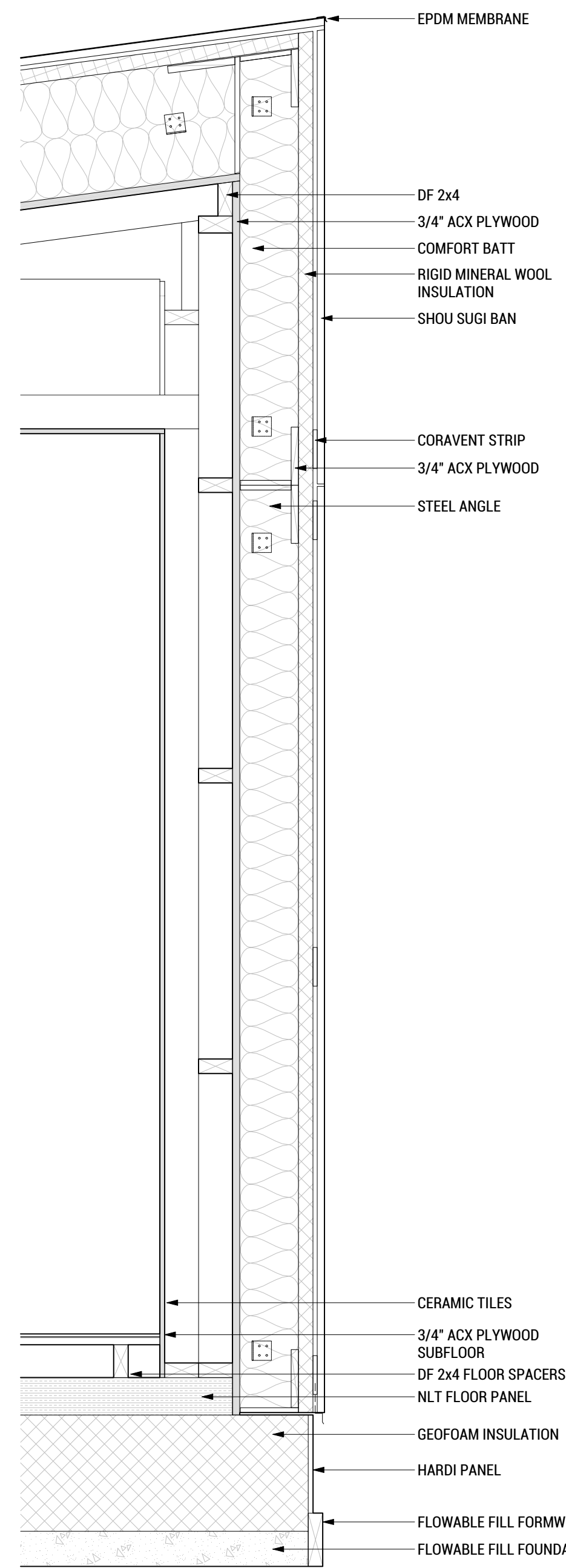


D

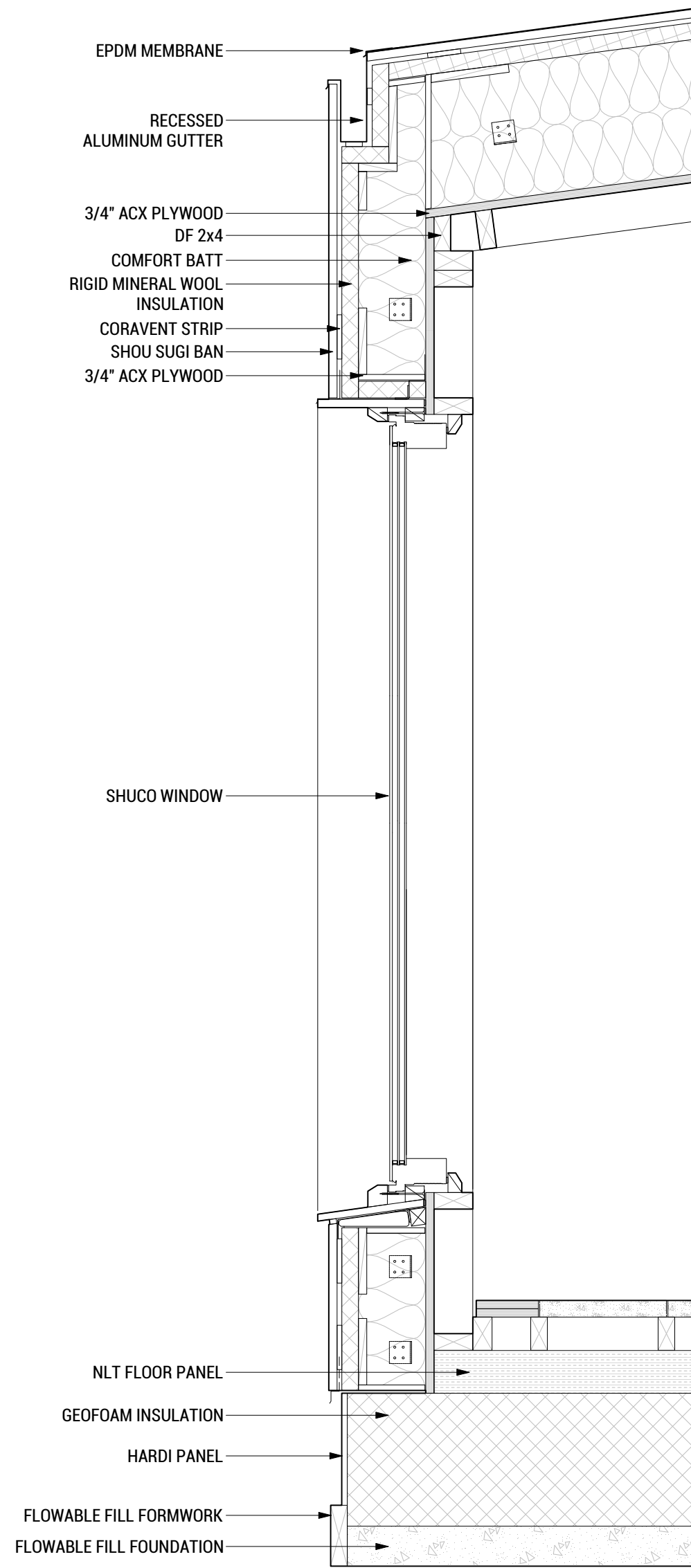
C

B

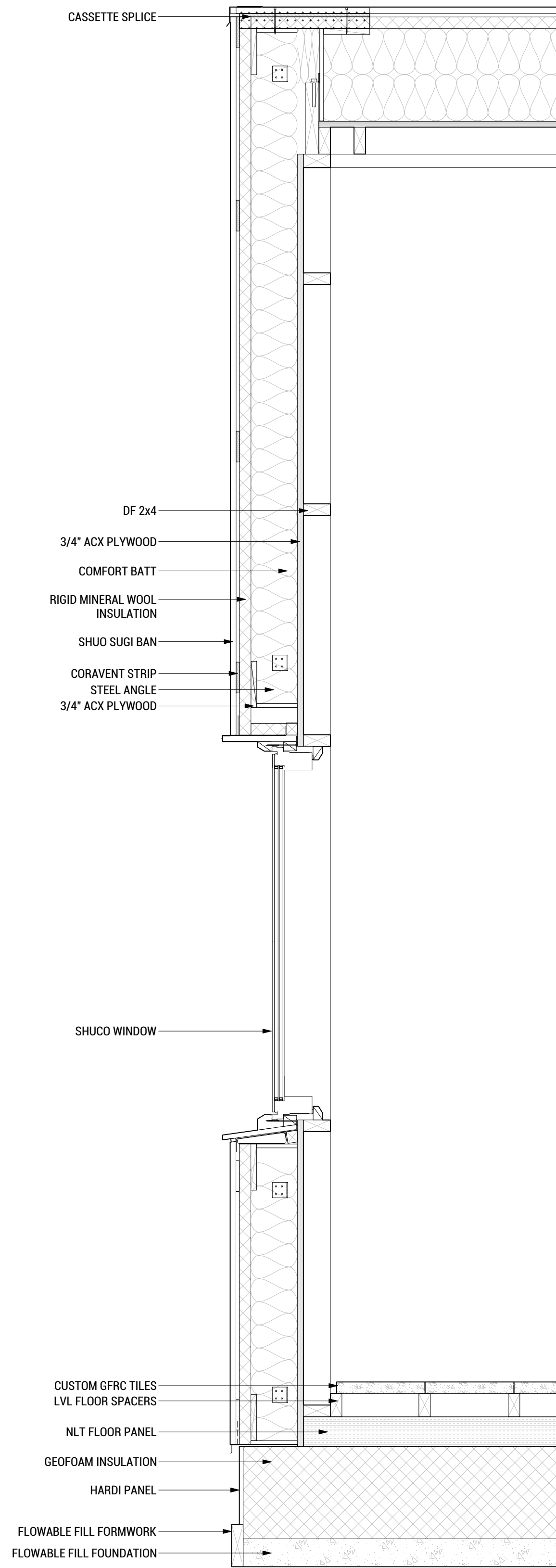
A



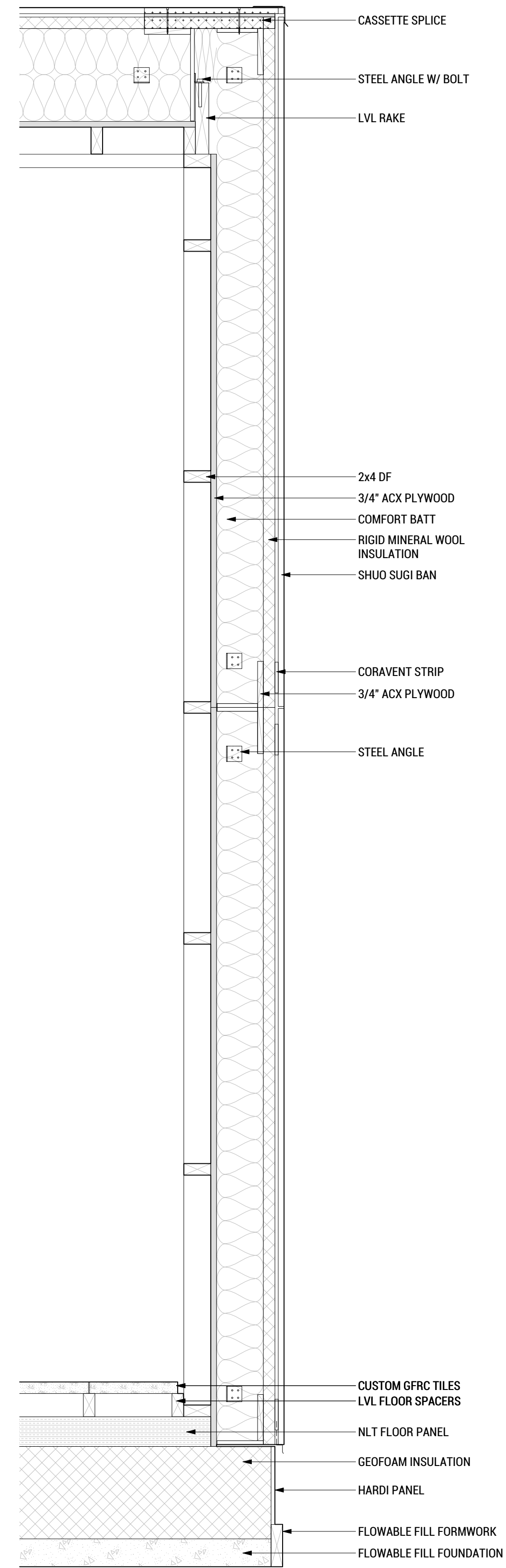
**A8 WALL SECTION AT WINDOW**  
SCALE: 1"=1'-0"



**A6 WALL SECTION AT WINDOW**  
SCALE: 1"=1'-0"



**A4 WALL SECTION AT WINDOW**  
SCALE: 1"=1'-0"



**A2 WALL SECTION AT WINDOW**  
SCALE: 1"=1'-0"



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	02/17/2017	FINAL CHECKSET
	11/15/2016	80% DD SET

LOT NUMBER: LOT #107

SHEET TITLE:

**COMMUNITY BUILDING WALL SECTIONS**

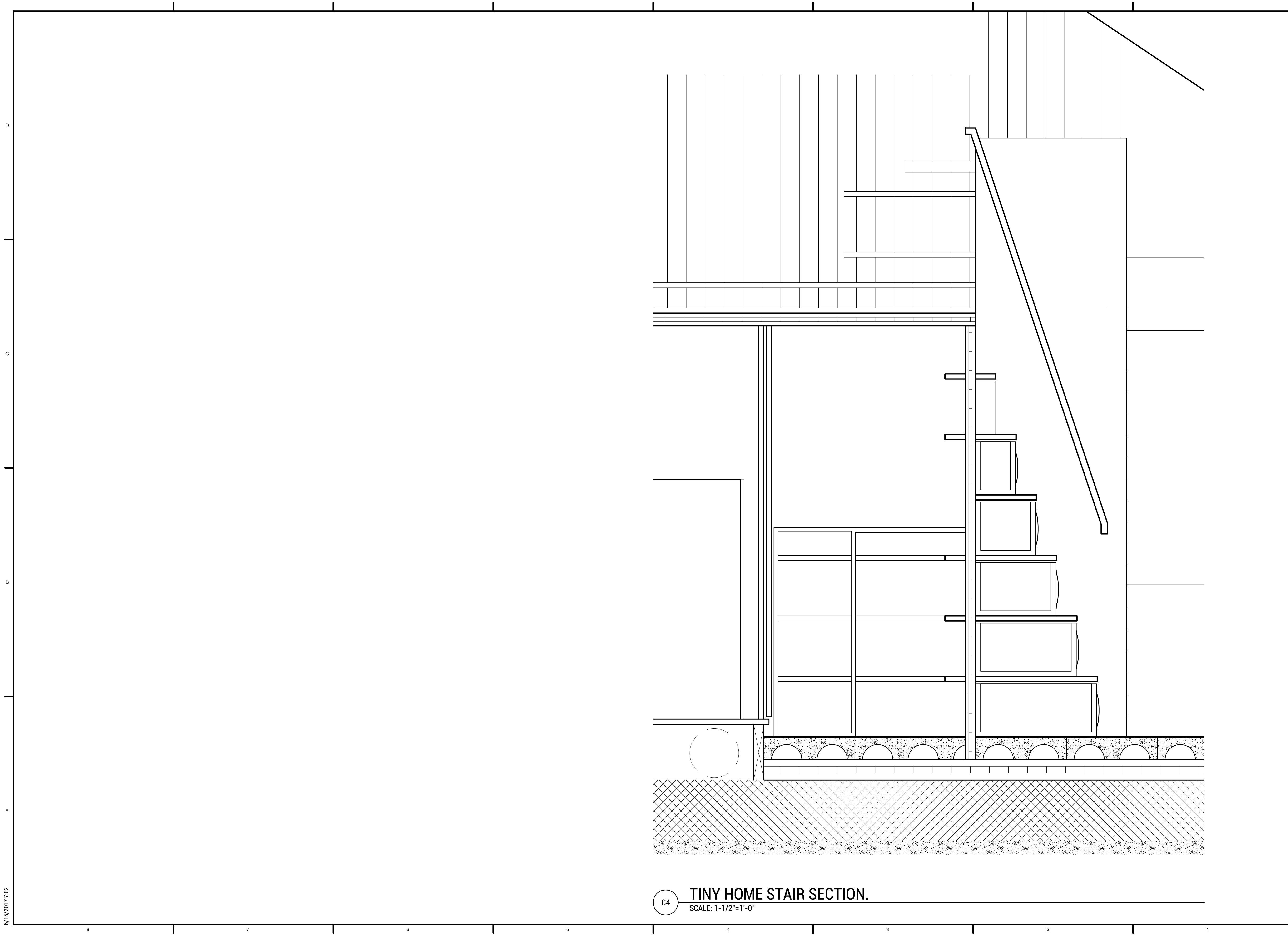
DRAWN BY: SA CHECKED BY: DG

**A-305**

8/10/2017 12:25

8 7 6 5 4 3 2 1





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	02/17/2017	FINAL CHECKSET
	11/15/2016	80% DD SET

LOT NUMBER: LOT #107

SHEET TITLE:

**TINY HOME  
 STAIR SECTION**

DRAWN BY: MT CHECKED BY: DG

**A-306**

**TINY HOME STAIR SECTION.**  
 SCALE: 1-1/2"=1'-0"

6/15/2017.02

8 7 6 5 4 3 2 1



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	11/15/2016	80% DD SET

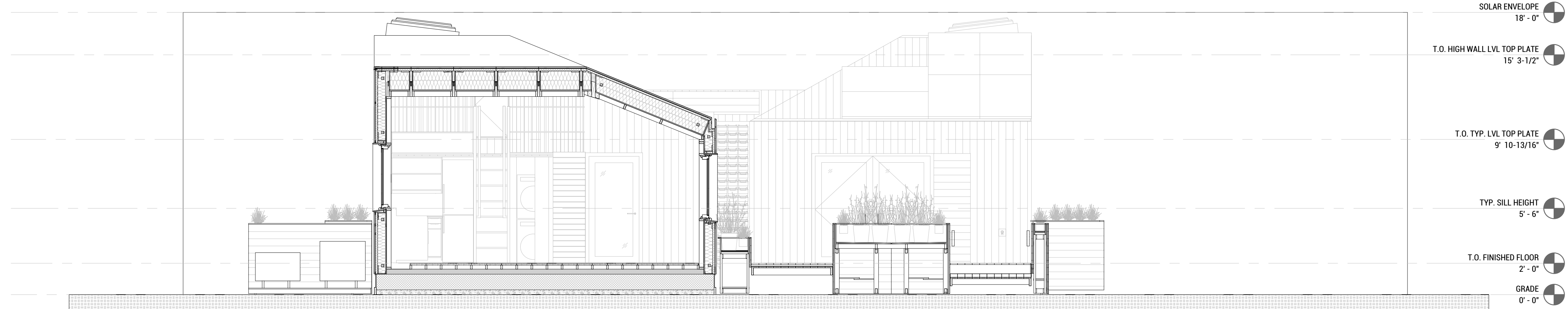
LOT NUMBER: LOT #107

SHEET TITLE:

SITE SECTIONS

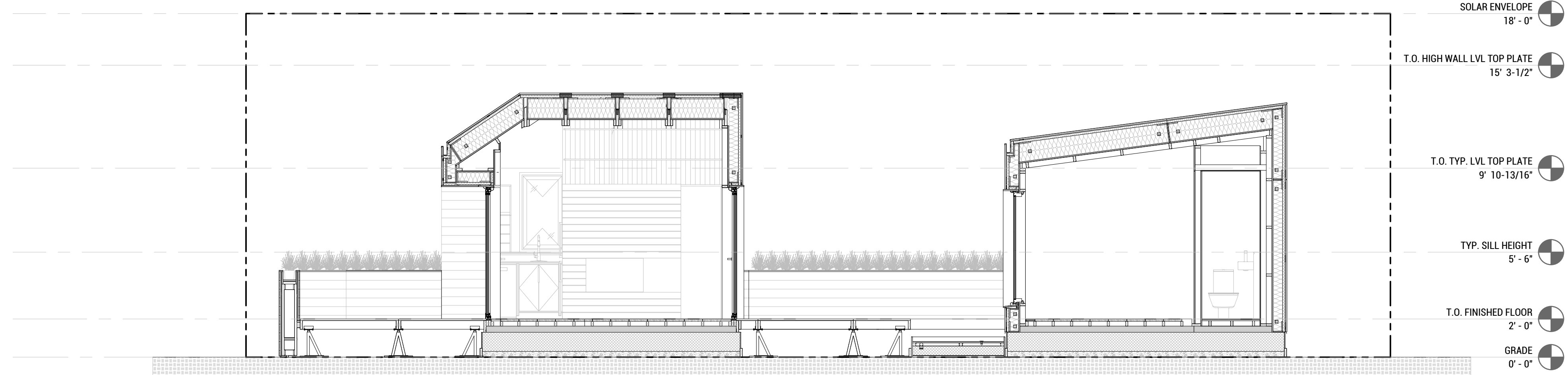
DRAWN BY: MT CHECKED BY:

A-401



- SOLAR ENVELOPE 18' - 0"
- T.O. HIGH WALL LVL TOP PLATE 15' 3-1/2"
- T.O. TYP. LVL TOP PLATE 9' 10-13/16"
- TYP. SILL HEIGHT 5' - 6"
- T.O. FINISHED FLOOR 2' - 0"
- GRADE 0' - 0"

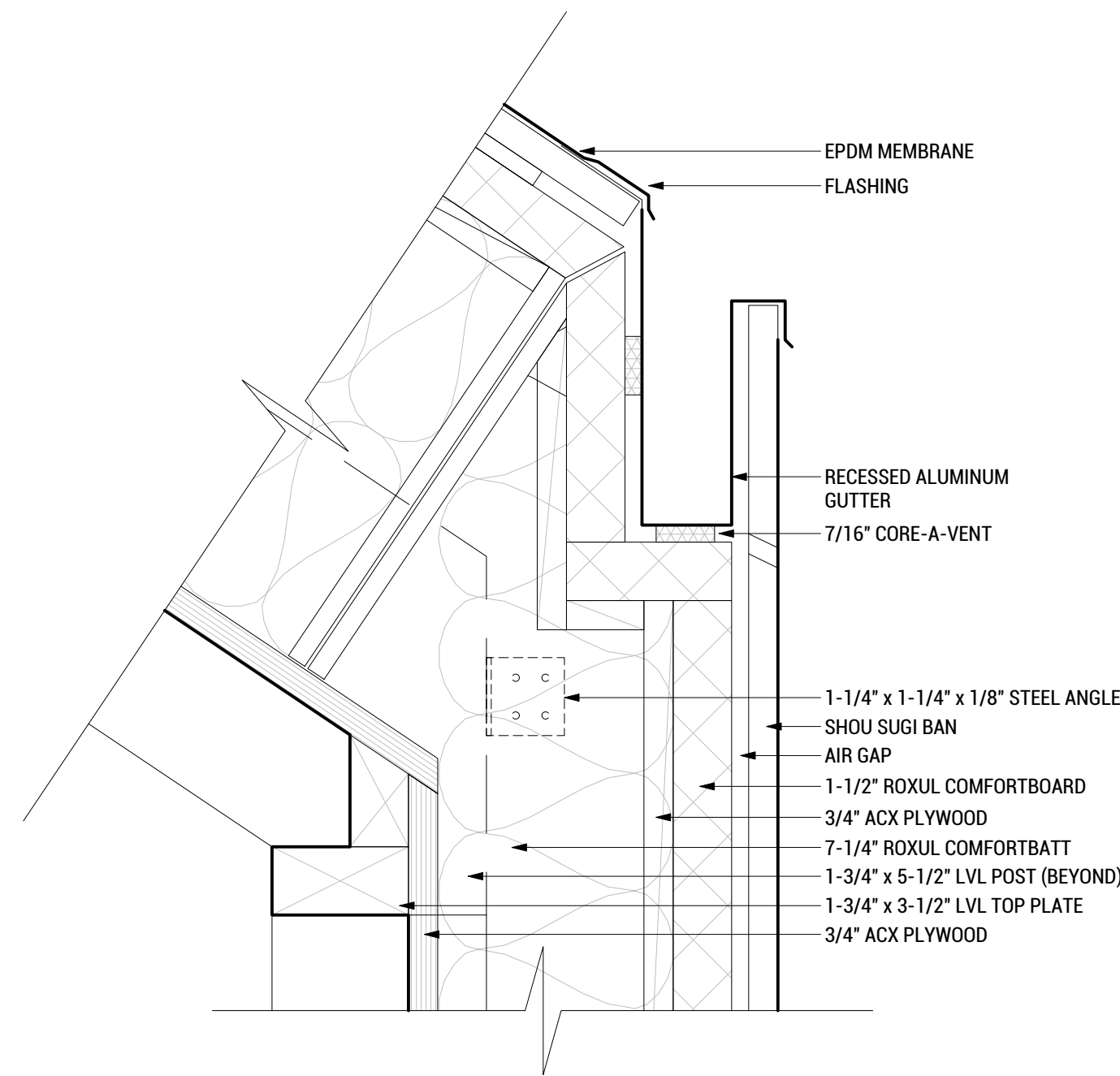
C8 SECTION A  
 SCALE: 1/4"=1'-0"



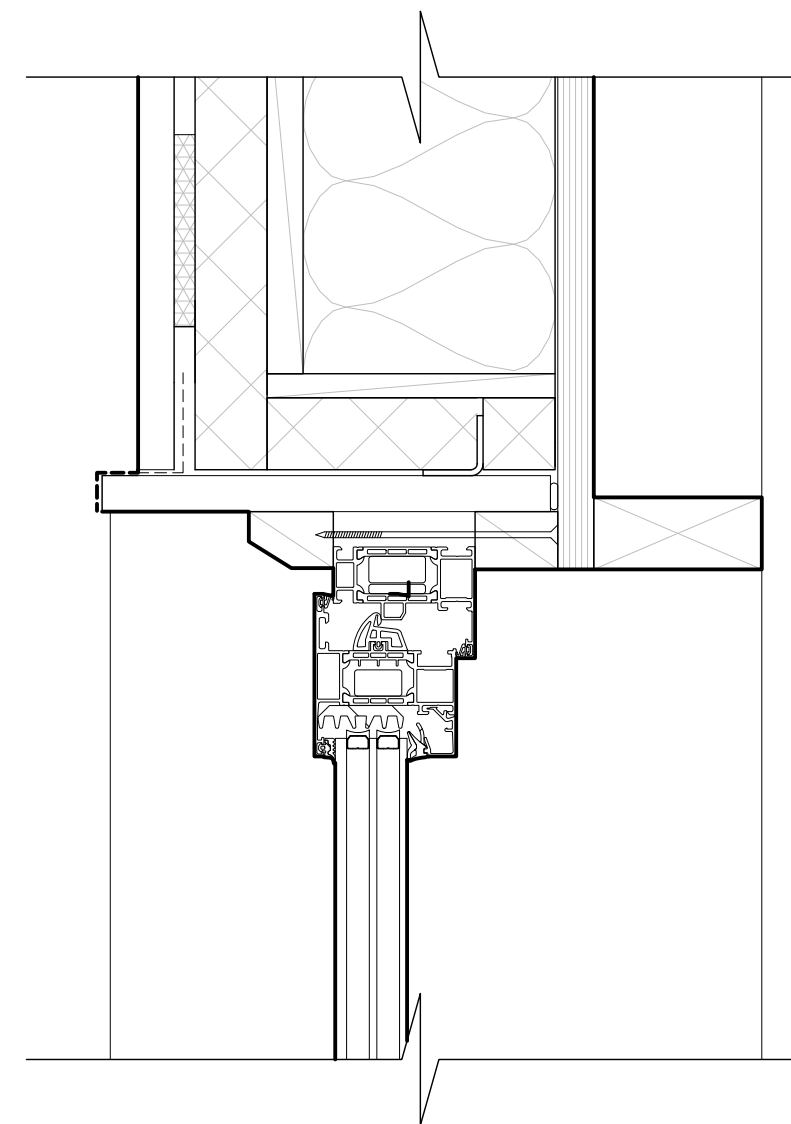
- SOLAR ENVELOPE 18' - 0"
- T.O. HIGH WALL LVL TOP PLATE 15' 3-1/2"
- T.O. TYP. LVL TOP PLATE 9' 10-13/16"
- TYP. SILL HEIGHT 5' - 6"
- T.O. FINISHED FLOOR 2' - 0"
- GRADE 0' - 0"

A6 SECTION B  
 SCALE: 1/4"=1'-0"

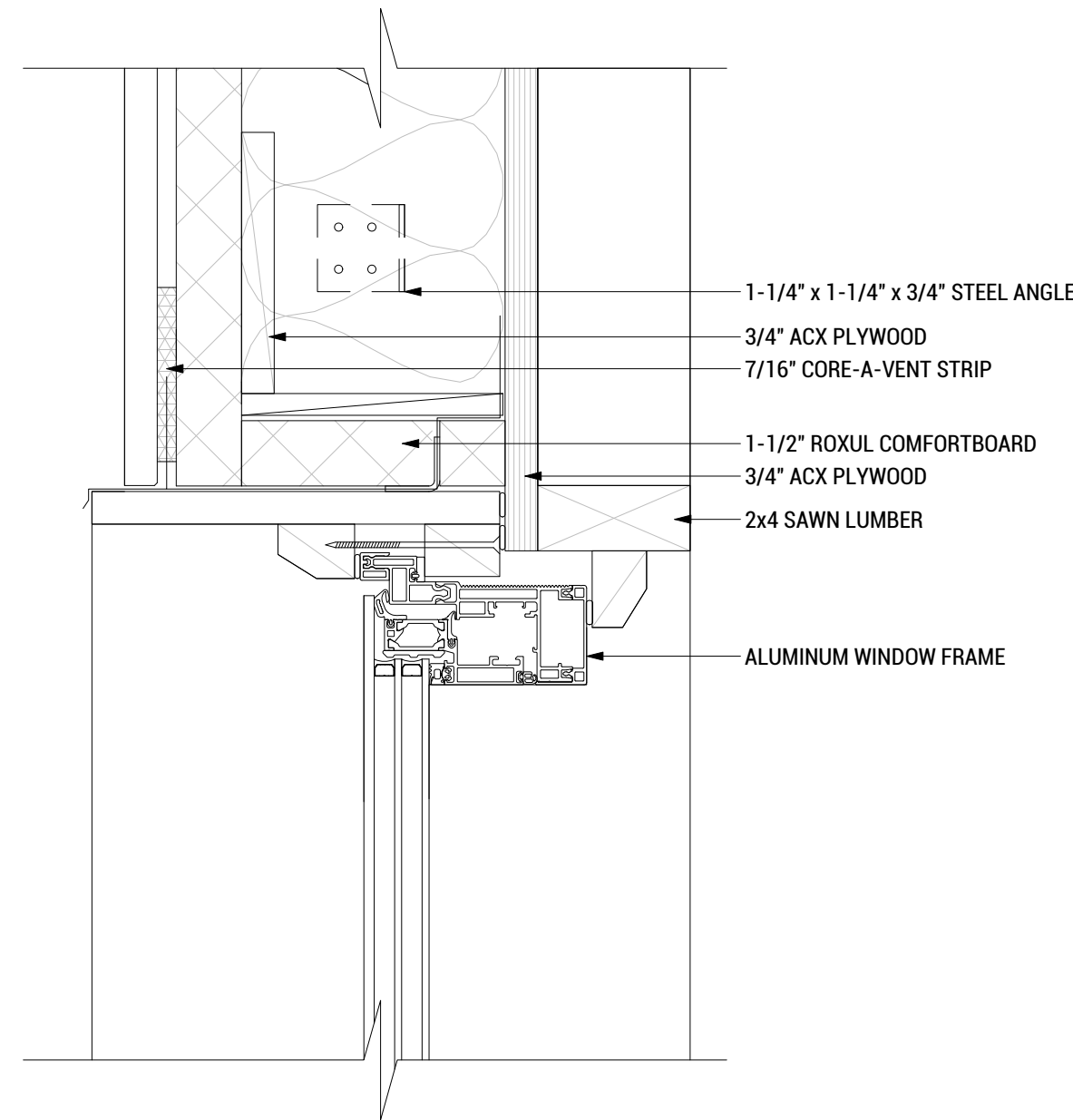




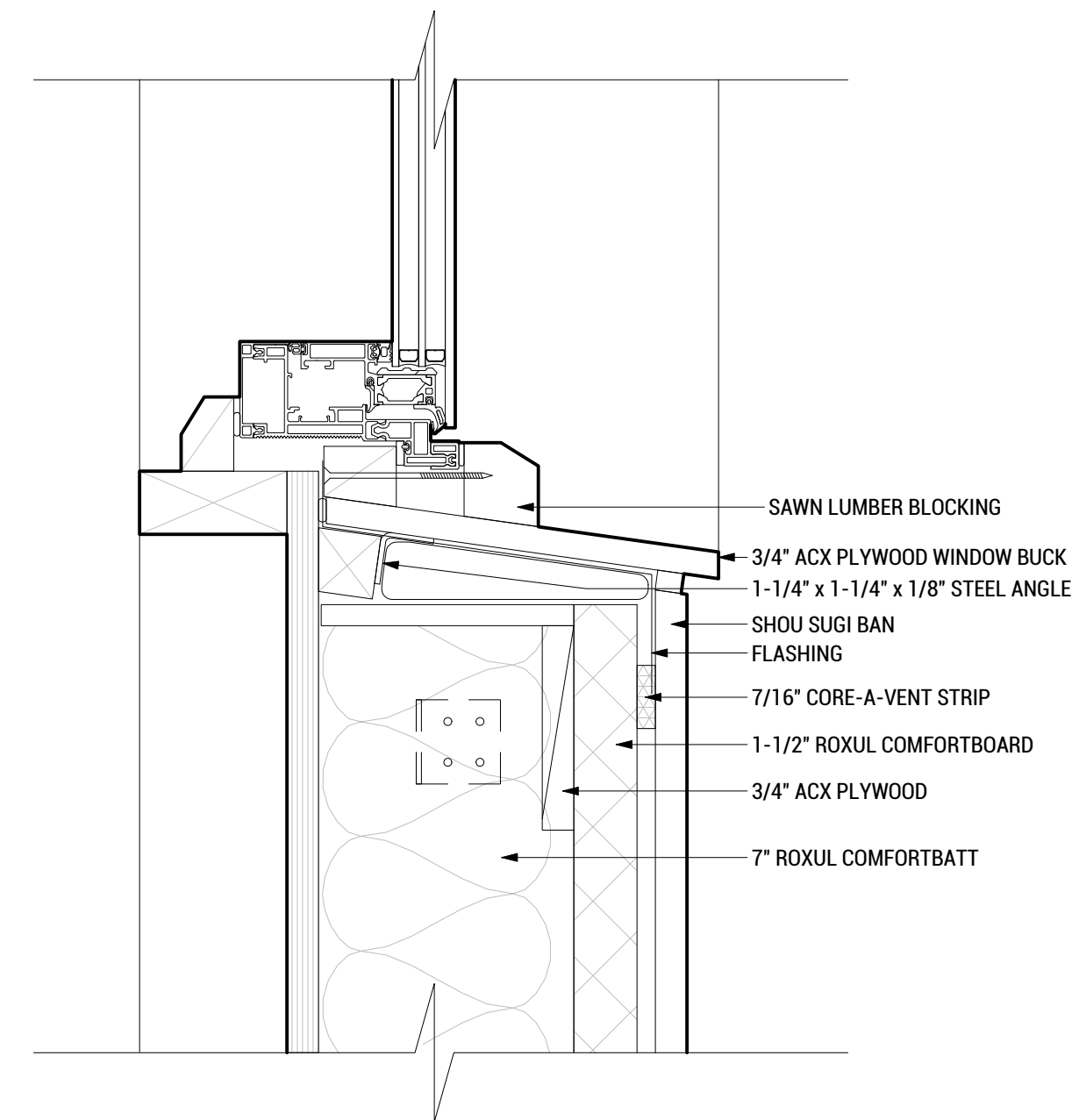
**C8 WALL TO ROOF @ GUTTER**  
SCALE: 3"=1'-0"



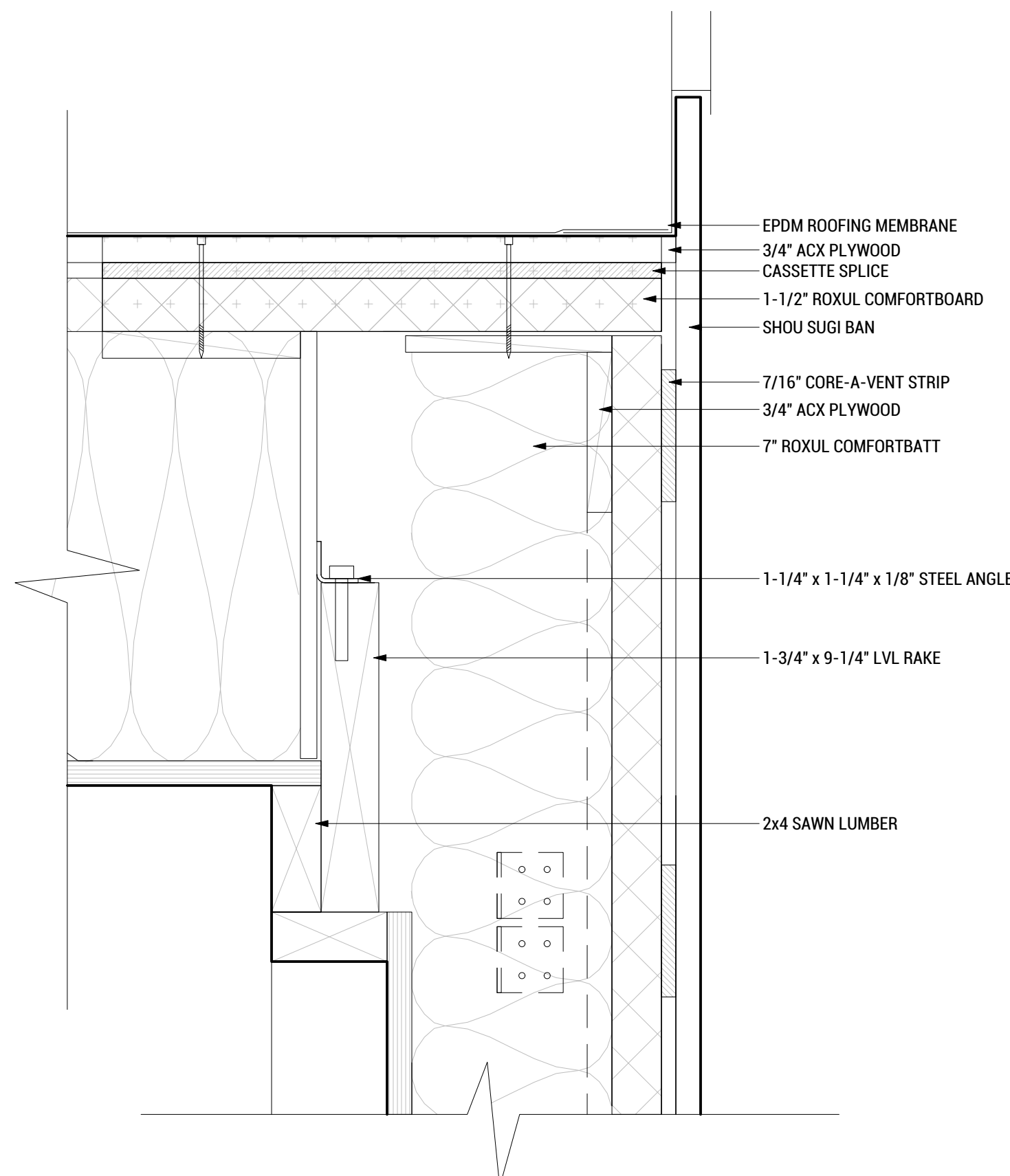
**C6 DOOR HEADER**  
SCALE: 3"=1'-0"



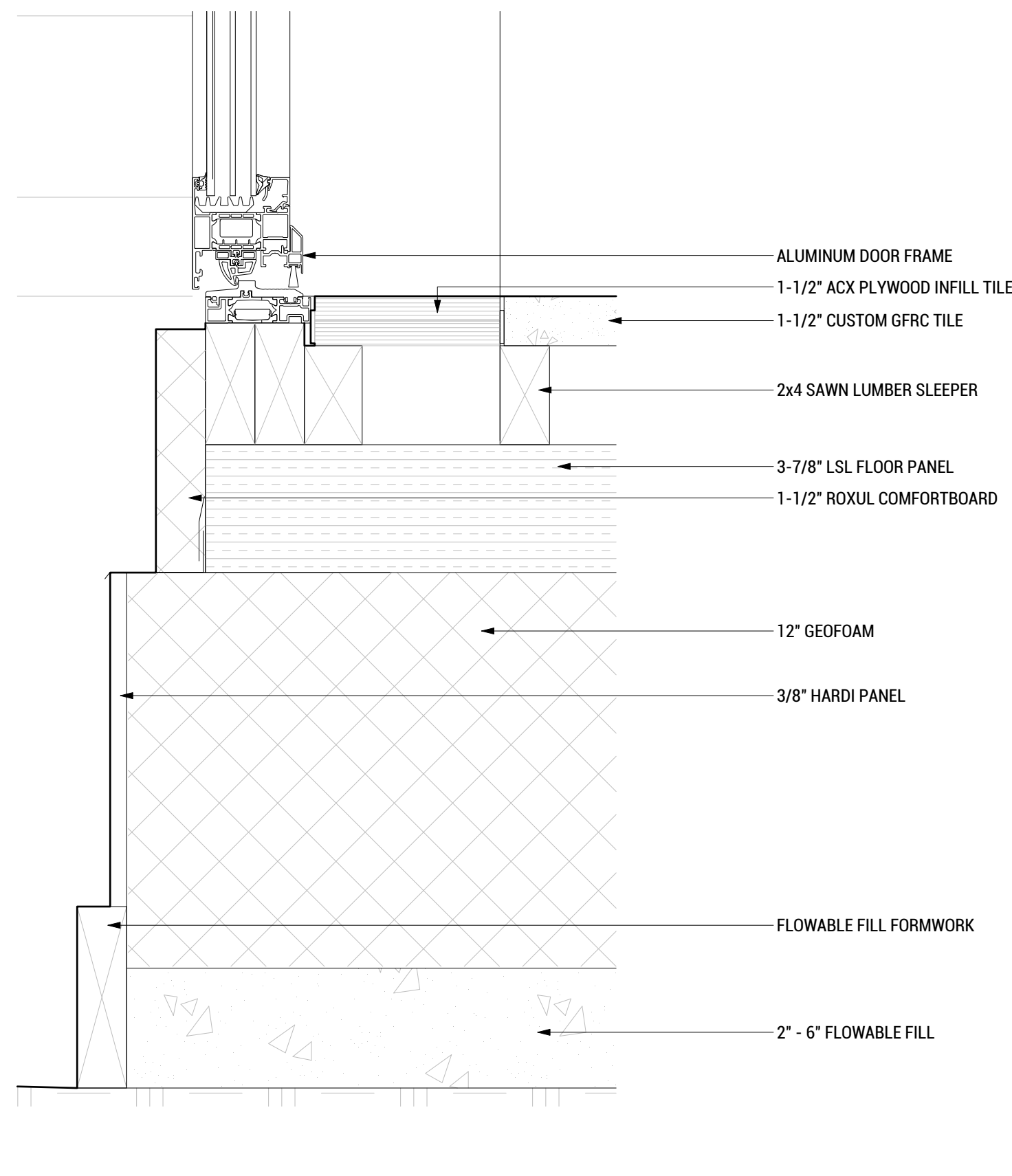
**C4 WINDOW HEADER**  
SCALE: 3"=1'-0"



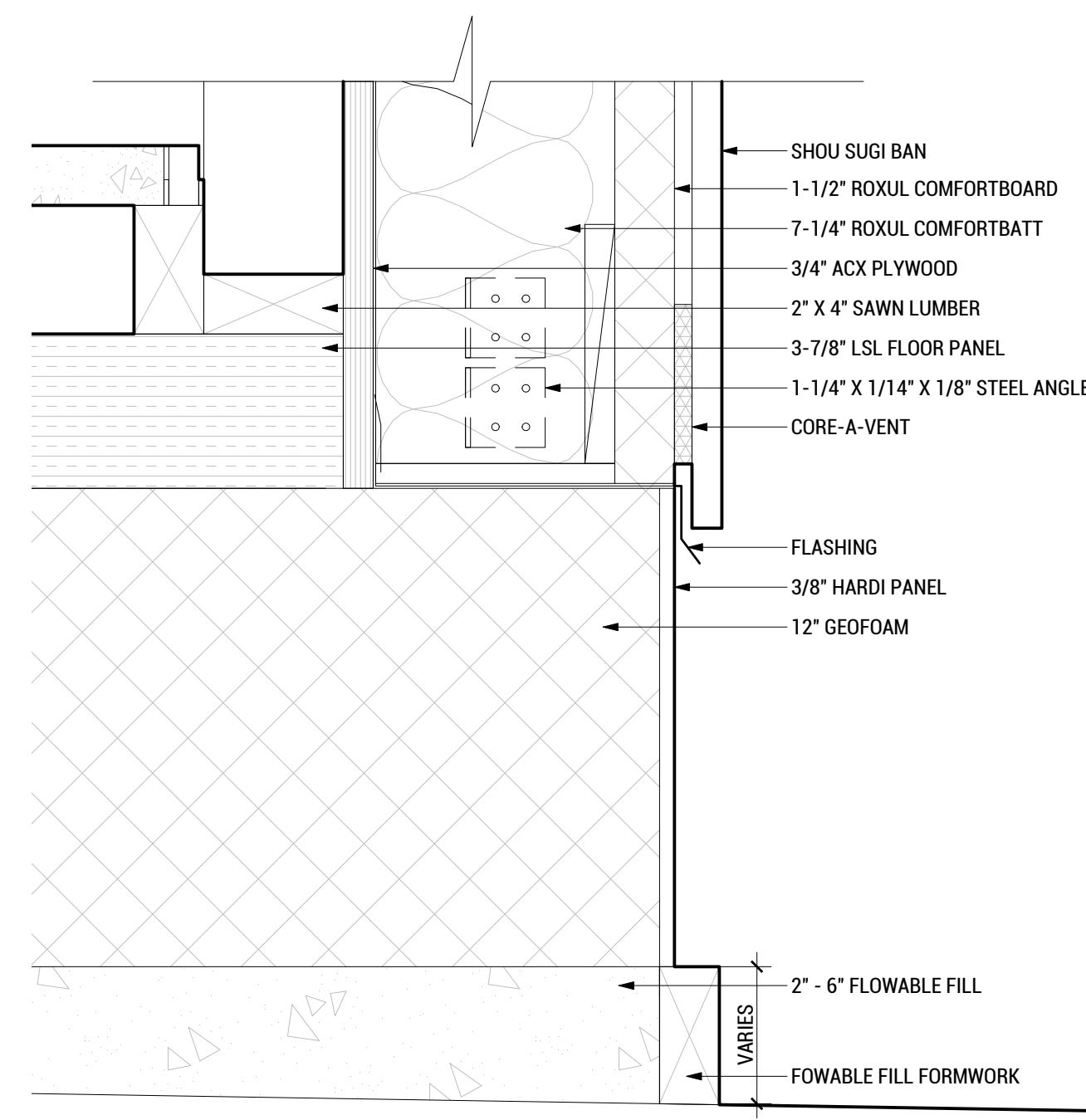
**C2 WINDOW SILL**  
SCALE: 3"=1'-0"



**A7 ROOF UPPER STOP DETAIL**  
SCALE: 3"=1'-0"



**A5 DOOR THRESHOLD**  
SCALE: 3"=1'-0"



**A2 WALL TO FLOOR**  
SCALE: 3"=1'-0"



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	11/15/2016	80% DD SET

LOT NUMBER: LOT #107

SHEET TITLE:

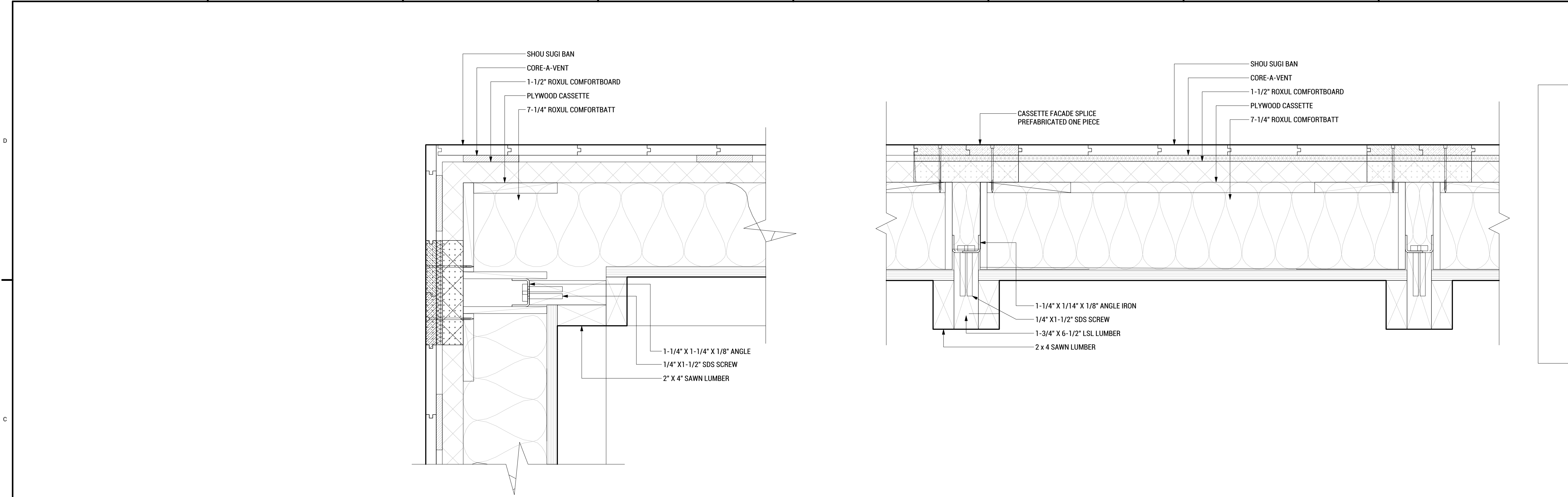
**ENVELOPE DETAILS**

DRAWN BY: MT CHECKED BY: DG

**A-502**

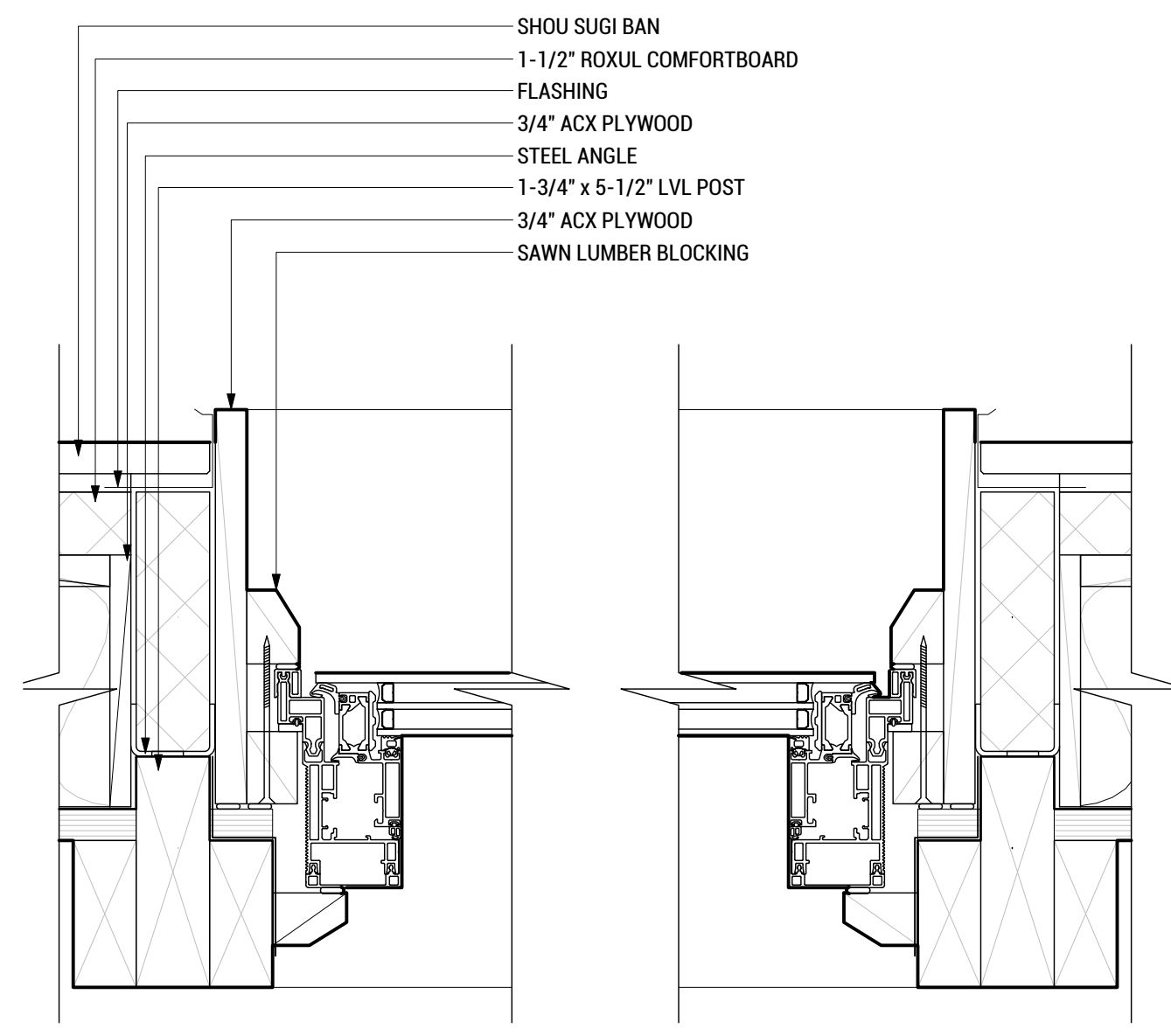


8/10/2017 2:32

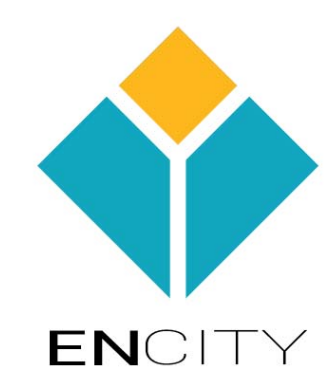


C6 TYP. CORNER ENVELOPE  
SCALE: 3"=1'-0"

C4 TYP. ENVELOPE CONNECTION  
SCALE: 3"=1'-0"



A3 WINDOW JAM  
SCALE: 3"=1'-0"



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LOT NUMBER: LOT #107

SHEET TITLE:

**ENVELOPE DETAILS**

DRAWN BY: MT CHECKED BY: DG

**A-503**



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	02/17/2017	FINAL CHECKSET
	11/15/2016	80% DD SET

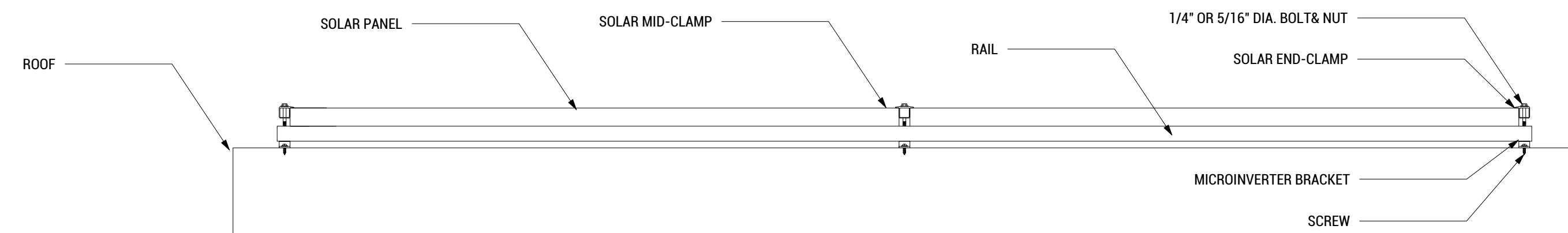
LOT NUMBER: LOT #107

SHEET TITLE:

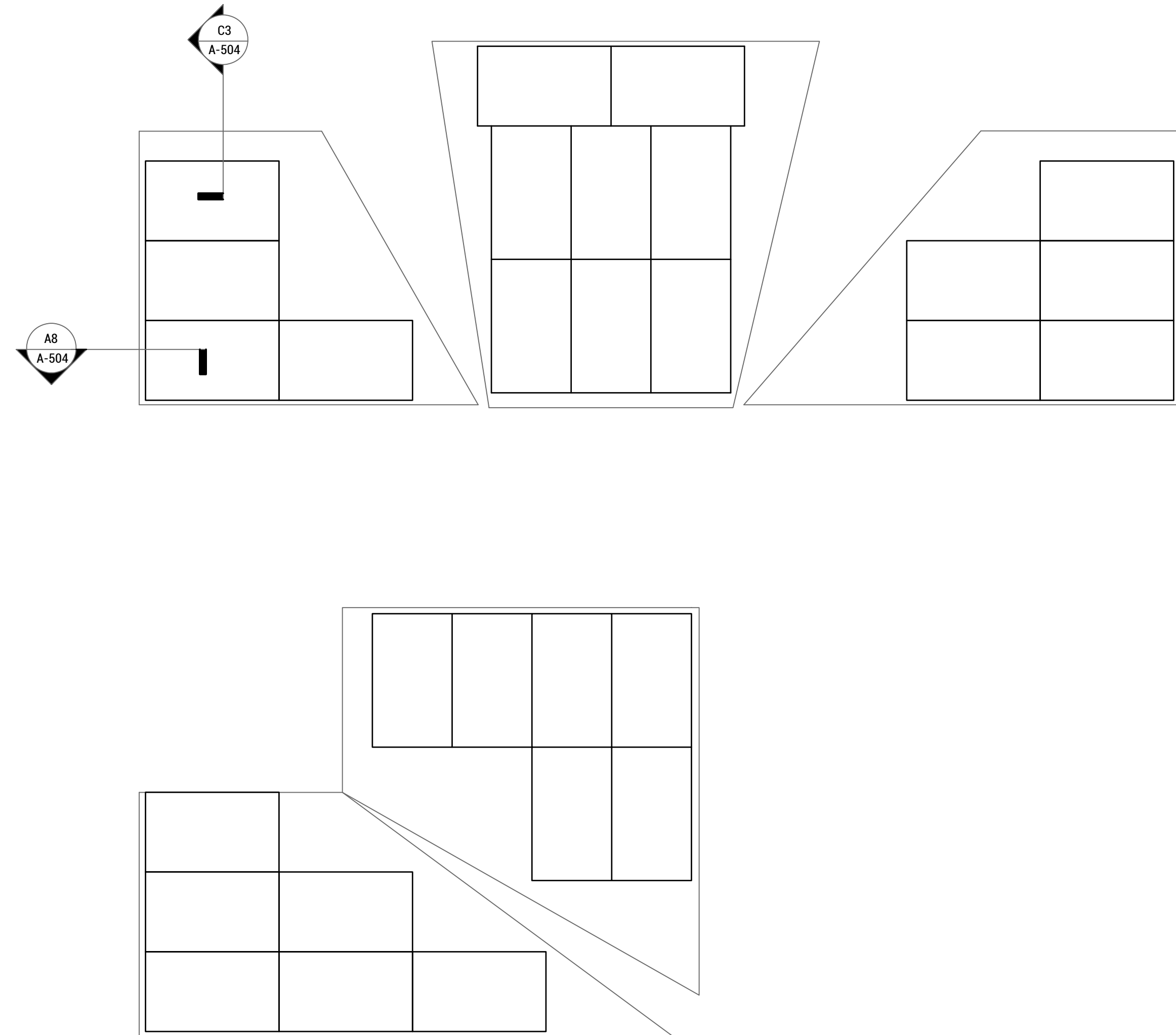
SOLAR PANEL MOUNTING PLAN

DRAWN BY: TG CHECKED BY: TG

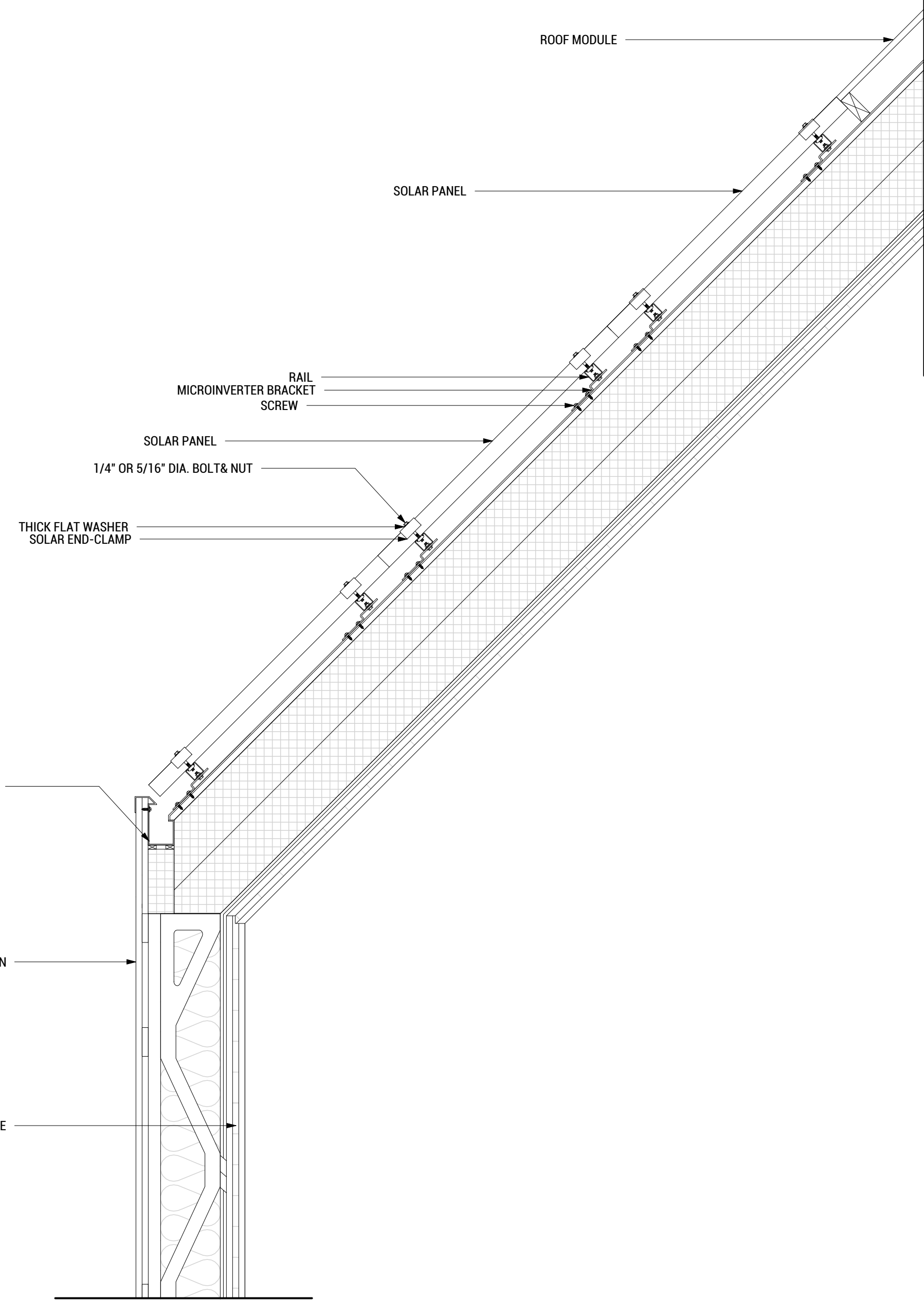
A-504



C3 SECTION A  
 SCALE: 1"=1'-0"



A3 SOLAR PANELS MOUNTING PLAN  
 SCALE: 1/4"=1'-0"



A8 SECTION B  
 SCALE: 1"=1'-0"

5/15/2017 8:15

8 7 6 5 4 3 2 1



ENCITY



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ADDRESS: [STREET] SPOKANE, WA [ZIP CODE]  
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	04/24/2017	100% CD SET
	02/17/2017	FINAL CHECKSET
	11/15/2016	80% DD SET

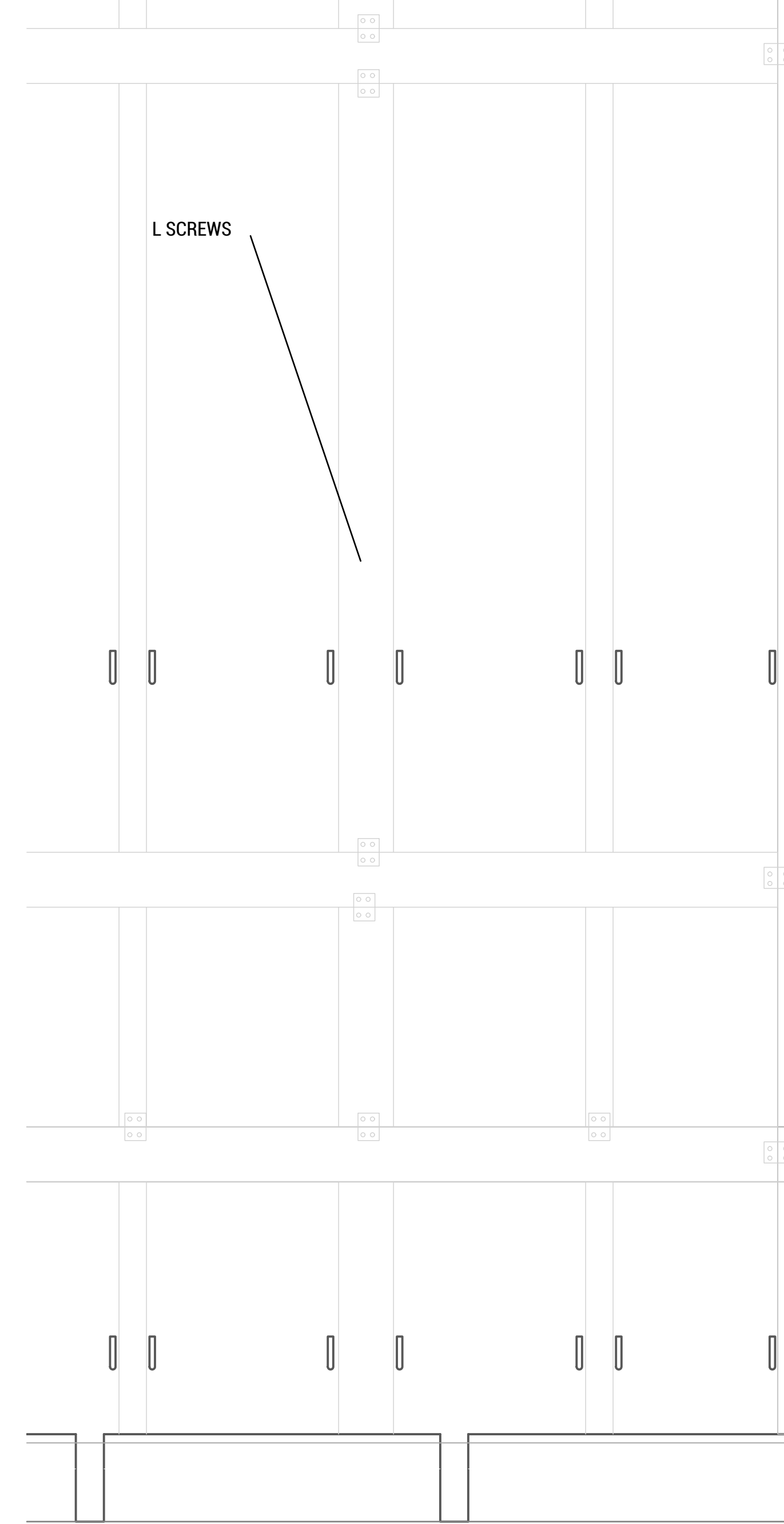
LOT NUMBER: LOT #107

SHEET TITLE:

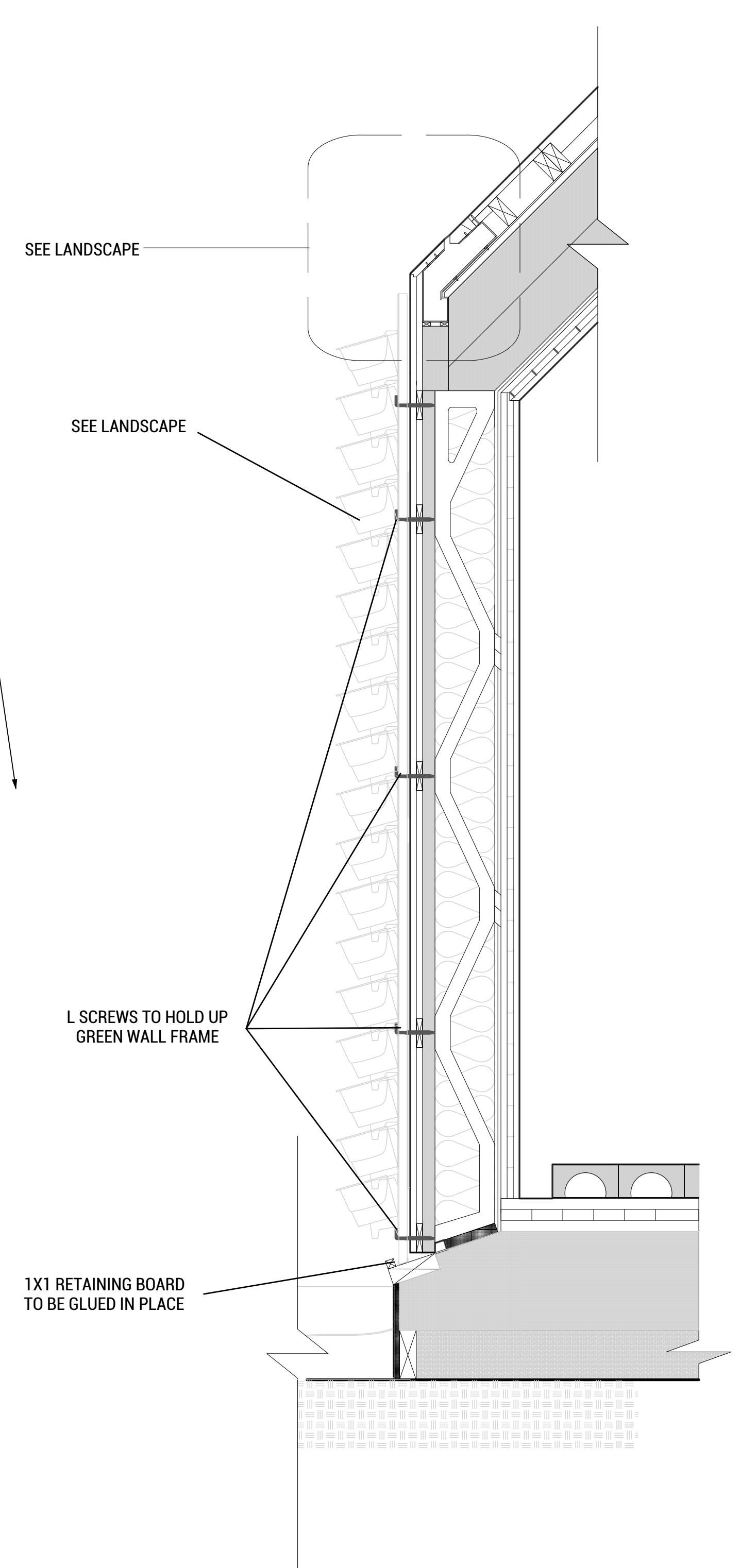
GREENWALL DETAILS

DRAWN BY:AW CHECKED BY:TG

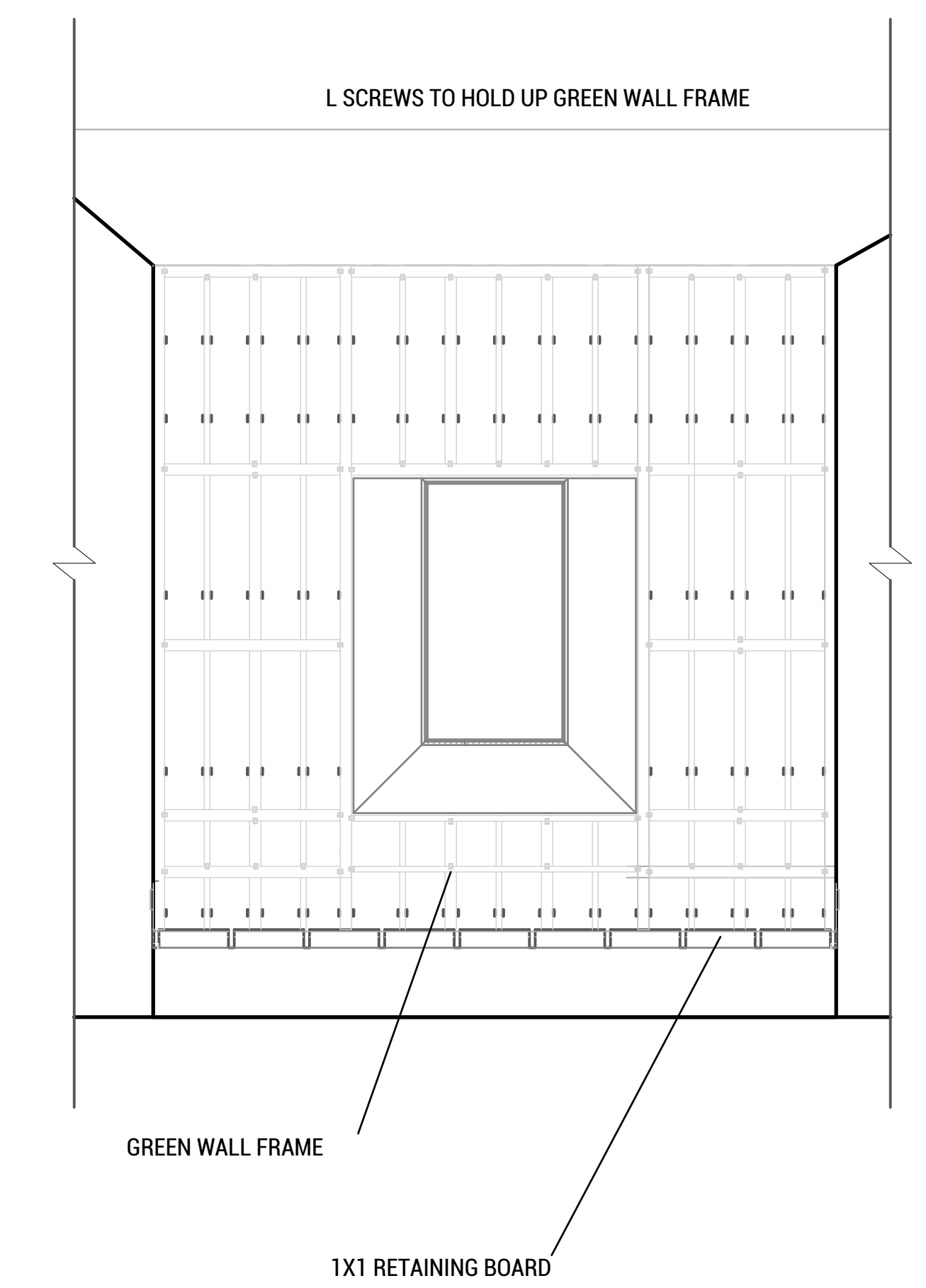
A-505



GREENWALL FRAMING AND ATTACHMENT DETAIL  
SCALE: 3"=1'-0"



GREENWALL FOOTING AND ATTACHMENT DETAIL  
SCALE: 1/4"=1'-0"



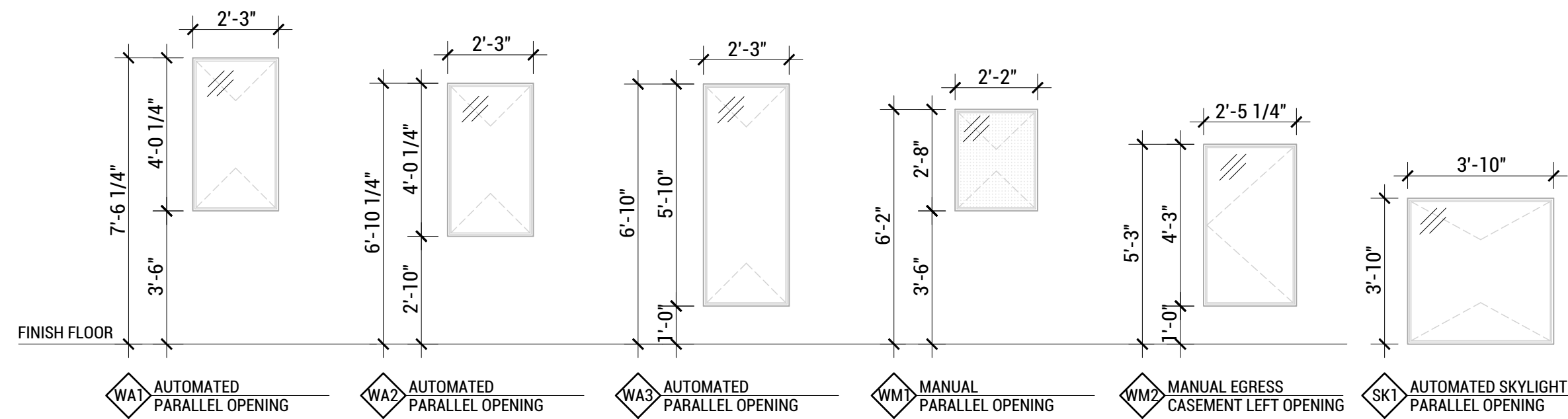
GREENWALL FRAMING AND ATTACHMENT  
SCALE: 1/2"=1'-0"

5/2/2017 2:53



WINDOW SCHEDULE														
TYPE MARK	LOCATION	CSI NO.	DESCRIPTION	MANUFACTURER	SERIES	QTY.	W (IN)	H (IN)	PANES	GAS FILLED	COATING/FILM	U-FACTOR	SHGC	REMARKS
WA1	SEE PLANS	08 51 13	MOTORIZED PARALLEL OPENING WINDOW (PAF)	SCHUCO	AWS 114 (TIPTRONIC)	4	27	48 25	3	ARG/AIR (50/50)		0.25	0.16	
WA2	TINY HOME LIVING	08 51 13	MOTORIZED PARALLEL OPENING WINDOW (PAF)	SCHUCO	AWS 114 (TIPTRONIC)	1	27	48 25	3	ARG/AIR (50/50)		0.25	0.16	
WA3	CLUBHOUSE DINING	08 51 13	MOTORIZED PARALLEL OPENING WINDOW (PAF)	SCHUCO	AWS 114 (TIPTRONIC)	1	27	70	3	ARG/AIR (50/50)	LOW E	0.25	0.16	
WM1	TINY HOME BATH	08 51 13	MANUAL PARALLEL OPENING WINDOW (PAF)	SCHUCO	AWS 114 (TIPTRONIC)	1	26	32	3	ARG/AIR (50/50)	M3 FROSTED	0.25	0.16	
WM2	TINY HOME LOFT	08 51 13	MANUAL CASEMENT EGRESS WINDOW	SCHUCO	AWS 75 SI	1	29.25*	51*	3	ARG/AIR (50/50)		0.25	0.16	
SK1	TINY HOME/CLUBHOUSE ROOF	08 63 53	MOTORIZED SKYLIGHT (PAF)	SCHUCO	FW60+HI	3	46	46	3	ARG/AIR (90/10)		0.23	0.31	VT=55

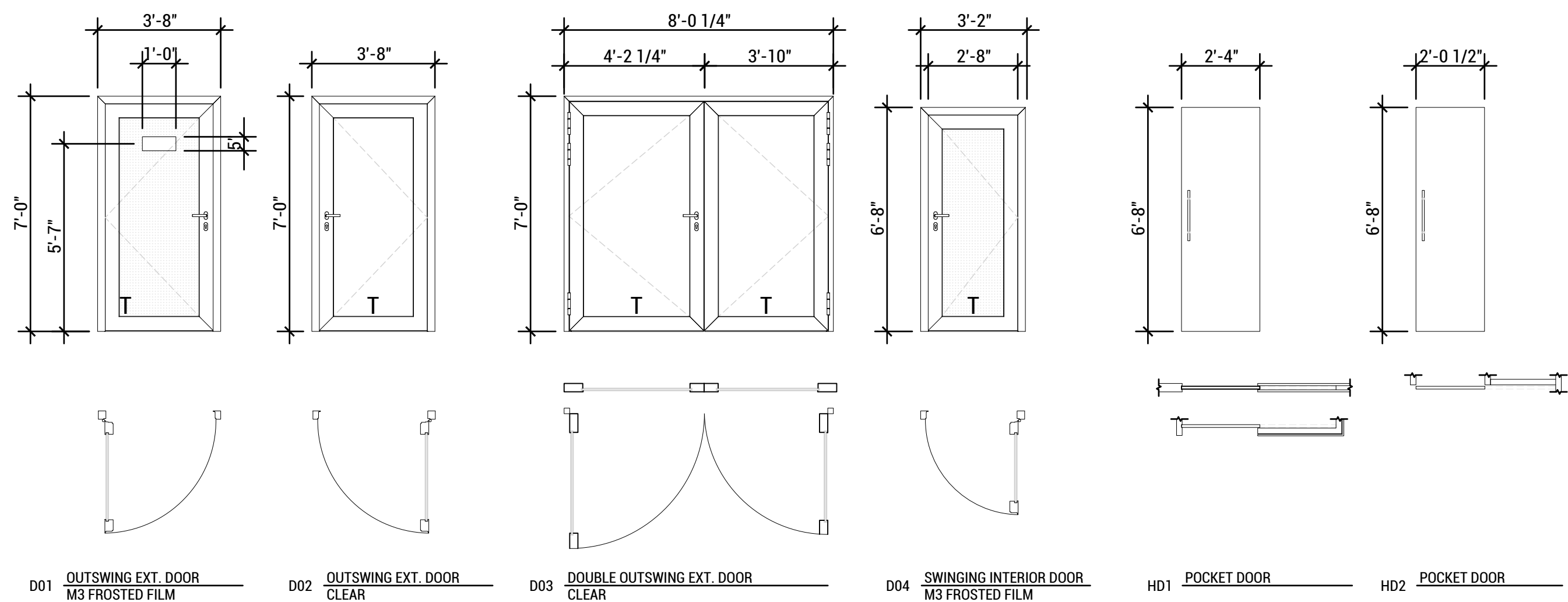
\* NET CLEAR WIDTH IS 20", NET CLEAR HEIGHT IS 41.5", NET CLEAR AREA IS 5.76 SF WHICH IS GREATER THAN THE MINIMUM REQUIRED.



**C4 WINDOW TYPES**  
SCALE: 1/4"=1'-0"

DOOR SCHEDULE													
TYPE MARK	LOCATION	CSI NO.	DESCRIPTION	MANUFACTURER	SERIES	QTY.	W (IN)	H (IN)	PANES	GAS FILLED	COATING/FILM	R-VALUE	REMARKS
DD1	TINY HOME	08 10 00	OUTSWING EXTERIOR DOOR (FROSTED)	SCHUCO		2	44	84	2		3M FROSTED		TEMPERED (SAFETY GLASS)
DD2	CLUBHOUSE LIVING	08 10 00	OUTSWING EXTERIOR DOOR (CLEAR)	SCHUCO		1	44	84	2				TEMPERED (SAFETY GLASS)
DD3	CLUBHOUSE KITCHEN	08 10 00	DOUBLE OUTSWING EXTERIOR DOOR (CLEAR)	SCHUCO		1	96 1/4	84	2		LOW E		TEMPERED (SAFETY GLASS)
DD4	CLUBHOUSE BATH	08 10 00	SWINGING INTERIOR DOOR (FROSTED)	SCHUCO		1	38	80	2		3M FROSTED		TEMPERED (SAFETY GLASS)
DD1	TINY HOME BATH/HALL	08 10 00	POCKET/HANGING DOOR	BIRCH PLYWOOD		2	28	80	N/A	N/A	VERATHANE		
DD2	TINY HOME LAUNDRY	08 10 00	POCKET/HANGING DOOR	BIRCH PLYWOOD		1	24 1/2	80	N/A	N/A	VERATHANE		

NOTES:  
1. PRODUCTS TO OMIT MATERIALS FROM THE LIVING BUILDING CHALLENGE RED LIST INCLUDING PVC.  
2. ALL WINDOWS IN WALL OPENINGS TO BE OF THE SAME FRAME/CLADDING TYPE.  
3. T=TEMPERED



NOTE:  
T=TEMPERED GLASS (SAFETY GLASS)

**A4 DOOR TYPES**  
SCALE: 1/4"=1'-0"



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	11/15/2016	80% DD SET

LOT NUMBER: LOT #107

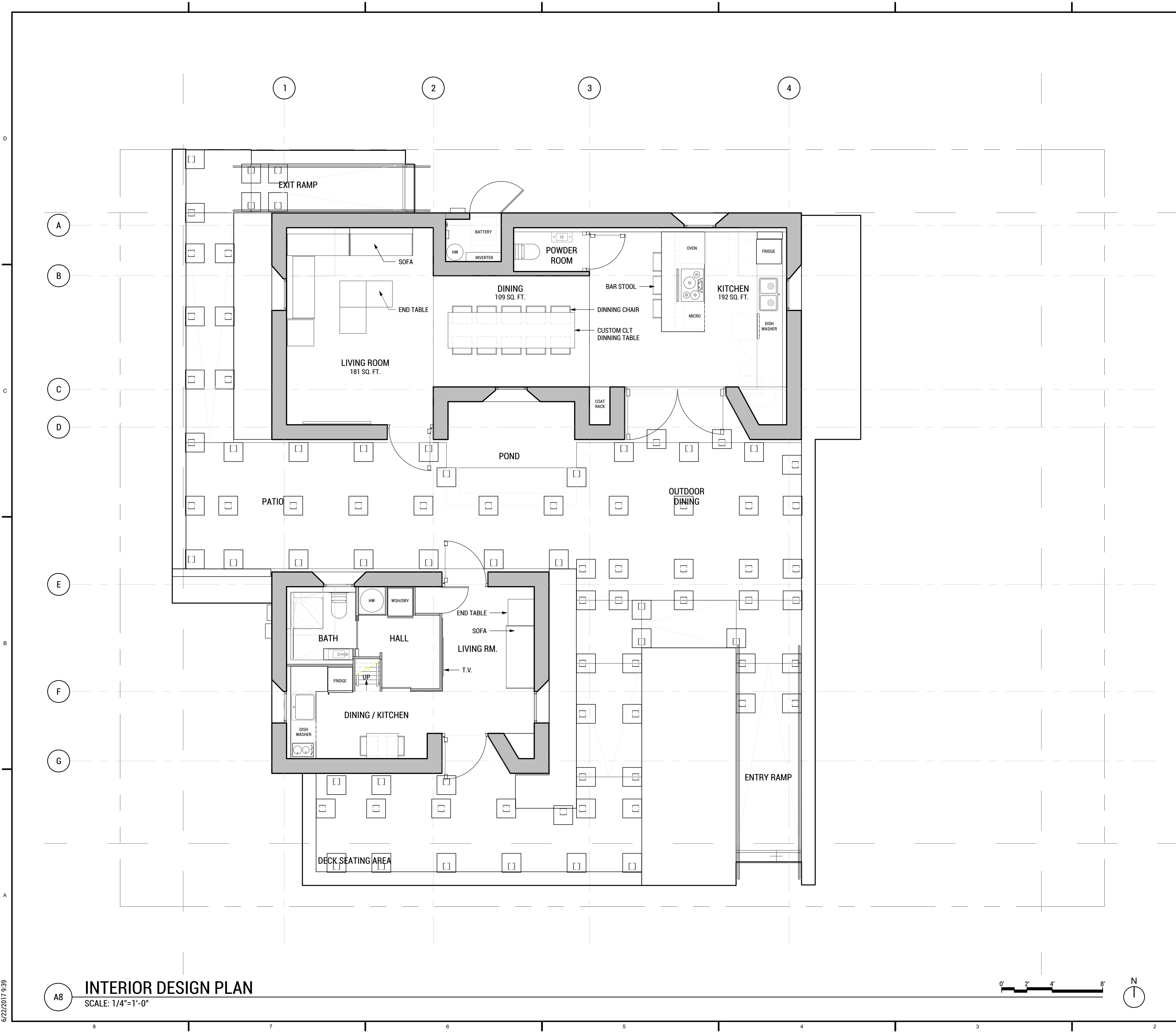
SHEET TITLE:

**WINDOW AND DOOR SCHEDULE**

DRAWN BY: TG CHECKED BY: DG

**A-601**

7/14/2017 2:47



**SHEET NOTES**

1. SEE WINDOW AND DOOR SCHEDULE ON A-601
2. SEE WALL TYPES A2 ON A-501
3. SEE LANDSCAPE PLANS FOR LANDSCAPE LAYOUT



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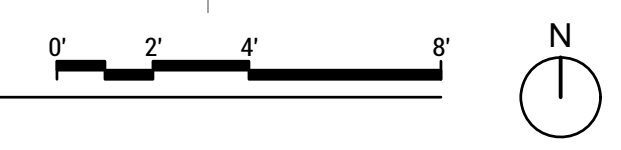
SHEET TITLE:

**INTERIOR DESIGN PLAN**

DRAWN BY: TJ CHECKED BY: AW

**I-101**

**A8 INTERIOR DESIGN PLAN**  
 SCALE: 1/4"=1'-0"



6/22/2017 9:39



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	11/15/2016	80% DD SET

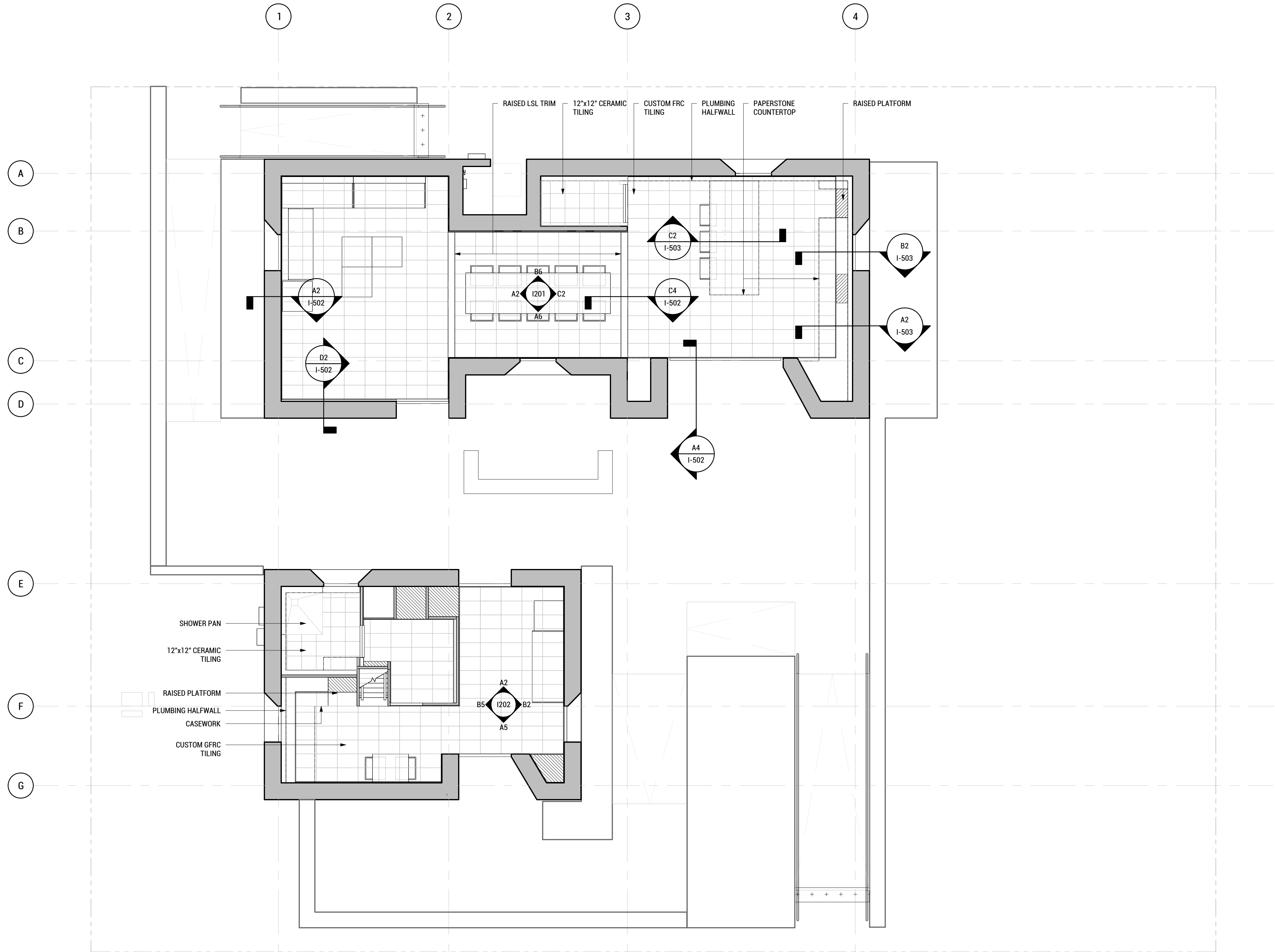
LOT NUMBER: LOT #107

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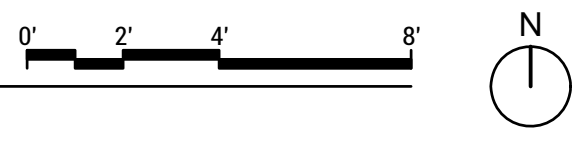
FINISHED FLOOR PLAN

DRAWN BY: SA CHECKED BY: TG

I-102



FLOOR FINISH PLAN  
SCALE: 1/4"=1'-0"



7/10/2017 4:19





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	11/15/2016	80% DD SET

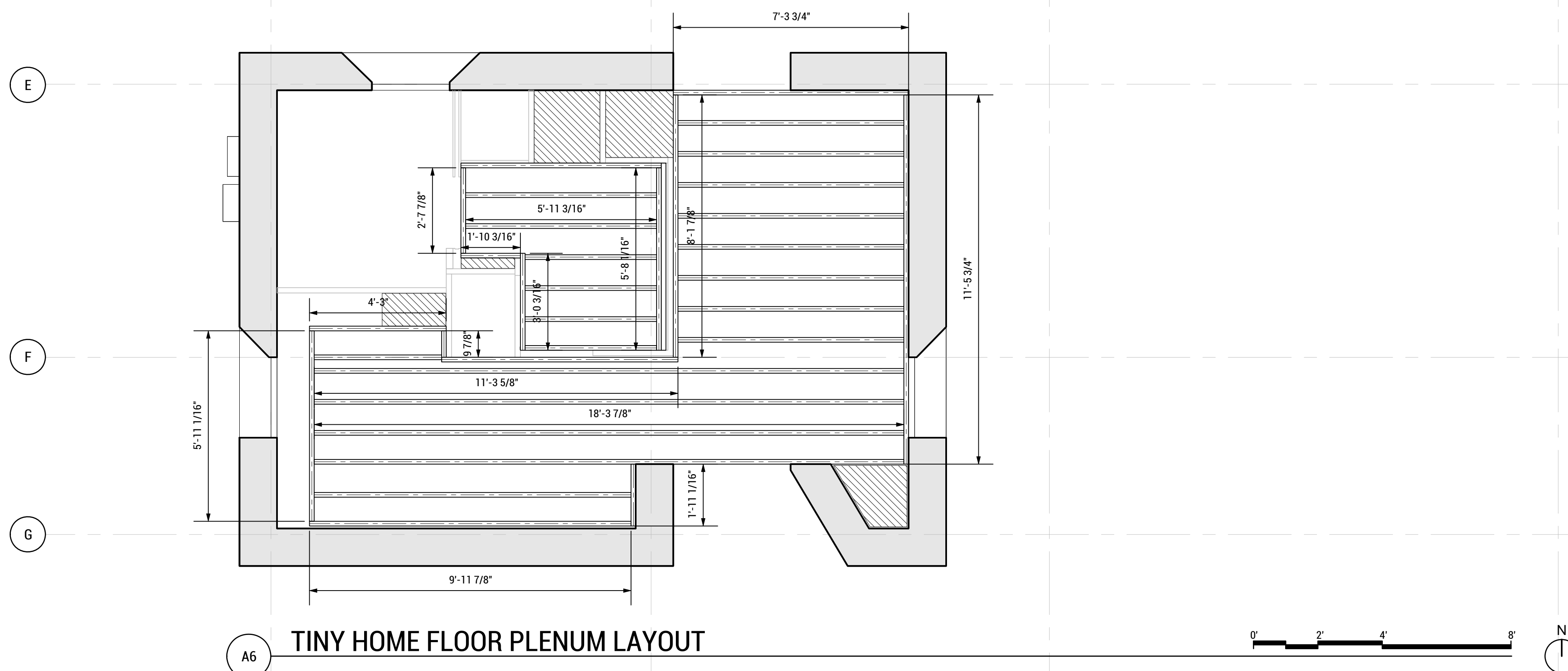
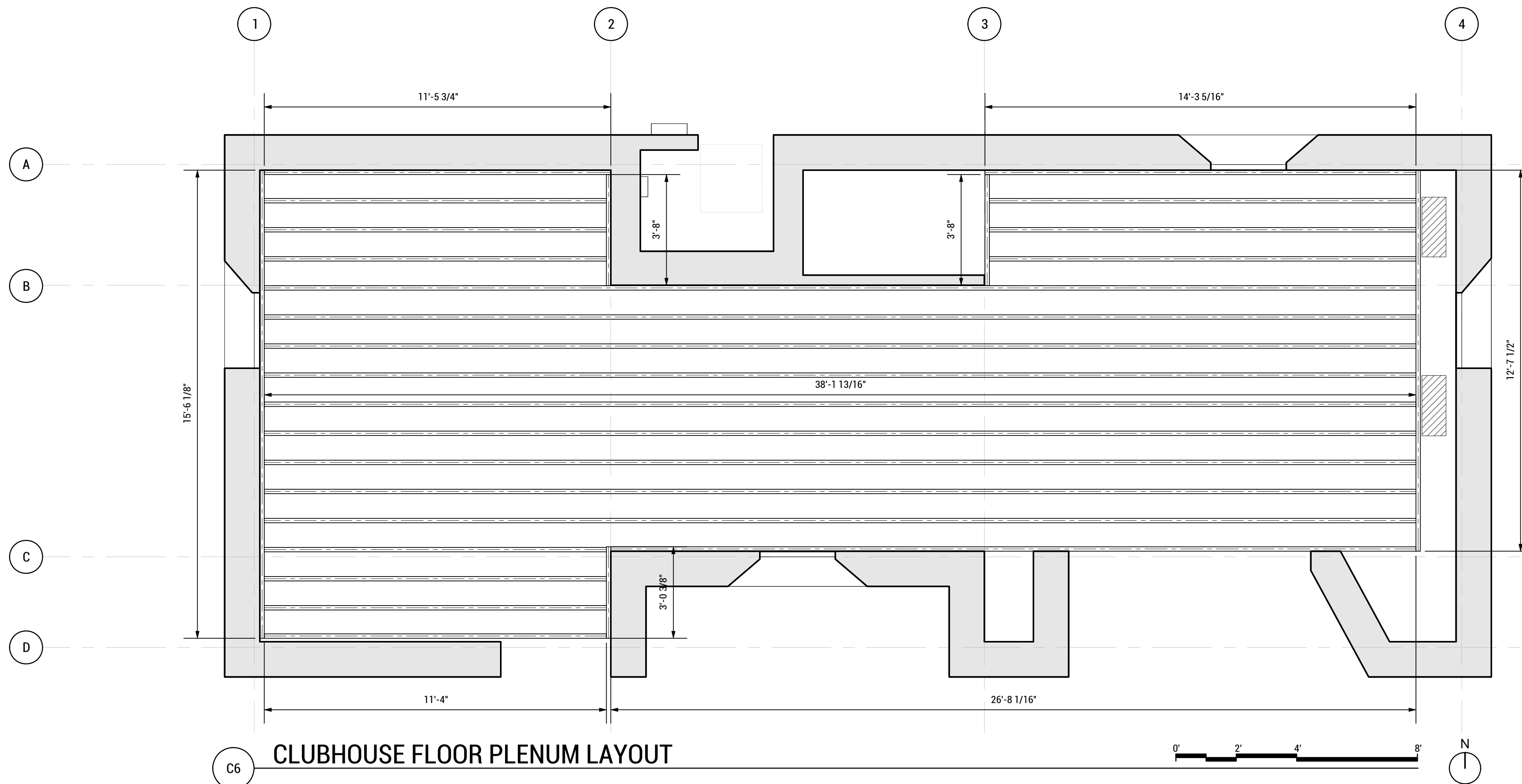
LOT NUMBER: LOT #107

SHEET TITLE:

FLOOR PLENUM LAYOUT

DRAWN BY: SA CHECKED BY: TG

I-103



FINISH SCHEDULE																
LOCATION	BLDG ROOM	BASE		FLOOR		N. WALL		E. WALL		S. WALL		W. WALL		CEILING		REMARKS
		MAT'L	FIN	MAT'L	FIN	MAT'L	FIN	MAT'L	FIN	MAT'L	FIN	MAT'L	FIN	MAT'L	FIN	
T.H.	LIVING	N/A		T-1	SEAL	CLT	ST-1	CLT	ST-1	CLT	ST-1	CLT	ST-1	CLT	ST-1	
	KITCHEN	N/A		T-1	SEAL	CLT	ST-1	CLT	ST-1	CLT	ST-1	CLT	ST-1	CLT	ST-1	
	LOFT	N/A		CLT	CC	CLT	ST-1	CLT	N/A	CLT	N/A	CLT	ST-1	CLT	ST-1	
	HALL	N/A		T-1	SEAL	CLT	ST-1	CLT	ST-1	CLT	ST-1	CLT	ST-1	CLT	ST-1	
	BATH	T-2		T-2	SEAL	*	*	*	*	*	*	*	T-2	T-2		*SEE INT. ELEV.
CLUB	LIVING	N/A		T-1	SEAL	CLT	ST-1	CLT	ST-1	CLT	ST-1	CLT	ST-1	CLT	ST-1	
	KITCHEN	N/A		T-1	SEAL	CLT	ST-1	CLT	ST-1	CLT	ST-1	CLT	ST-1	CLT	ST-1	*SEE INT. ELEV.
	DINING	N/A		T-1	SEAL	CLT	ST-1	CLT	ST-1	CLT	ST-1	CLT	ST-1	CLT	ST-1	
	BATH	T-2		T-2	SEAL	CLT	ST-1	CLT	ST-1	CLT	ST-1	CLT	ST-1	CLT	ST-1	*SEE INT. ELEV.
	MECH	N/A		CLT	CC	PLY	CC	PLY	CC	PLY	CC	PLY	CC	PLY	CC	

NOTE:  
SEE EXTERIOR ELEVATIONS FOR EXTERIOR FINISHES.

FINISH LEGEND		
CSI DIVISION	SYMBOL	DESCRIPTION
CBL		CABLE RAIL
CC-1		CLEAR COAT-INTERIOR SEALANT
CC-2		CLEAR COAT-EXTERIOR NATURAL OIL
CLT		EXPOSED CROSS LAMINATED TIMBER
PLY		EXPOSED PLYWOOD
SEAL		CONCRETE SEALANT
SLAT		SLAT WALL (CEDER BORDS)
ST-1		WHITE WASH INTERIOR STAIN
ST-2		EXTERIOR WHITE WASH STAIN W/SEALER
T-1		CUSTOM GFRG PLENUM TILES
T-2		12'X12" TILE



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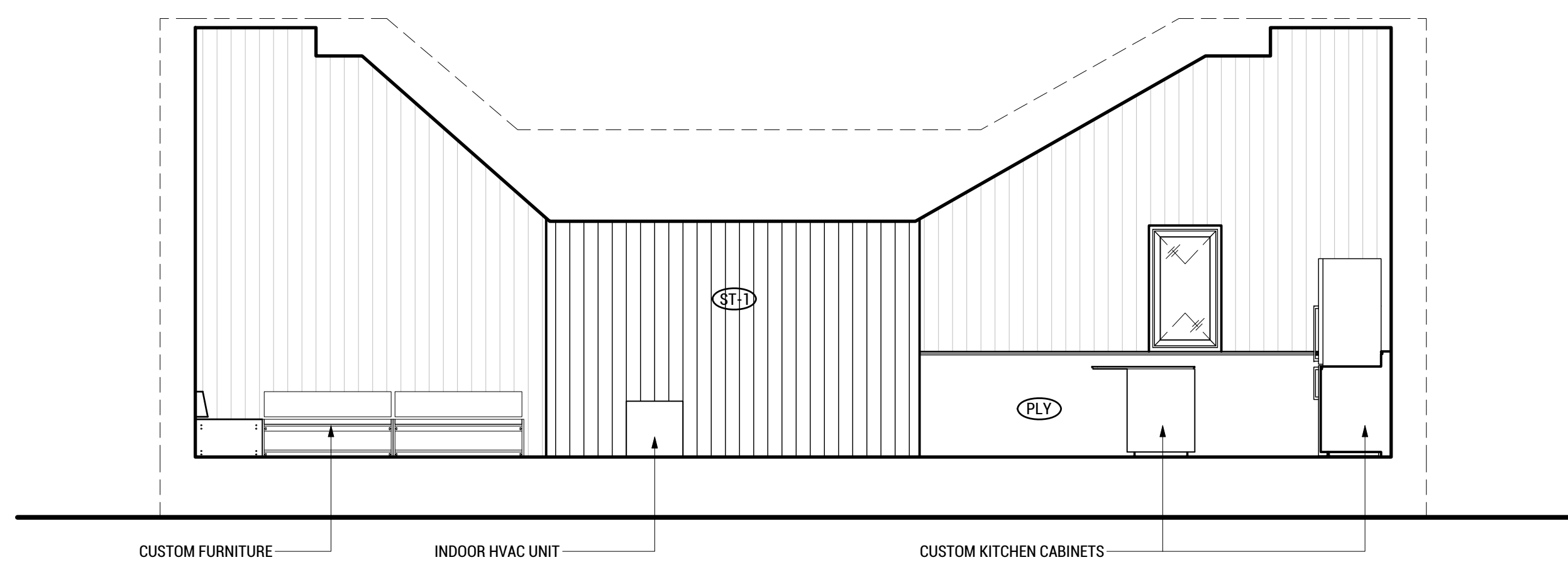
LOT NUMBER: LOT #107

SHEET TITLE:

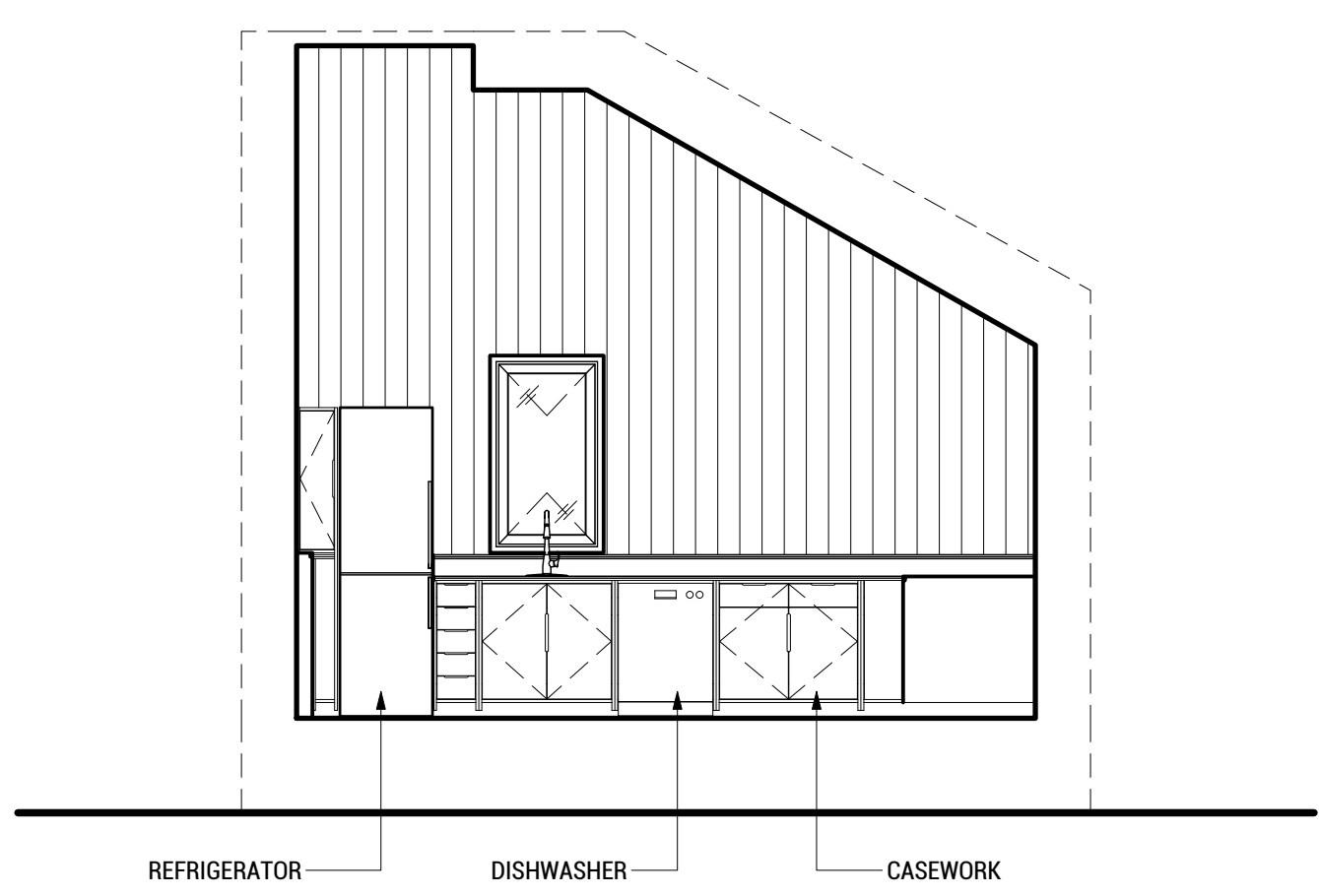
### CLUBHOUSE INTERIOR ELEVATIONS

DRAWN BY: SA CHECKED BY: TG

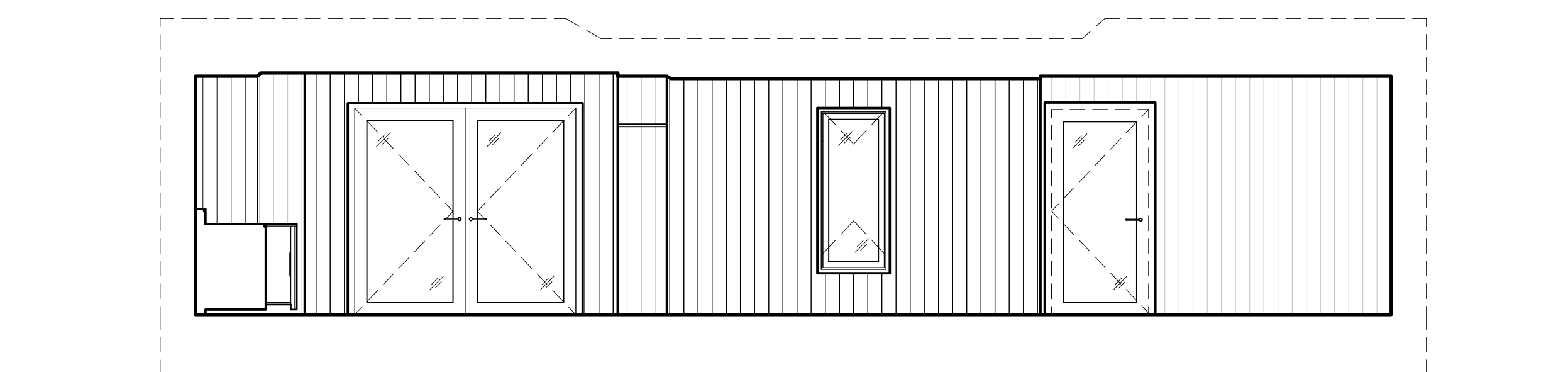
# I-201



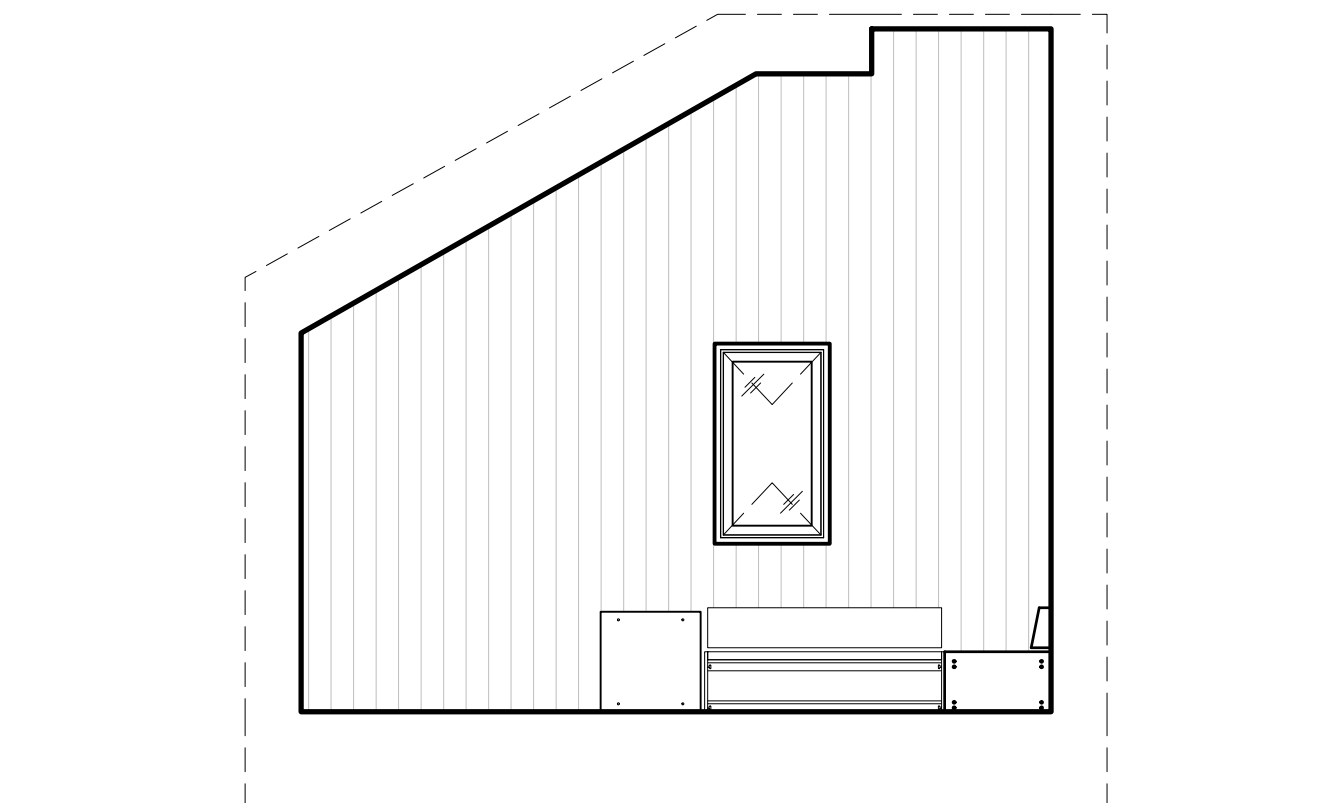
**B6 NORTH INTERIOR ELEVATION**  
 SCALE: 1/4"=1'-0"



**C2 EAST INTERIOR ELEVATION**  
 SCALE: 1/4"=1'-0"



**A6 SOUTH INTERIOR ELEVATION**  
 SCALE: 1/4"=1'-0"



**A2 WEST INTERIOR ELEVATION**  
 SCALE: 1/4"=1'-0"

7/10/2017-358



WASHINGTON STATE UNIVERSITY

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LOT NUMBER: LOT #107

SHEET TITLE:

TINYHOME INTERIOR ELEVATIONS

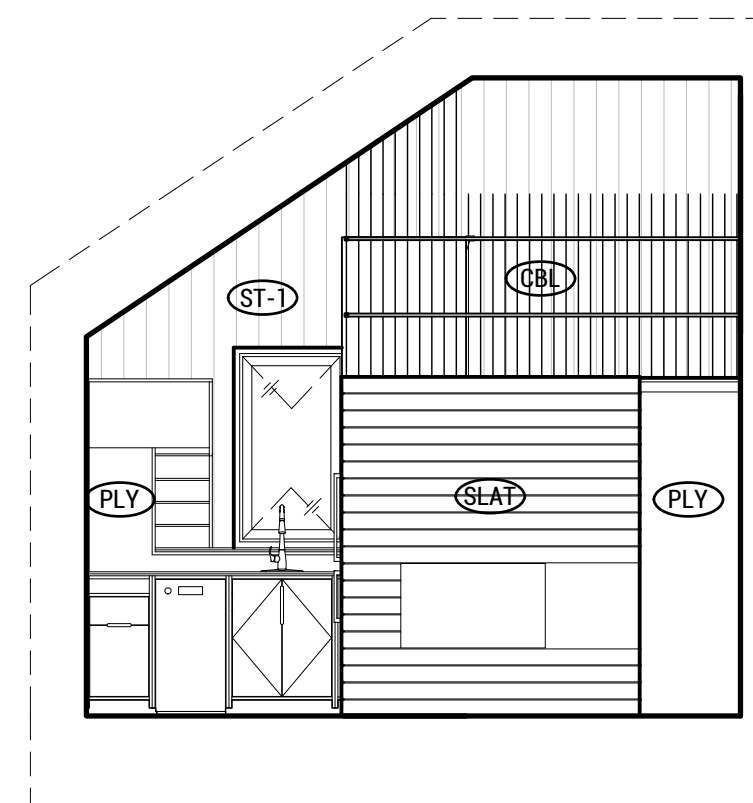
DRAWN BY: KV CHECKED BY: SA

I-202

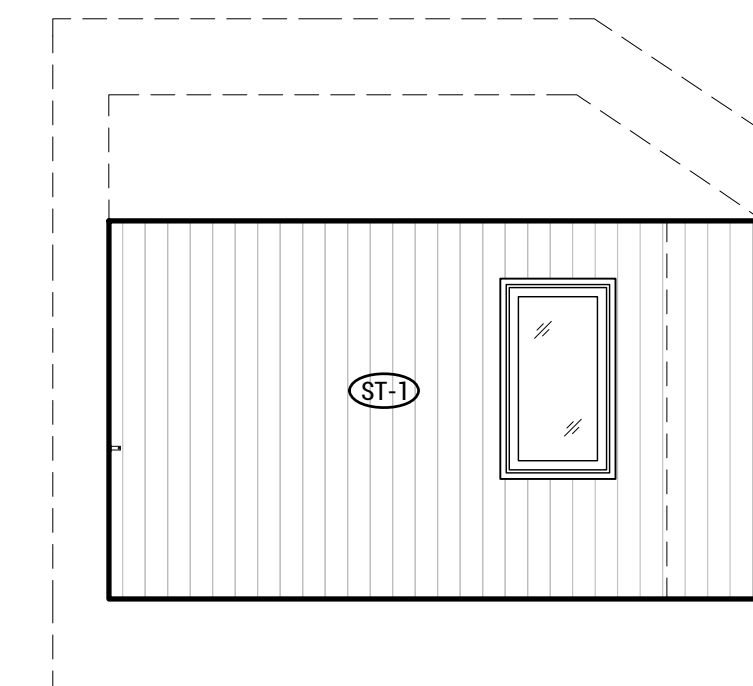
LOCATION	BASE	FLOOR		N. WALL		E. WALL		S. WALL		W. WALL		CEILING		REMARKS
		MAT'L	FIN	MAT'L	FIN	MAT'L	FIN	MAT'L	FIN	MAT'L	FIN	MAT'L	FIN	
T. H. LIVING	N/A	T-1	SEAL	CLT	ST-1	CLT	ST-1	CLT	ST-1	CLT	ST-1	CLT	ST-1	
KITCHEN	N/A	T-1	SEAL	CLT	ST-1	CLT	ST-1	CLT	ST-1	CLT	ST-1	CLT	ST-1	
LOFT	N/A		CLT	CC	CLT	ST-1	CBL	N/A	CBL	N/A	CLT	ST-1	CLT	
HALL	N/A	T-1	SEAL	CLT	ST-1	CLT	ST-1	CLT	ST-1	CLT	ST-1	CLT	ST-1	
BATH	T-2	T-2	SEAL	*	*	*	*	*	*	*	T-2	T-2	T-2	*SEE INT. ELEV.
CLUB LIVING	N/A	T-1	SEAL	CLT	ST-1	CLT	ST-1	CLT	ST-1	CLT	ST-1	CLT	ST-1	*SEE INT. ELEV.
KITCHEN	N/A	T-1	SEAL	*	*	*	*	*	*	*	N/A	CLT	CC	
DINING	N/A	T-1	SEAL	CLT	CC	N/A	N/A	CLT	CC	N/A	N/A	CLT	CC	
BATH	*	T-2	*	CLT	*	CLT	ST-1	CLT	ST-1	CLT	ST-1	CLT	ST-1	*SEE INT. ELEV.
MECH	N/A		CLT	CC	PLY	CC	PLY	CC	PLY	CC	PLY	CC	CC	

NOTE:  
SEE EXTERIOR ELEVATIONS FOR EXTERIOR FINISHES.

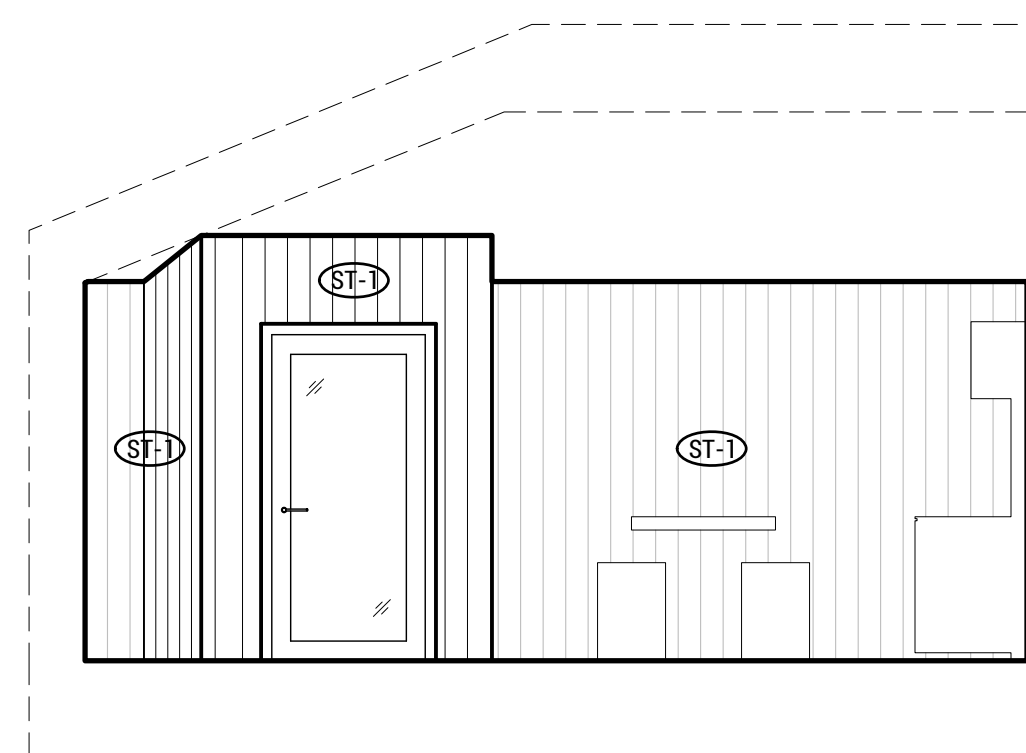
CSI DIVISION	SYMBOL	DESCRIPTION
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PLY		EXPOSED PLYWOOD
SEAL		CONCRETE SEALANT
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ST-1		WHITE WASH INTERIOR STAIN
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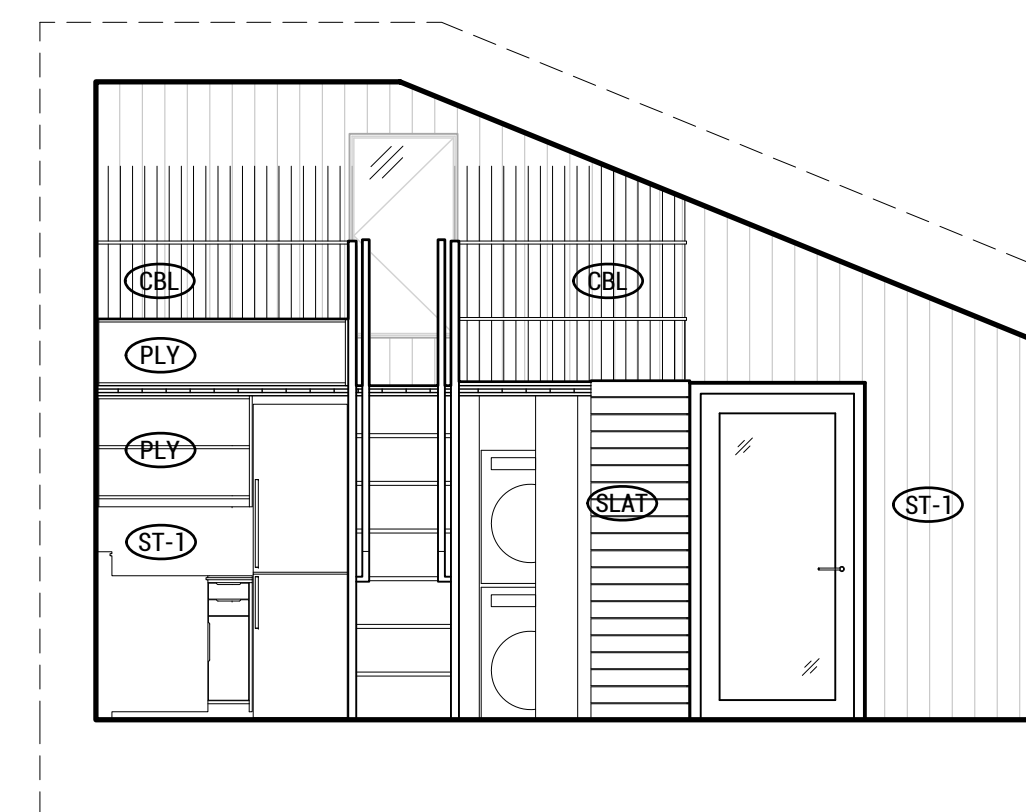
B5 WEST INTERIOR ELEVATION  
SCALE: 1/4"=1'-0"



B2 EAST INTERIOR ELEVATION  
SCALE: 1/4"=1'-0"

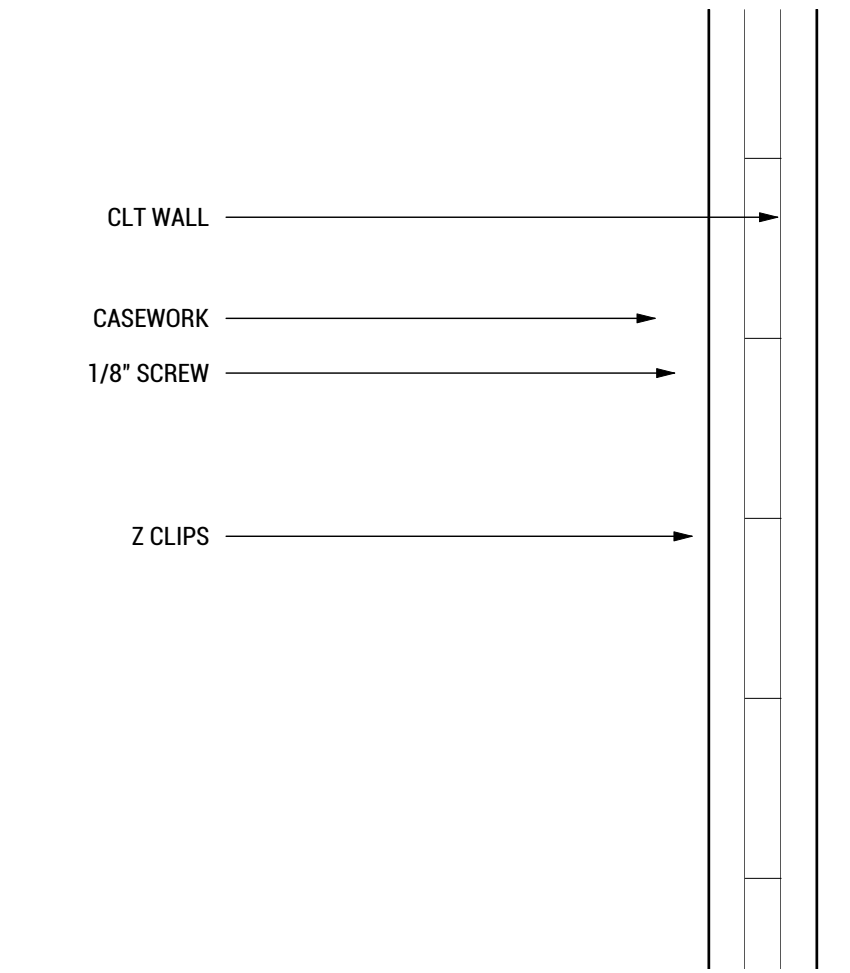
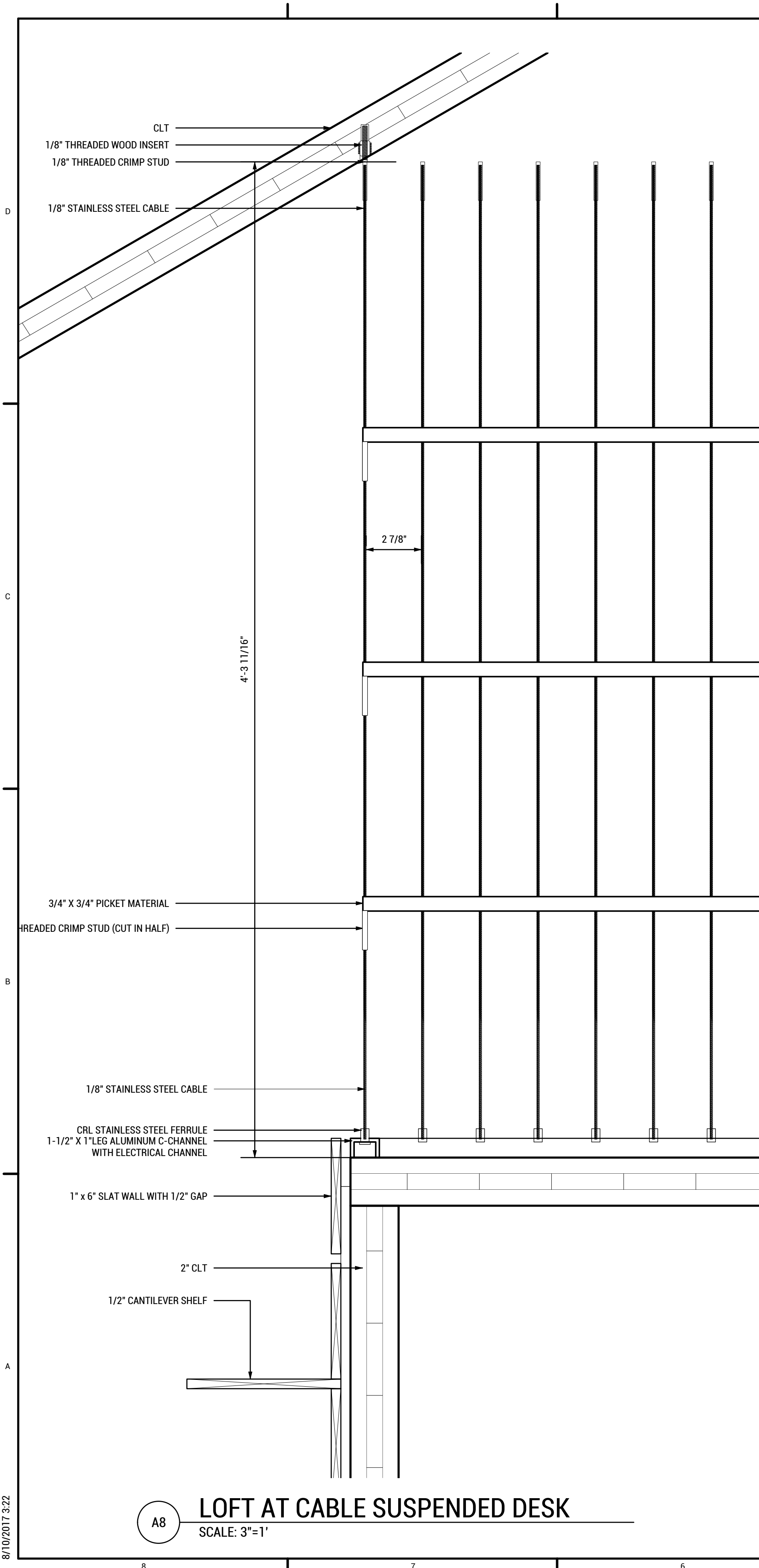


A5 SOUTH INTERIOR ELEVATION  
SCALE: 1/4"=1'-0"

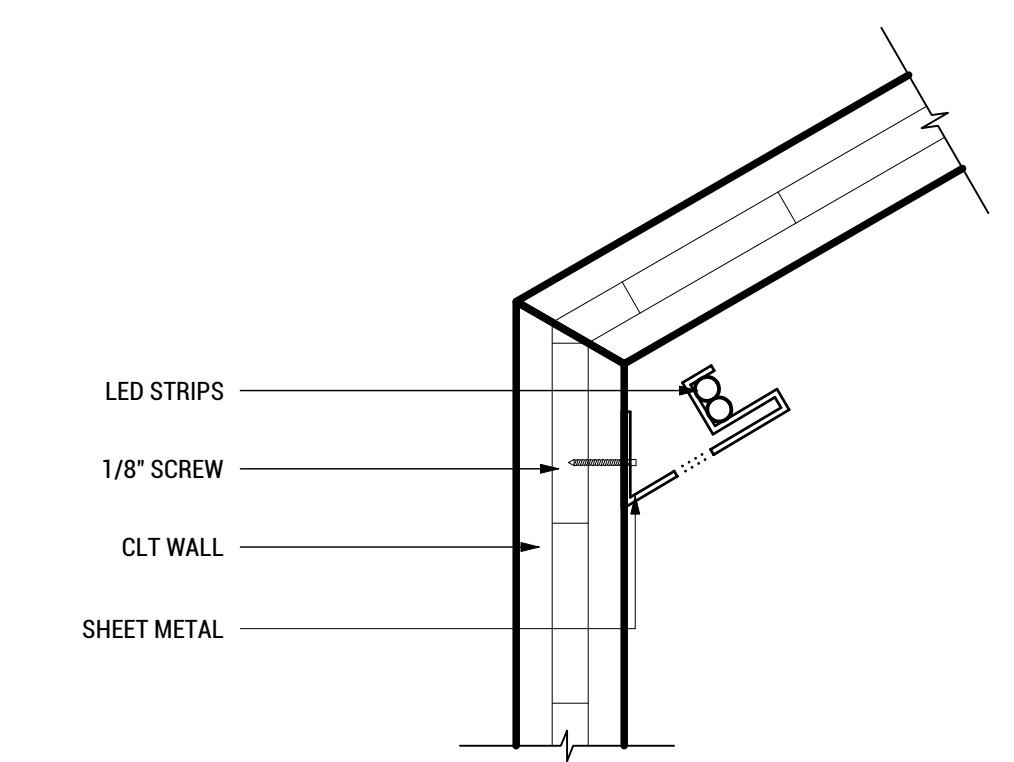


A2 NORTH INTERIOR ELEVATION  
SCALE: 1/4"=1'-0"





**C5 CASEWORK CONNECTION TO CLT**  
SCALE: 3"=1'



**B5 LIGHTING DETAIL**  
SCALE: 3"=1'

**A8 LOFT AT CABLE SUSPENDED DESK**  
SCALE: 3"=1'



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LOT NUMBER: LOT #107

SHEET TITLE:

**INTERIOR  
DETAILS**

DRAWN BY: TJ CHECKED BY: XX

**1-501**

8/10/2017 3:22



TEAM NAME: EN CITY  
 ADDRESS: [STREET]  
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MARK	DATE	DESCRIPTION
	08/10/2017	FINAL CD SET
	06/23/2017	100% CD SET CHANGES 2
	05/12/2017	100% CD SET CHANGES 1
	04/24/2017	100% CD SET
	02/17/2017	FINAL CHECKSET
	11/15/2016	80% DD SET

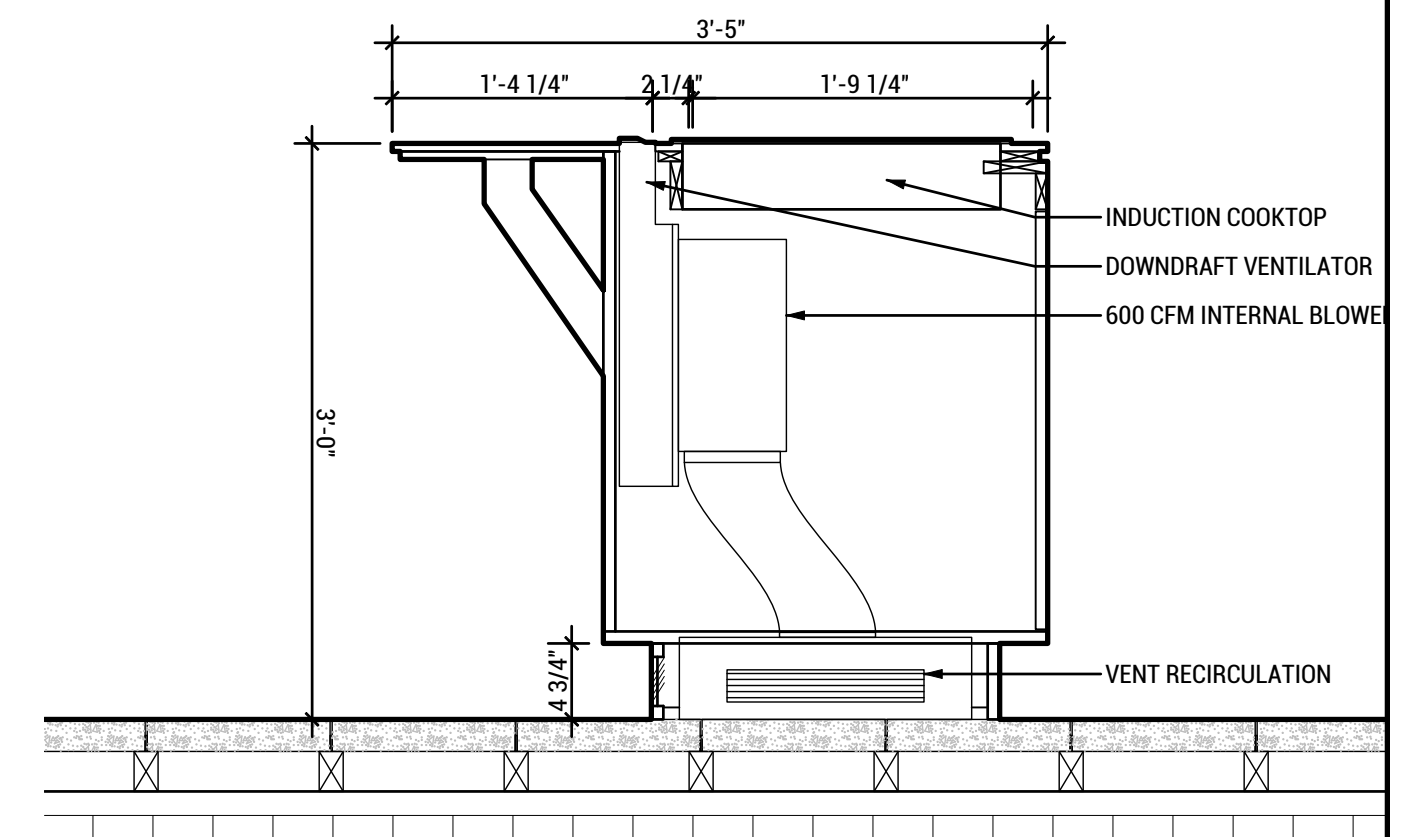
LOT NUMBER: LOT #107

SHEET TITLE:

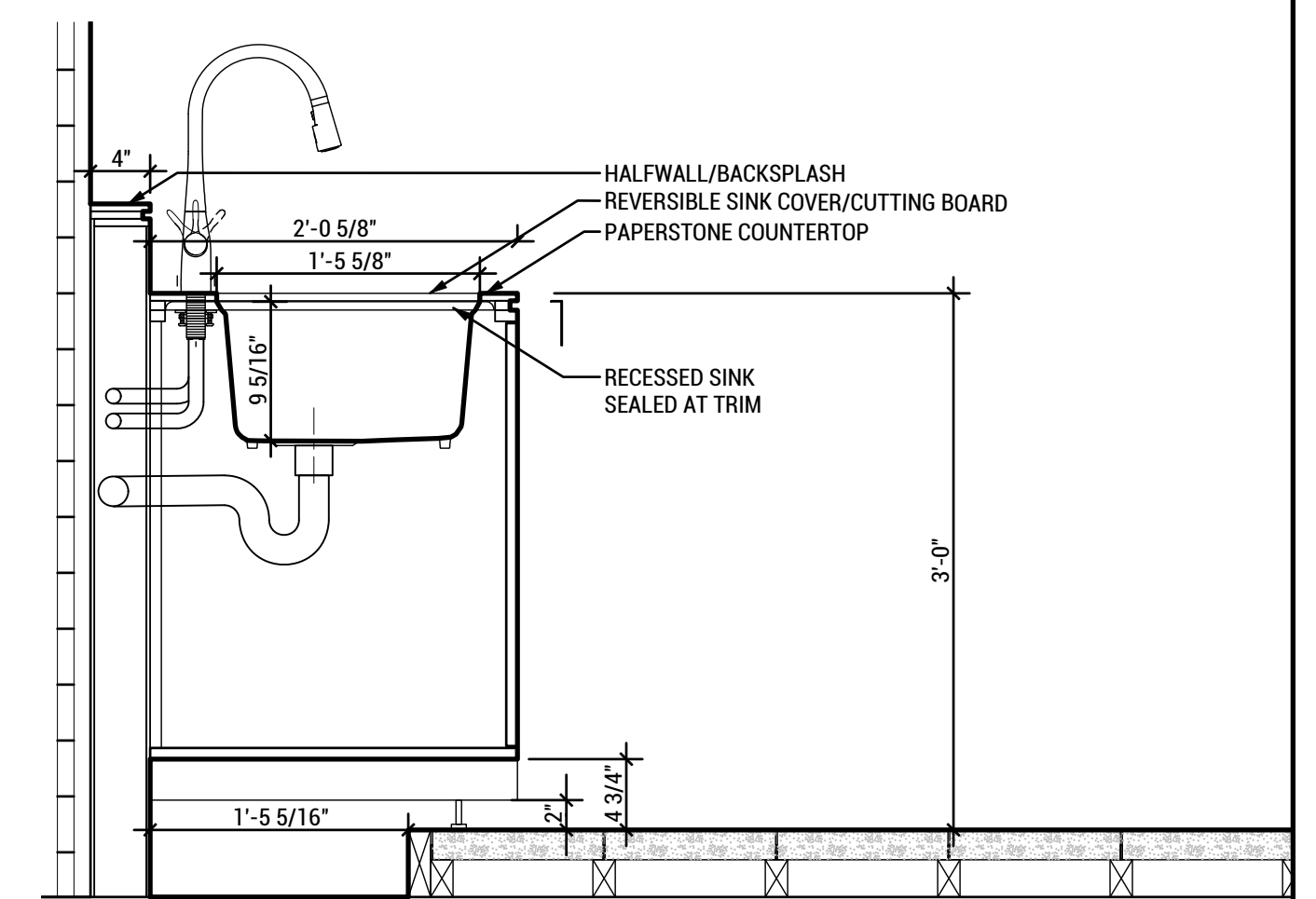
CASEWORK DETAIL

DRAWN BY: CHECKED BY:

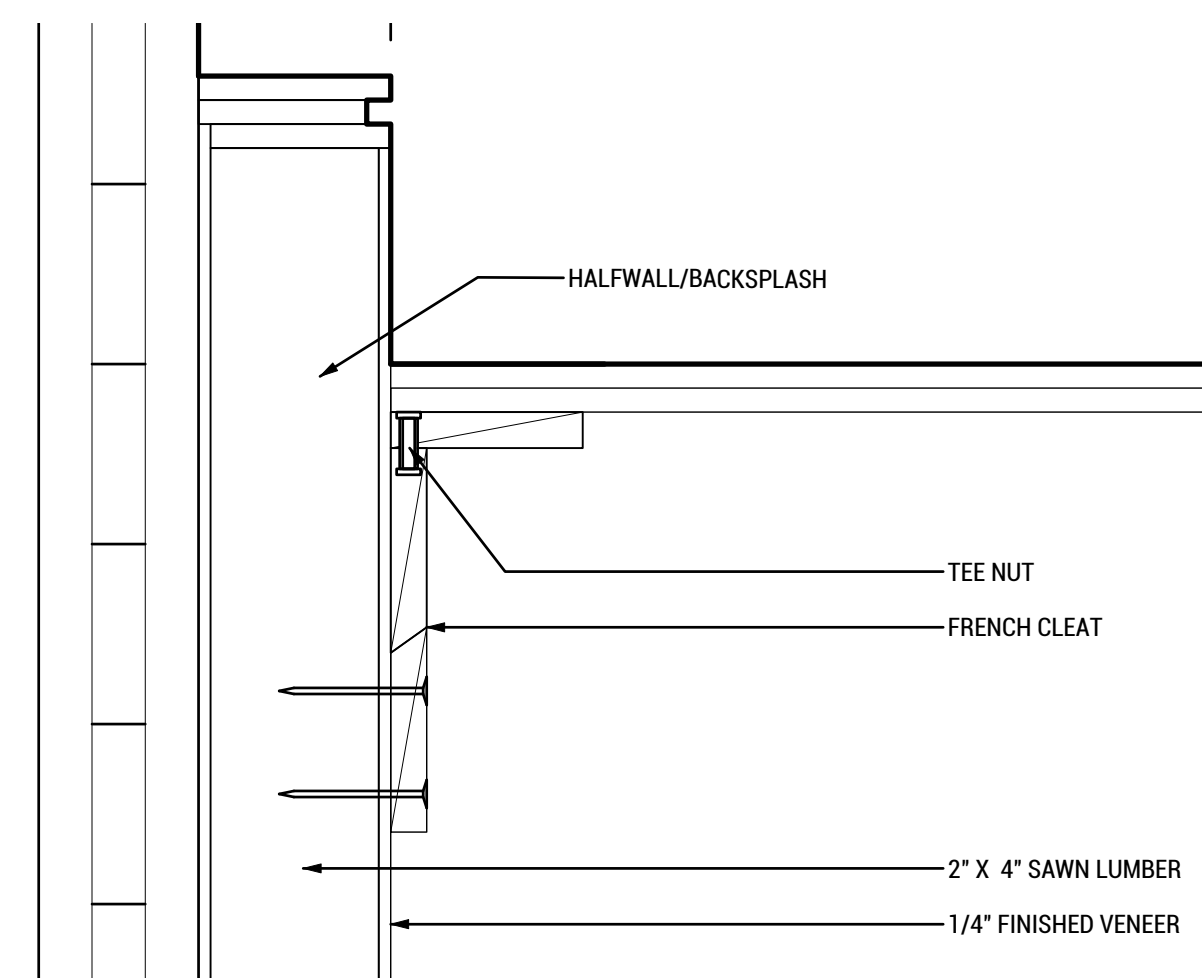
I-503



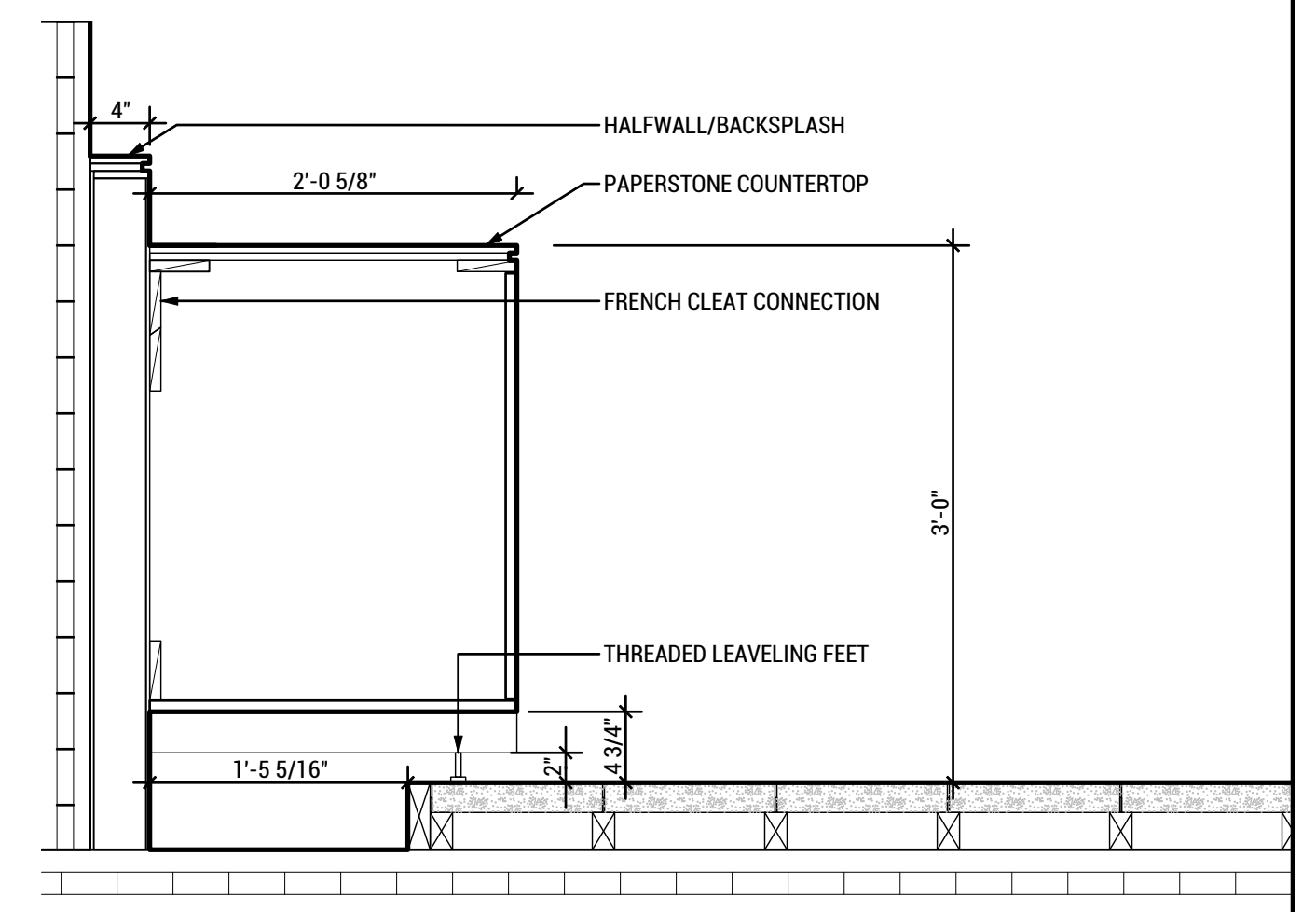
C2 CASEWORK @ CLUBHOUSE VENT  
 SCALE: 1"=1'-0"



B2 TYP. CASEWORK @ SINK  
 SCALE: 1"=1'-0"



A4 TYP. FRENCH CLEAT CONNECTION  
 SCALE: 3"=1'-0"



A2 TYP. CASEWORK  
 SCALE: 1"=1'-0"

7/10/2017 3:34



**INTERIOR RENDERING**  
 SCALE: NTS



TEAM NAME: EN CITY  
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CONSULTANTS:  
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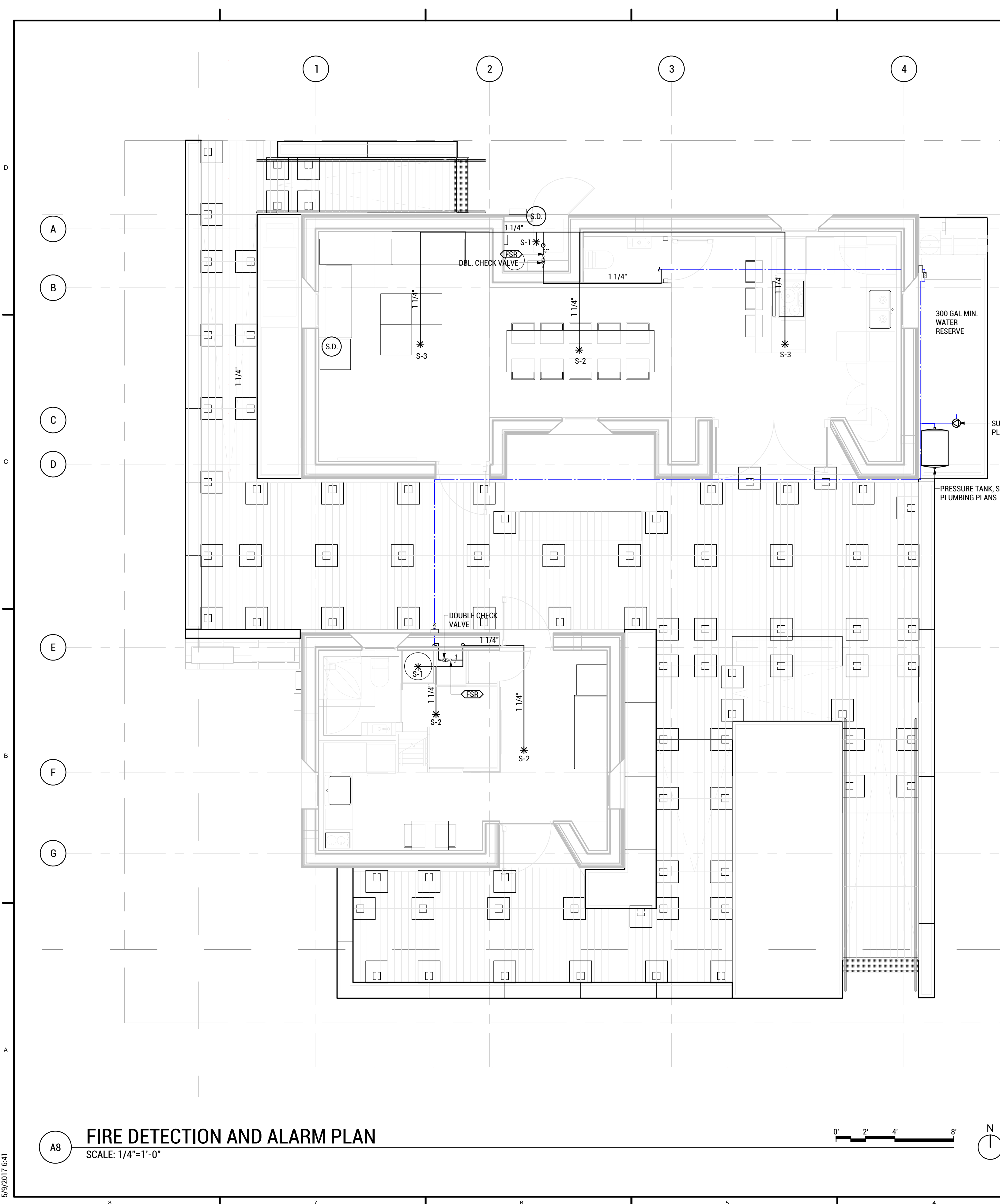
SHEET TITLE:

**TINY HOME  
 INTERIOR**

DRAWN BY: CHECKED BY:

**I-901**



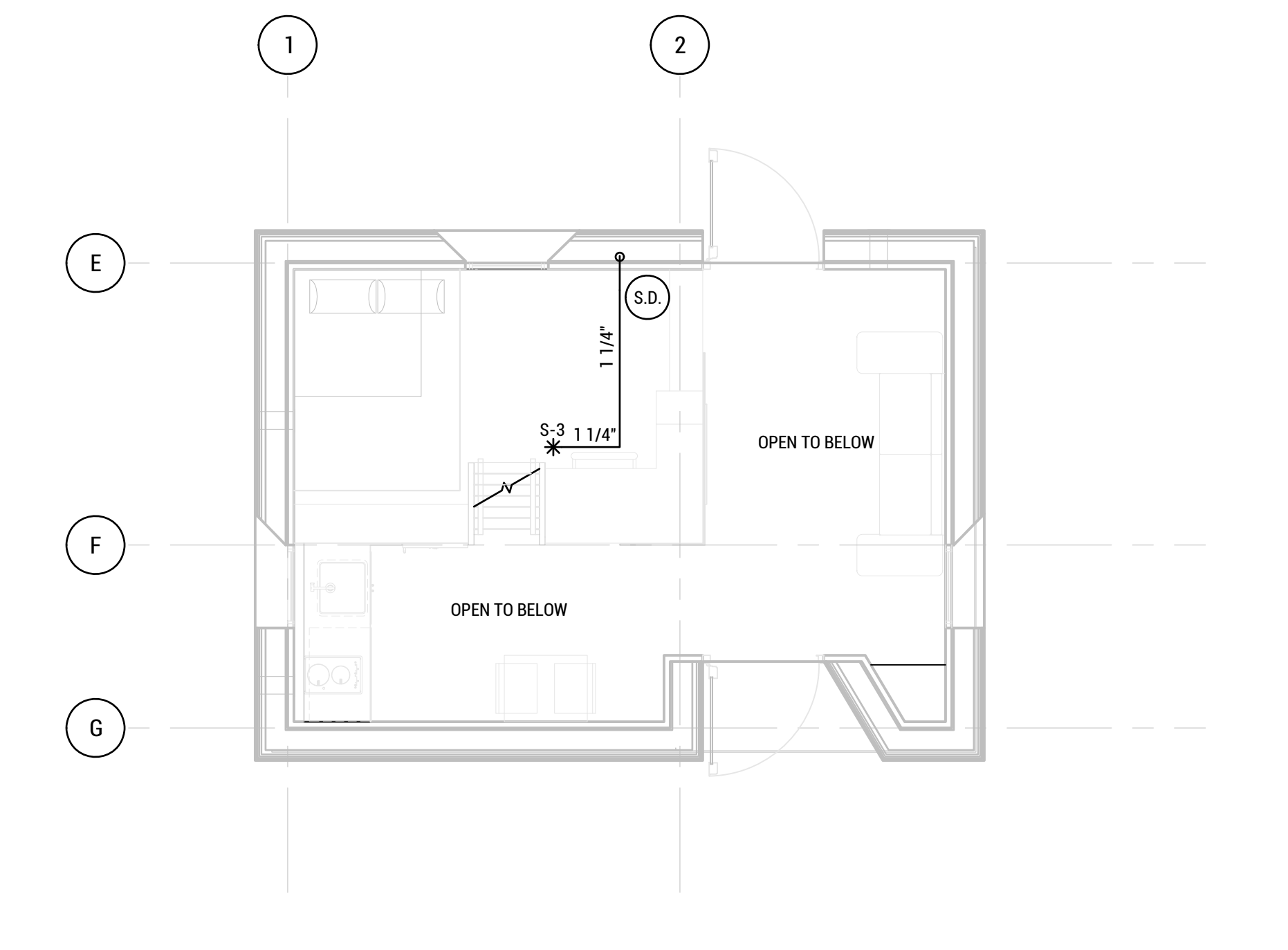


- SHEET LEGEND**
- \* SPRINKLER HEAD LOCATIONS
  - PIPE RISER
  - (S.D.) SMOKE DETECTOR
- SHEET NOTES**

1. SPRINKLER DESIGN AND LAYOUT IN ACCORDANCE WITH IRC 2015 P2904
2. FOR ALL PLASTIC PIPING, FOLLOW SPRINKLER MANUFACTURERS INSTALLATION INSTRUCTIONS (P2904.3).
3. NON-METALLIC PIPE AND TUBING SYSTEMS SHALL BE PROTECTED FROM EXPOSURE TO LIVING SPACE BY A LAYER OF NOT LESS THAN 3/8" THICK GYP. WB, 1/2" THICK PLYWOOD, OR OTHER MATERIAL HAVING A 15 MINUTE FIRE RATING. (P2904.3.1) PIPE PROTECTION IS NOT REQUIRED WHERE EXPOSED PIPING IS PERMITTED BY PIPE LISTING. (EXCEPTION NO. 2)
4. PUMP TO BE MOUNTED ON A PORTABLE SKID AND TESTED AND DEMONSTRATED TO BE FUNCTIONAL AT MIN. REQ'D PRESSURE PRIOR TO ARRIVING AT SOLAR DECATHLON SITE.
5. ALL VALVES BETWEEN THE SUPPLY AND THE FIRE SPRINKLER SYSTEM SHALL BE OF A TYPE THAT CAN BE LOCKED OPEN DURING THE DURATION OF THE PUBLIC EXHIBIT.
6. 1-1/4" PIPE WAS SELECTED FOR FIRE SPRINKLER SYSTEM TO REDUCE PRESSURE LOSS AND REDUCE NUMBER OF PIPE SIZES IN PROJECT.

FIRE SPRINKLER SCHEDULE										
TYPE MARK	QTY.	LOCATION	CSI NO.	DESCRIPTION	MANUFACTURER	MODEL	COVERAGE	MIN. GPM	MIN. PSI	TEMP. °F
S-1	1	TINY HOME - MECH	21 13 13	PENDENT FIRE SPRINKLER	GLOBE	GL4910	12FTX12FT	13	7	155
S-2	2	TINY HOME - HALL	21 13 13	MILLENNIUM FLUSH PENDENT FIRE SPRINKLER	GLOBE	GL4248	14FTX14FT	11	7.2	155
S-3	2	CLUBHOUSE - DINNING	21 13 13	PENDENT FIRE SPRINKLER	GLOBE	GL4910	16FTX16FT	14	8.2	155
S.D.	2	CLUBHOUSE	28 31 46	SMOKE ALARM*	SIMPLEXGRINNELL	4098-9601				
FSR	1	TINY HOME	28 31 00	FIRE SPRINKLER TEST AND DRAIN ASSEMBLY (1-1/4" RESI-RISER)	TYCO	54-360-1-012				

\*SMOKE ALARMS TO BE WIRED TO BUILDING POWER (R314.6)



**A3 FIRE DETECTION AND ALARM PLAN**  
SCALE: 1/4"=1'-0"

**A8 FIRE DETECTION AND ALARM PLAN**  
SCALE: 1/4"=1'-0"



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LOT NUMBER: LOT #107

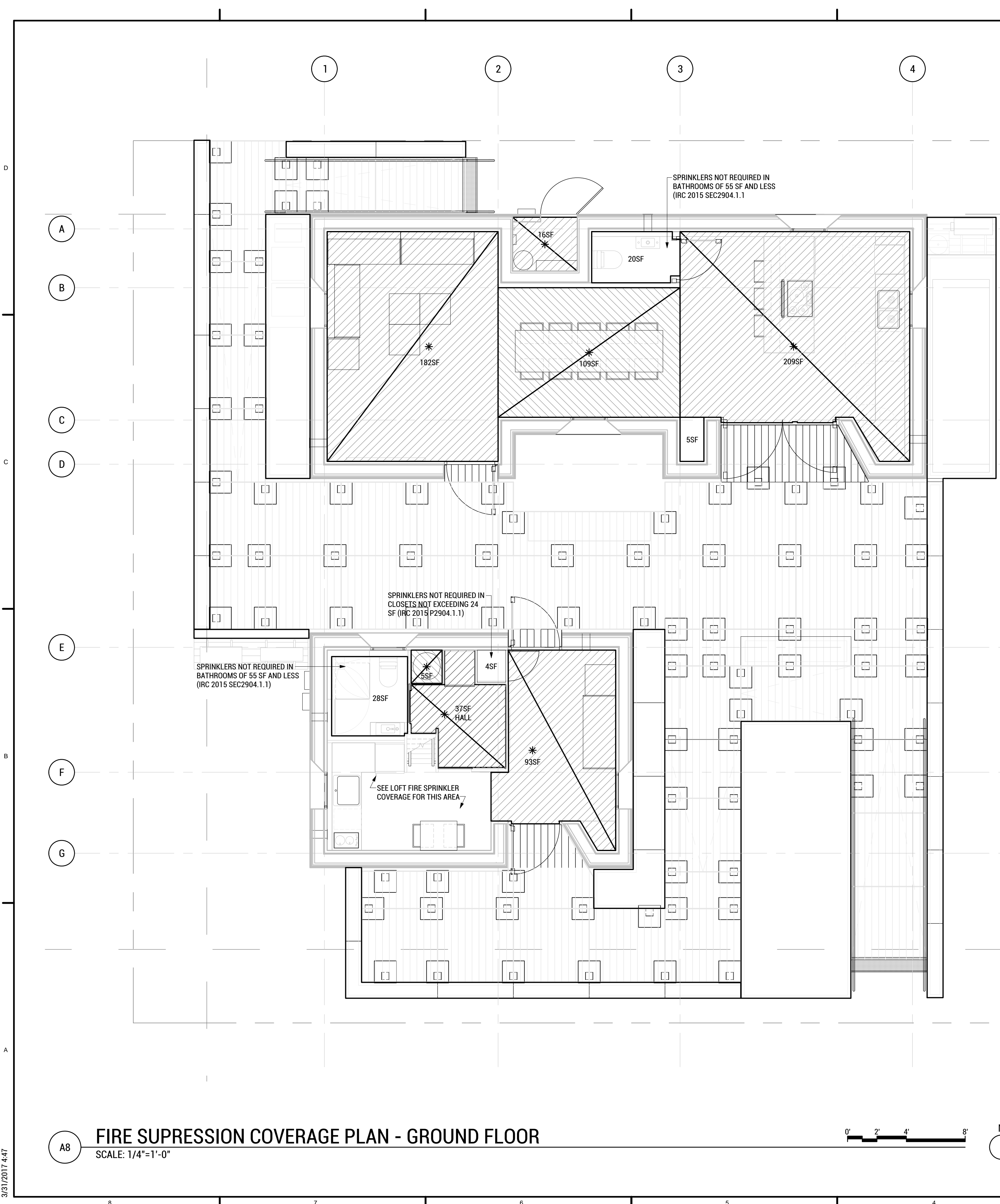
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**FIRE DETECTION & ALARM PLAN**

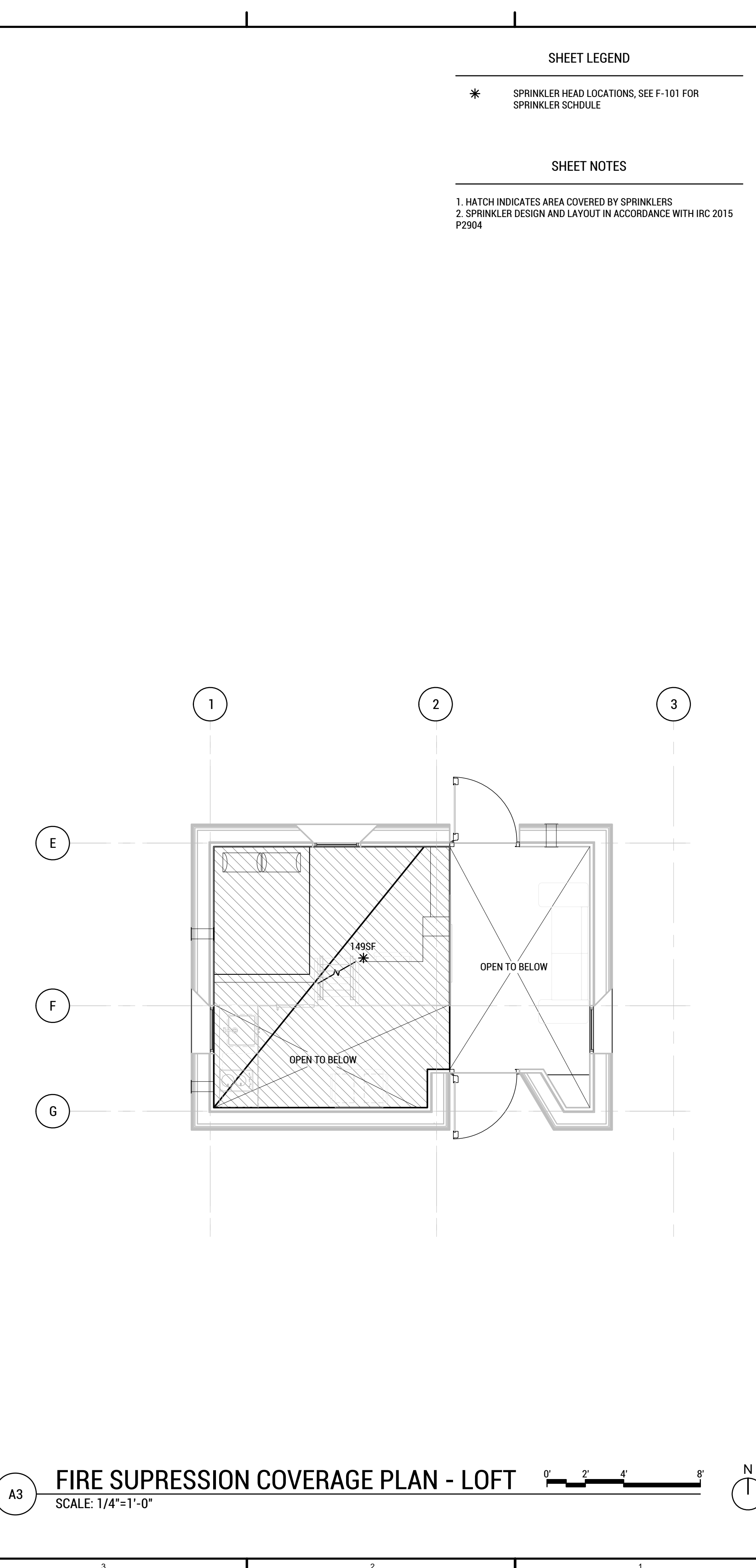
DRAWN BY: TG CHECKED BY: TG

**F-101**

5/9/2017 6:41



**A8 FIRE SUPPRESSION COVERAGE PLAN - GROUND FLOOR**  
SCALE: 1/4"=1'-0"



**A3 FIRE SUPPRESSION COVERAGE PLAN - LOFT**  
SCALE: 1/4"=1'-0"

**SHEET LEGEND**

\* SPRINKLER HEAD LOCATIONS, SEE F-101 FOR SPRINKLER SCHEDULE

**SHEET NOTES**

1. HATCH INDICATES AREA COVERED BY SPRINKLERS
2. SPRINKLER DESIGN AND LAYOUT IN ACCORDANCE WITH IRC 2015 P2904



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LOT NUMBER: LOT #107

SHEET TITLE:

**FIRE SUPPRESSION COVERAGE PLAN**

DRAWN BY: TG CHECKED BY: DG

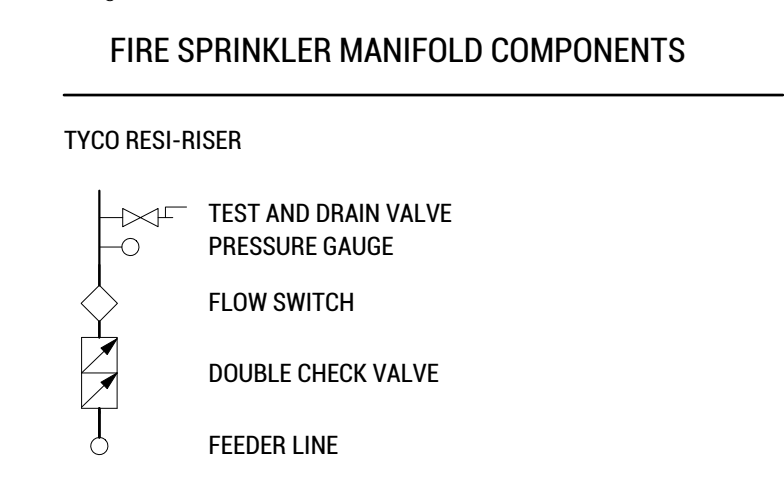
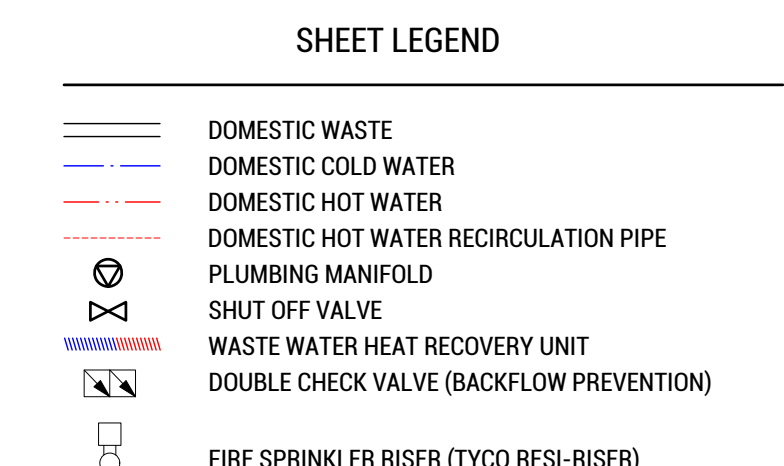
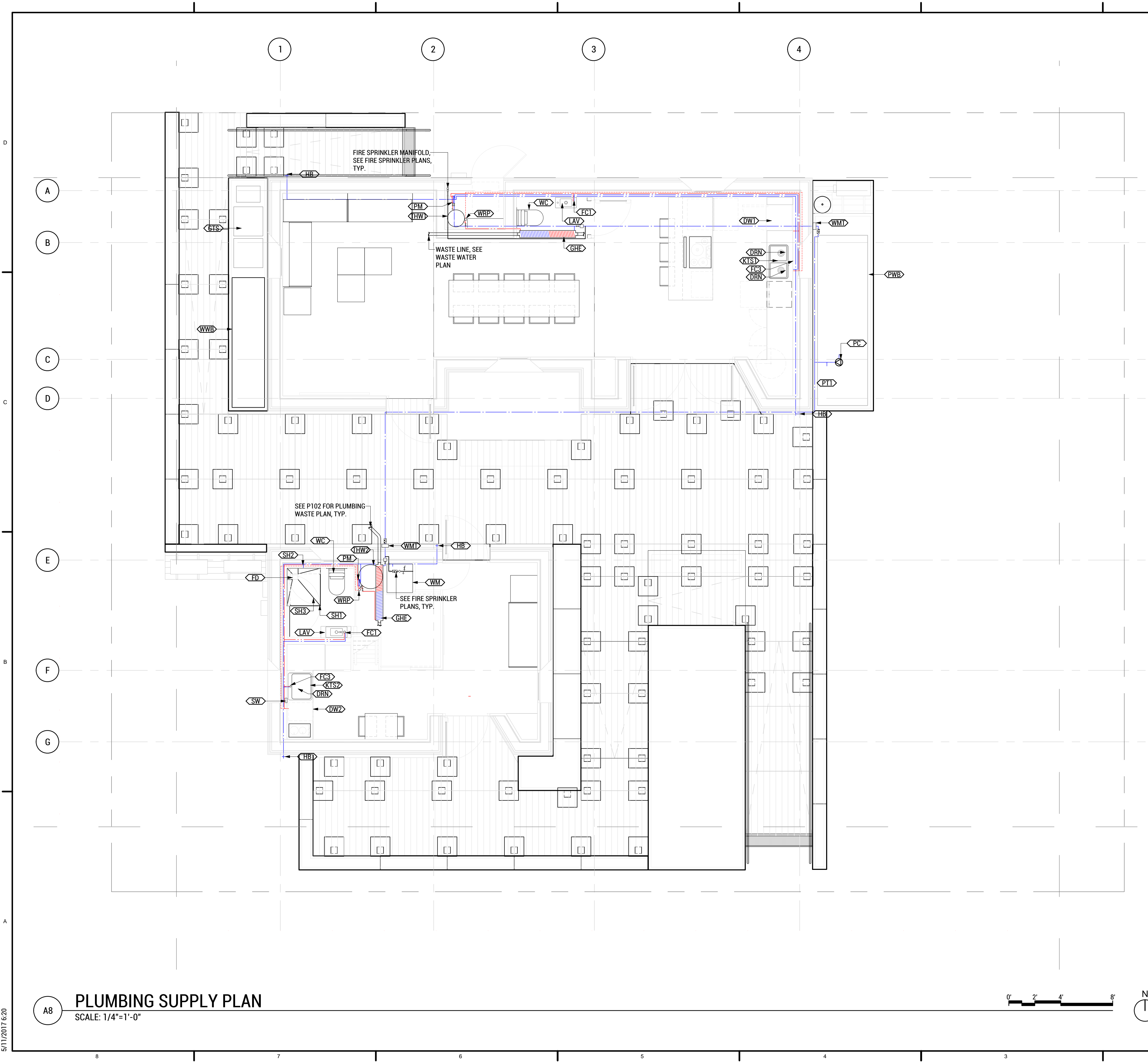
**F-102**

3/31/2017 4:47









**SHEET KEYNOTES**

TYPE MARK	DESCRIPTION
SH1	SHOWER SCREEN (HIDEAWAY DOORS)
DW1	DISHWASHER - SS FINISH
DW2	DISHWASHER - COMPACT - SS FINISH
WM	WASHING MACHINE
WMT	WATER METER
PM	PLUMBING MANIFOLD - MINIBLOC
HB	3/4" HOSE BIB (AIR BLEED TO BE PURCHASED SEPERATE)
PC	1.5HP CENTRIFUGAL PUMP
THW1	19.9 GALLON TANK HOT WATER HEATER (W/HEAT TRAP SET)
THW2	43 GALLON HEAT PUMP WATER HEATER - SANC02 (W/HEAT TRAP SET)
PT1	20 GALLON PRESSURE TANK
GHE	GREYWATER HEAT EXCHANGE UNIT
SH2*	SHOWER HEAD, HOSE, AND HANDLE - WATERSENSE LABELED - 1.75GPM - SILV
FD	LINEAR FLOOR DRAIN FOR SHOWER
WC	WATER CLOSET - FLOOR MOUNT
LAV	LAVATORY - WALL MOUNTED
KTS1	SINK - UNDER COUNTER, 2 BASIN - RIVERBY
KTS2	SINK - UNDER COUNTER, 1 BASIN - RIVERBY
DRN	KITCHEN SINK DRAIN W/STRAINER (SS) - DUOSTRAINER
SH3	SHOWER BASE (GRFC)
FC1	FAUCET - W/LAV
FC2	PULLDOWN KITCHEN SINK FAUCET W/SPRAY NOZZLE - SIMPLICE (SS)
FC3	GREYWATER TREATMENT SYSTEM
PWB	POTABLE WATER BLADDER (1500GAL)
WWB	WASTE WATER BLADDER (600GAL)
WRP	HOT WATER RECIRCULATION PUMP - COMFORT PM BASIC PUMP



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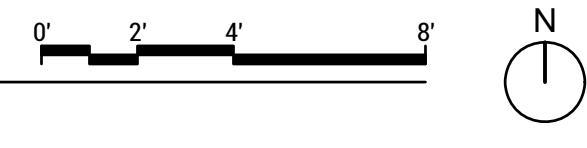
SHEET TITLE:

**PLUMBING SUPPLY PLAN**

DRAWN BY: TG CHECKED BY: AM

**P-101**

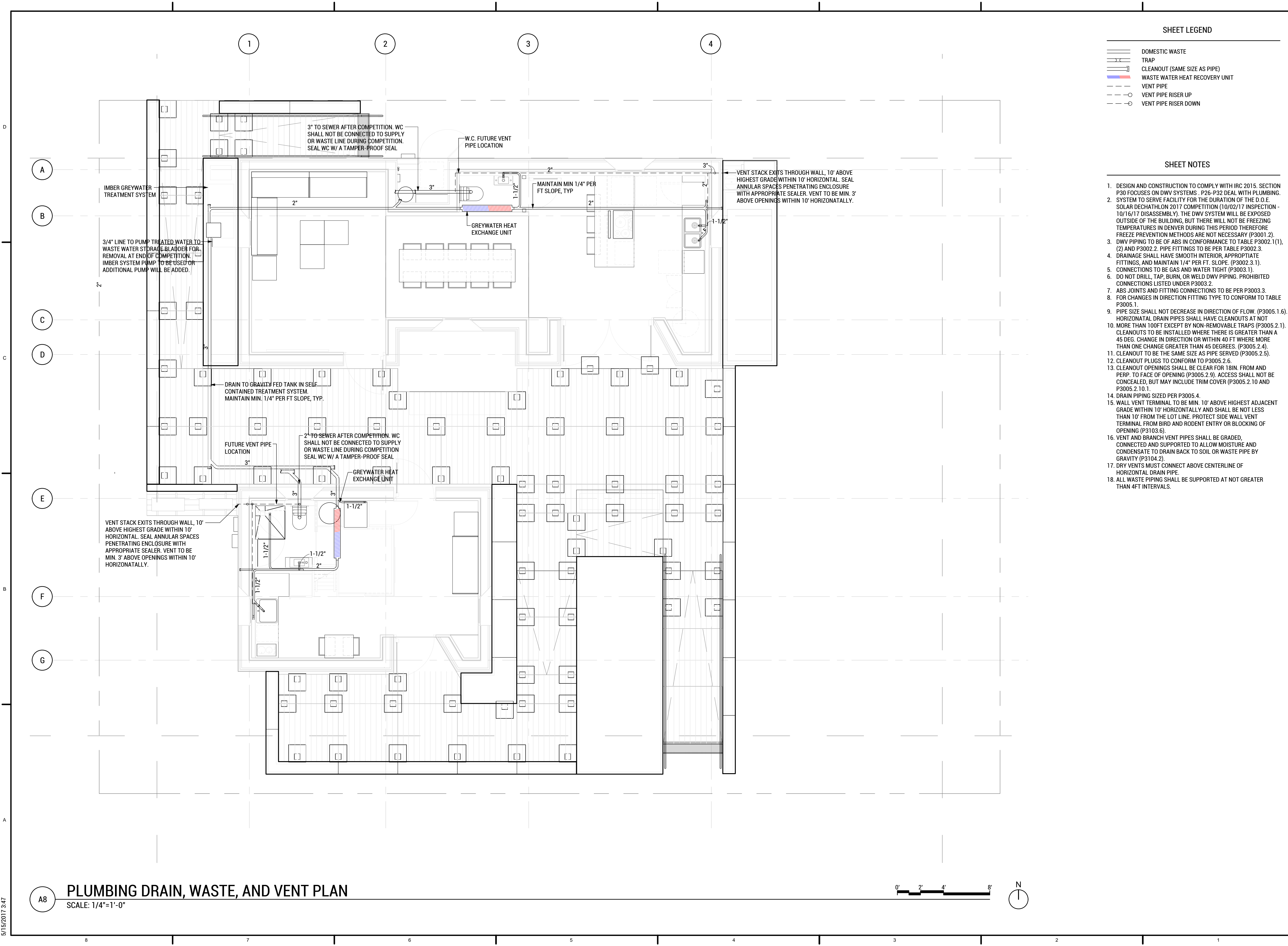
**PLUMBING SUPPLY PLAN**  
 SCALE: 1/4"=1'-0"



\*SHOWER MIXING VALVE SHALL BE PRESSURE BALANCED, THERMOSTATIC MIXING, OR A COMBINATION OF THE TWO, WITH THE HIGH LIMIT SET AT 120 DEG. F TO PREVENT SCALDING.

5/11/2017 6:20

A8



**SHEET LEGEND**

	DOMESTIC WASTE
	TRAP
	CLEANOUT (SAME SIZE AS PIPE)
	WASTE WATER HEAT RECOVERY UNIT
	VENT PIPE
	VENT PIPE RISER UP
	VENT PIPE RISER DOWN

- SHEET NOTES**
- DESIGN AND CONSTRUCTION TO COMPLY WITH IRC 2015. SECTION P30 FOCUSES ON DWV SYSTEMS. P26-P32 DEAL WITH PLUMBING SYSTEM TO SERVE FACILITY FOR THE DURATION OF THE D.O.E. SOLAR DECATHLON 2017 COMPETITION (10/02/17 INSPECTION - 10/16/17 DISASSEMBLY). THE DWV SYSTEM WILL BE EXPOSED OUTSIDE OF THE BUILDING, BUT THERE WILL NOT BE FREEZING TEMPERATURES IN DENVER DURING THIS PERIOD THEREFORE FREEZE PREVENTION METHODS ARE NOT NECESSARY (P3001.2).
  - DWV PIPING TO BE OF ABS IN CONFORMANCE TO TABLE P3002.1(1), (2) AND P3002.2. PIPE FITTINGS TO BE PER TABLE P3002.3.
  - DRAINAGE SHALL HAVE SMOOTH INTERIOR, APPROPRIATE FITTINGS, AND MAINTAIN 1/4" PER FT. SLOPE. (P3002.3.1).
  - CONNECTIONS TO BE GAS AND WATER TIGHT (P3003.1).
  - DO NOT DRILL, TAP, BURN, OR WELD DWV PIPING. PROHIBITED CONNECTIONS LISTED UNDER P3003.2.
  - ABS JOINTS AND FITTING CONNECTIONS TO BE PER P3003.3.
  - FOR CHANGES IN DIRECTION FITTING TYPE TO CONFORM TO TABLE P3005.1.
  - PIPE SIZE SHALL NOT DECREASE IN DIRECTION OF FLOW. (P3005.1.6). HORIZONTAL DRAIN PIPES SHALL HAVE CLEANOUTS AT NOT MORE THAN 100FT EXCEPT BY NON-REMOVABLE TRAPS (P3005.2.1). CLEANOUTS TO BE INSTALLED WHERE THERE IS GREATER THAN A 45 DEG. CHANGE IN DIRECTION OR WITHIN 40 FT WHERE MORE THAN ONE CHANGE GREATER THAN 45 DEGREES. (P3005.2.4).
  - CLEANOUT TO BE THE SAME SIZE AS PIPE SERVED (P3005.2.5).
  - CLEANOUT PLUGS TO CONFORM TO P3005.2.6.
  - CLEANOUT OPENINGS SHALL BE CLEAR FOR 18IN. FROM AND PERP. TO FACE OF OPENING (P3005.2.9). ACCESS SHALL NOT BE CONCEALED, BUT MAY INCLUDE TRIM COVER (P3005.2.10 AND P3005.2.10.1).
  - DRAIN PIPING SIZED PER P3005.4.
  - WALL VENT TERMINAL TO BE MIN. 10' ABOVE HIGHEST ADJACENT GRADE WITHIN 10' HORIZONTALLY AND SHALL BE NOT LESS THAN 10' FROM THE LOT LINE. PROTECT SIDE WALL VENT TERMINAL FROM BIRD AND RODENT ENTRY OR BLOCKING OF OPENING (P3103.6).
  - VENT AND BRANCH VENT PIPES SHALL BE GRADED, CONNECTED AND SUPPORTED TO ALLOW MOISTURE AND CONDENSATE TO DRAIN BACK TO SOIL OR WASTE PIPE BY GRAVITY (P3104.2).
  - DRY VENTS MUST CONNECT ABOVE CENTERLINE OF HORIZONTAL DRAIN PIPE.
  - ALL WASTE PIPING SHALL BE SUPPORTED AT NOT GREATER THAN 4FT INTERVALS.



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LOT NUMBER: LOT #107

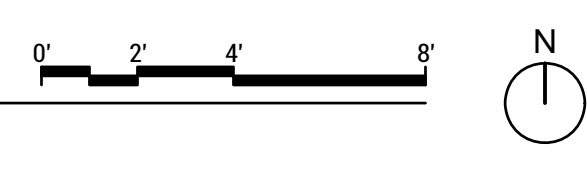
SHEET TITLE:

**PLUMBING  
 DRAINAGE, WASTE,  
 AND VENT PLAN**

DRAWN BY: TG CHECKED BY: AM

**P-102**

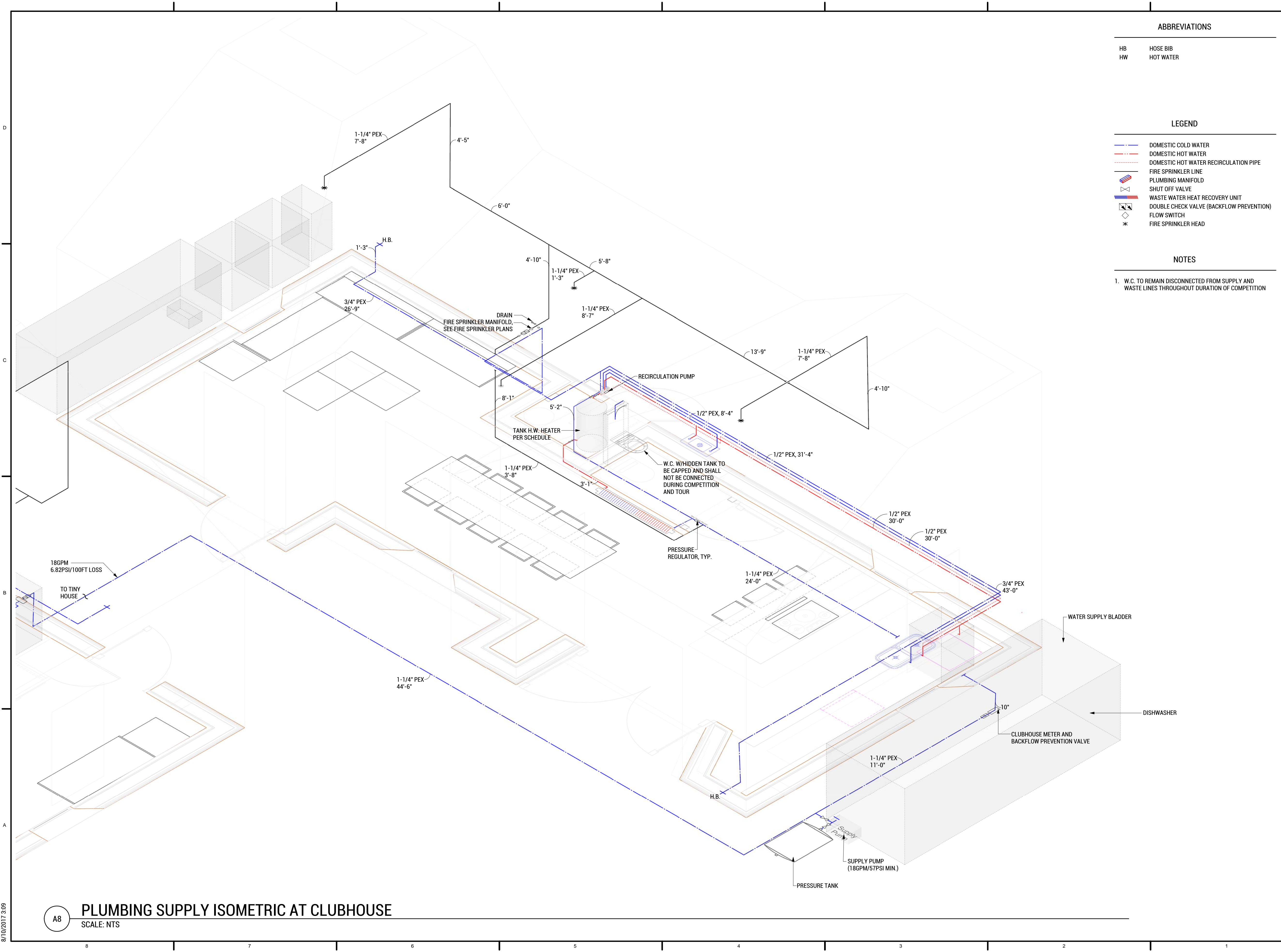
**PLUMBING DRAIN, WASTE, AND VENT PLAN**  
 SCALE: 1/4"=1'-0"



5/15/2017 3:47

A8





- ABBREVIATIONS**
- HB HOSE BIB
  - HW HOT WATER
- LEGEND**
- DOMESTIC COLD WATER
  - DOMESTIC HOT WATER
  - DOMESTIC HOT WATER RECIRCULATION PIPE
  - FIRE SPRINKLER LINE
  - PLUMBING MANIFOLD
  - SHUT OFF VALVE
  - WASTE WATER HEAT RECOVERY UNIT
  - DOUBLE CHECK VALVE (BACKFLOW PREVENTION)
  - FLOW SWITCH
  - \* FIRE SPRINKLER HEAD
- NOTES**
- W.C. TO REMAIN DISCONNECTED FROM SUPPLY AND WASTE LINES THROUGHOUT DURATION OF COMPETITION



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LOT NUMBER: LOT #107

SHEET TITLE:  
**PLUMBING SUPPLY ISOMETRIC DIAGRAM - CLUBHOUSE**  
 DRAWN BY: TG CHECKED BY: AM  
**P-901**

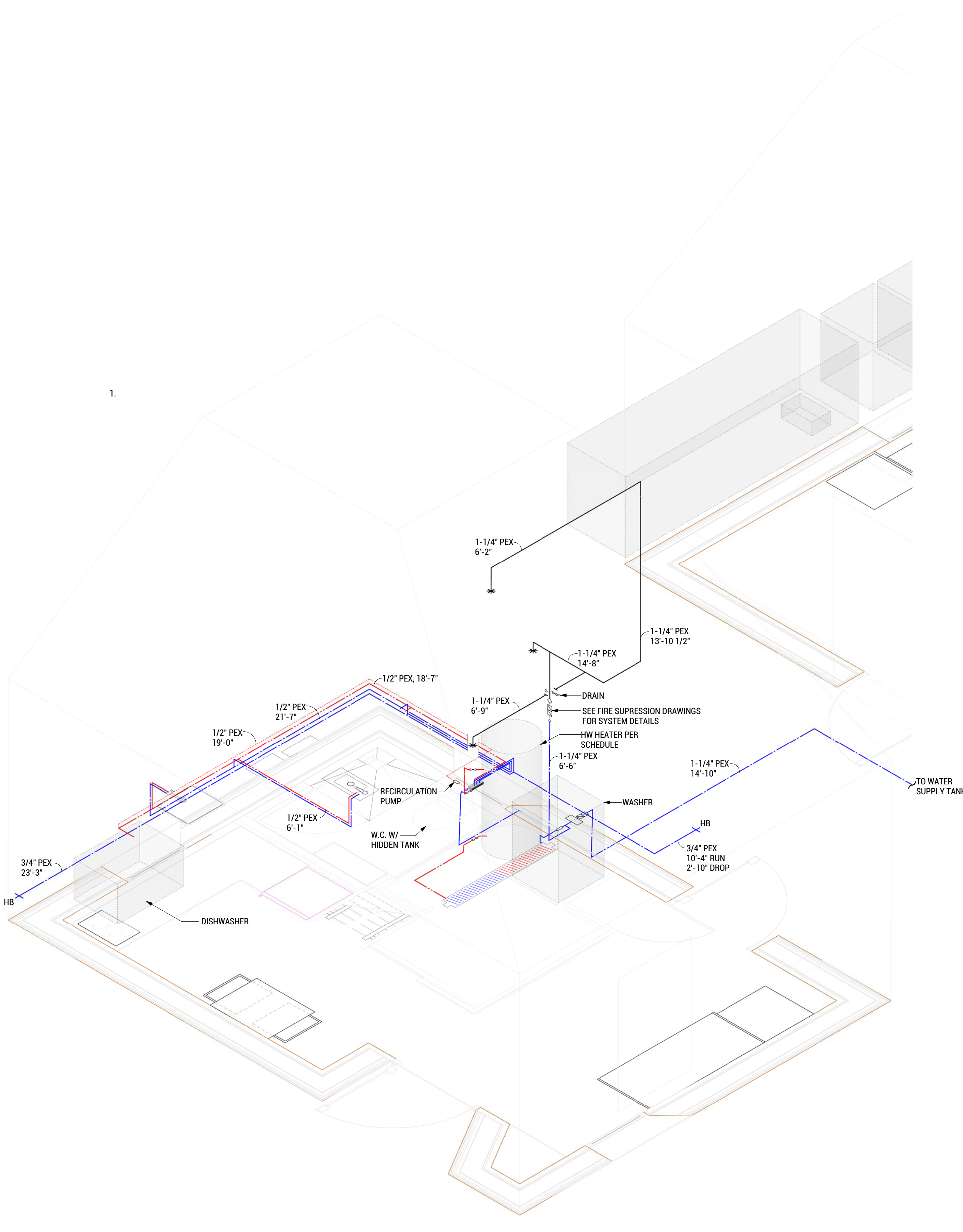
8/10/2017 3:09

**PLUMBING SUPPLY ISOMETRIC AT CLUBHOUSE**  
 SCALE: NTS



D  
C  
B  
A

- ABBREVIATIONS**
- HB HOSE BIB
  - HW HOT WATER
- LEGEND**
- DOMESTIC COLD WATER
  - DOMESTIC HOT WATER
  - DOMESTIC HOT WATER RECIRCULATION PIPE
  - FIRE SPRINKLER LINE
  - PLUMBING MANIFOLD
  - SHUT OFF VALVE
  - WASTE WATER HEAT RECOVERY UNIT
  - DOUBLE CHECK VALVE (BACKFLOW PREVENTION)
  - FLOW SWITCH
  - \* FIRE SPRINKLER HEAD
- NOTES**
1. W.C. TO REMAIN DISCONNECTED FROM SUPPLY AND WASTE LINES THROUGHOUT DURATION OF COMPETITION



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LOT NUMBER: LOT #107

SHEET TITLE:

**PLUMBING SUPPLY ISOMETRIC DIAGRAM - TINY HOUSE**

DRAWN BY: TG CHECKED BY: AM

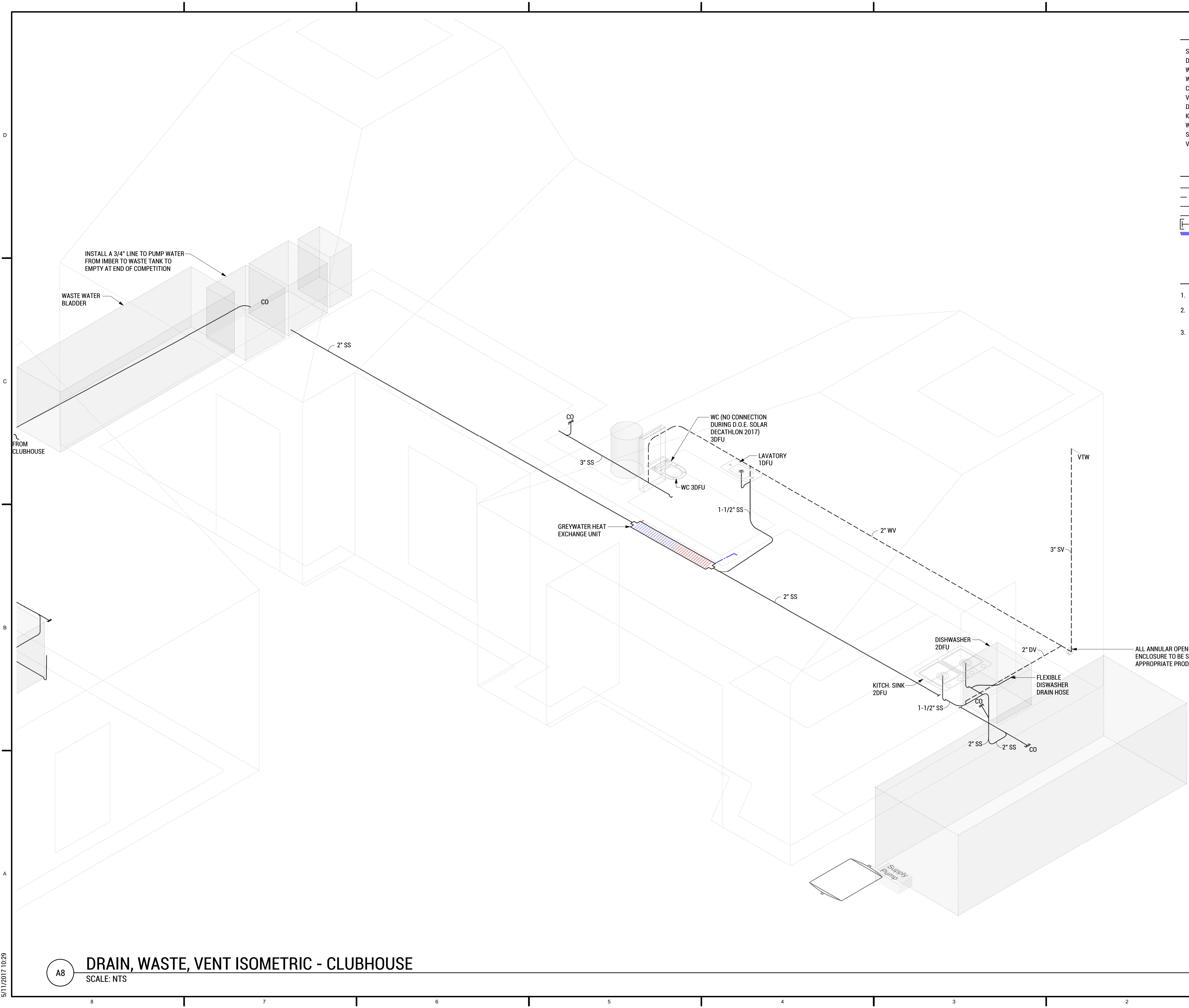
**P-902**

**PLUMBING SUPPLY ISOMETRIC AT TINY HOUSE**  
 SCALE: NTS

8/10/2017 3:09

8 7 6 5 4 3 2 1





- ABBREVIATIONS**
- SS SANITARY SEWER
  - DV DRY VENT
  - WV WET VENT
  - WM WASHING MACHINE
  - CO CLEANOUT
  - VTW VENT THROUGH WALL
  - DFU DRAINAGE FIXTURE UNITS
  - KITCH KITCHEN
  - WC WATER CLOSET
  - SV STACK VENT
  - VTR VENT TO ROOF
- LEGEND**
- ABS DRAIN PIPE
  - - - ABS VENT PIPE
  - PEE TRAP
  - CONTINUATION SYMBOL
  - CLEANOUT
  - WASTE WATER HEAT RECOVERY UNIT

- NOTES**
- W.C. TO REMAIN DISCONNECTED FROM SUPPLY AND WASTE LINES THROUGHOUT DURATION OF COMPETITION
  - PIPE TO MAINTAIN 1/4" SLOPE MIN. SECURE WITH SUPPORT TO MAINTAIN SLOPE AND PREVENT WARPING AT 4FT MAX. SPACING.
  - CLEANOUTS TO BE ACCESSIBLE AND FREE OF OBSTRUCTIONS WITHIN 18IN FROM AND PERPENDICULAR TO THE OPENING.



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LOT NUMBER: LOT #107

SHEET TITLE:

**DWV ISOMETRIC  
 DIAGRAM  
 CLUBHOUSE**

DRAWN BY: TG CHECKED BY: AM

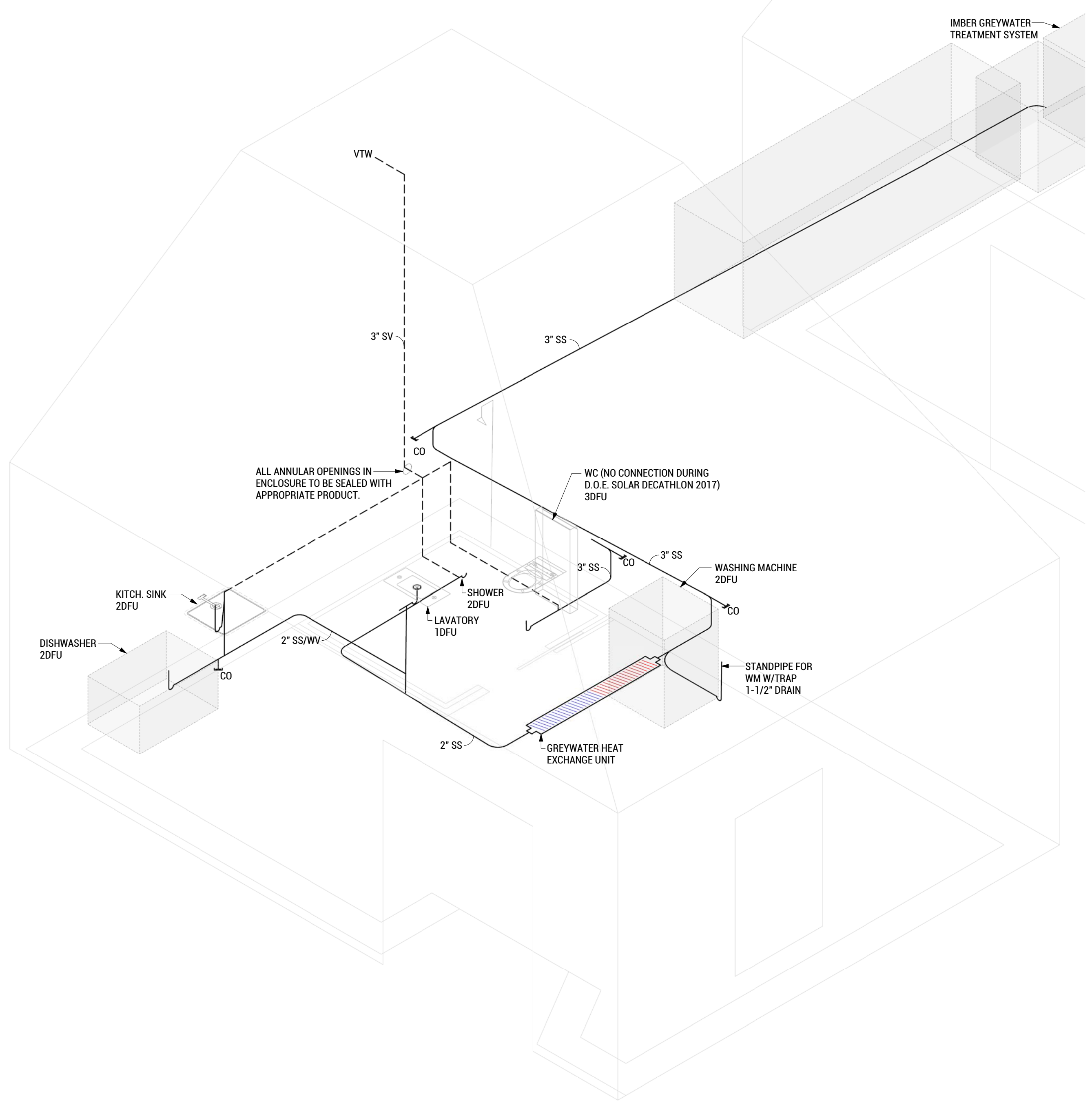
**P-903**

**DRAIN, WASTE, VENT ISOMETRIC - CLUBHOUSE**  
 SCALE: NTS

5/11/2017 10:29

D  
C  
B  
A

5/11/2017 10:29



- ABBREVIATIONS**
- SS SANITARY SEWER
  - DV DRY VENT
  - WV WET VENT
  - WM WASHING MACHINE
  - CO CLEANOUT
  - VTW VENT THROUGH WALL
  - DFU DRAINAGE FIXTURE UNITS
  - KITCH KITCHEN
  - WC WATER CLOSET
  - SV STACK VENT
  - VTR VENT TO ROOF
- LEGEND**
- ABS DRAIN PIPE
  - - - ABS VENT PIPE
  - ⌋ PEE TRAP
  - ⌋ CONTINUATION SYMBOL
  - ⌋ CLEANOUT
  - ▭ WASTE WATER HEAT RECOVERY UNIT

- NOTES**
1. W.C. TO REMAIN DISCONNECTED FROM SUPPLY AND WASTE LINES THROUGHOUT DURATION OF COMPETITION
  2. PIPE TO MAINTAIN 1/4" SLOPE MIN. SECURE WITH SUPPORT TO MAINTAIN SLOPE AND PREVENT WARPING AT 4FT MAX. SPACING.
  3. CLEANOUTS TO BE ACCESSIBLE AND FREE OF OBSTRUCTIONS WITHIN 18IN FROM AND PERPENDICULAR TO THE OPENING.



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 TODD BEYREUTHER, P.E.  
 WSU ENVIRONMENTAL HEALTH & SAFETY  
 KATERRA INC.

**CLIENT:**  
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	06/23/2017	100% CD SET CHANGES 2
	05/12/2017	100% CD SET CHANGES 1
	04/24/2017	100% CD SET
	02/17/2017	FINAL CHECKSET
	11/15/2016	80% DD SET

LOT NUMBER: LOT #107

SHEET TITLE:

**DWV ISOMETRIC  
 DIAGRAM TINY  
 HOUSE**

DRAWN BY: TG CHECKED BY: AM

**P-904**

**DRAIN, WASTE, VENT ISOMETRIC - TINY HOME**  
 SCALE: NTS

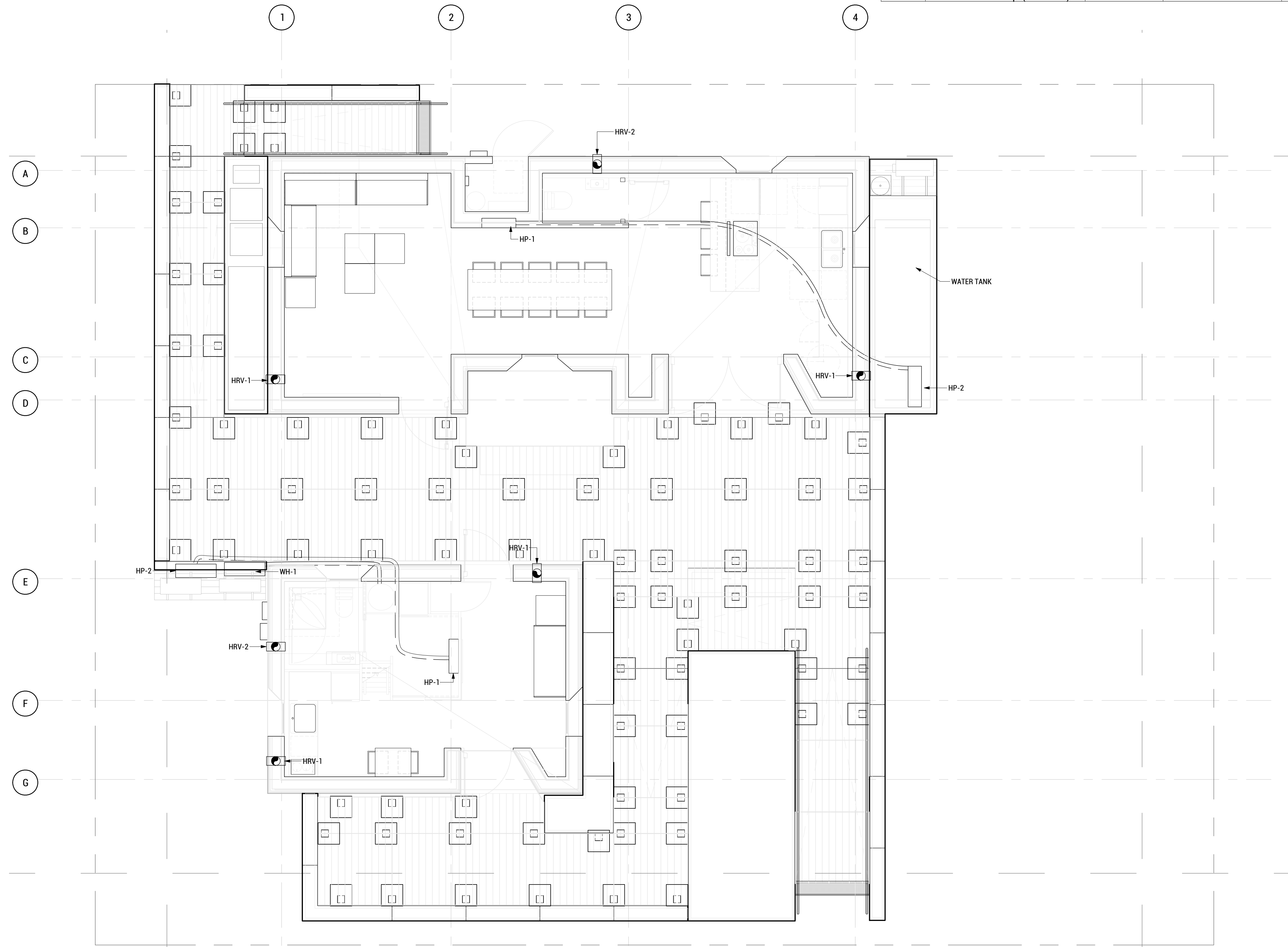
A6

8 7 6 5 4 3 2 1



**MECHANICAL SCHEDULE**

Mark	Description	Manufacturer	Model	Count	Width	Height	Depth
HRV-1	Paired Thru-wall HRV	Lunos	e2	4	6"	6"	12"
HRV-2	Single Thru-wall HRV	Lunos	eGO	2	6"	6"	12"
HP-1	Mini-split Heat Pump (Indoor)	Mitsubishi	MFZ-KJ09NA-U1	2	29-17/32"	23-5/8"	8-15/32"
HP-2	Mini-split Heat Pump (Outdoor)	Mitsubishi	MUFZ-KJ09NAHZ-U1	2	31-1/2"	21-5/8"	11-1/4"
WH-1	Water Heat Pump (Outdoor)	Sanden	GUS-A45HPA	1	34-3/4"	29-3/4"	11"



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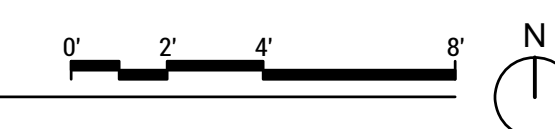
**SHEET TITLE:**

**MECH PLAN,  
SCHEDULE, NOTES**

DRAWN BY: DG CHECKED BY: TG

**M-101**

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



5/2/2017 5:27



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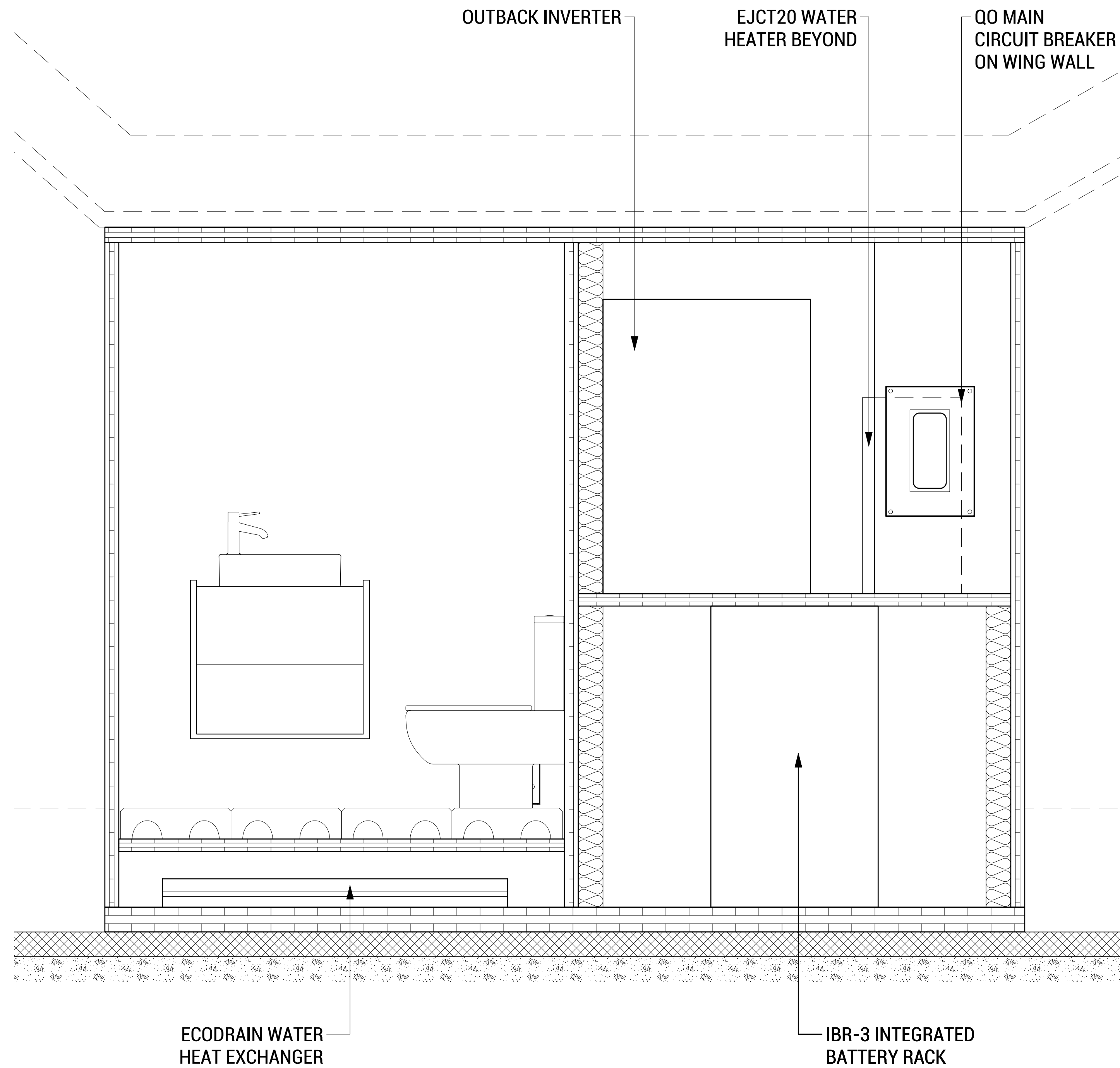
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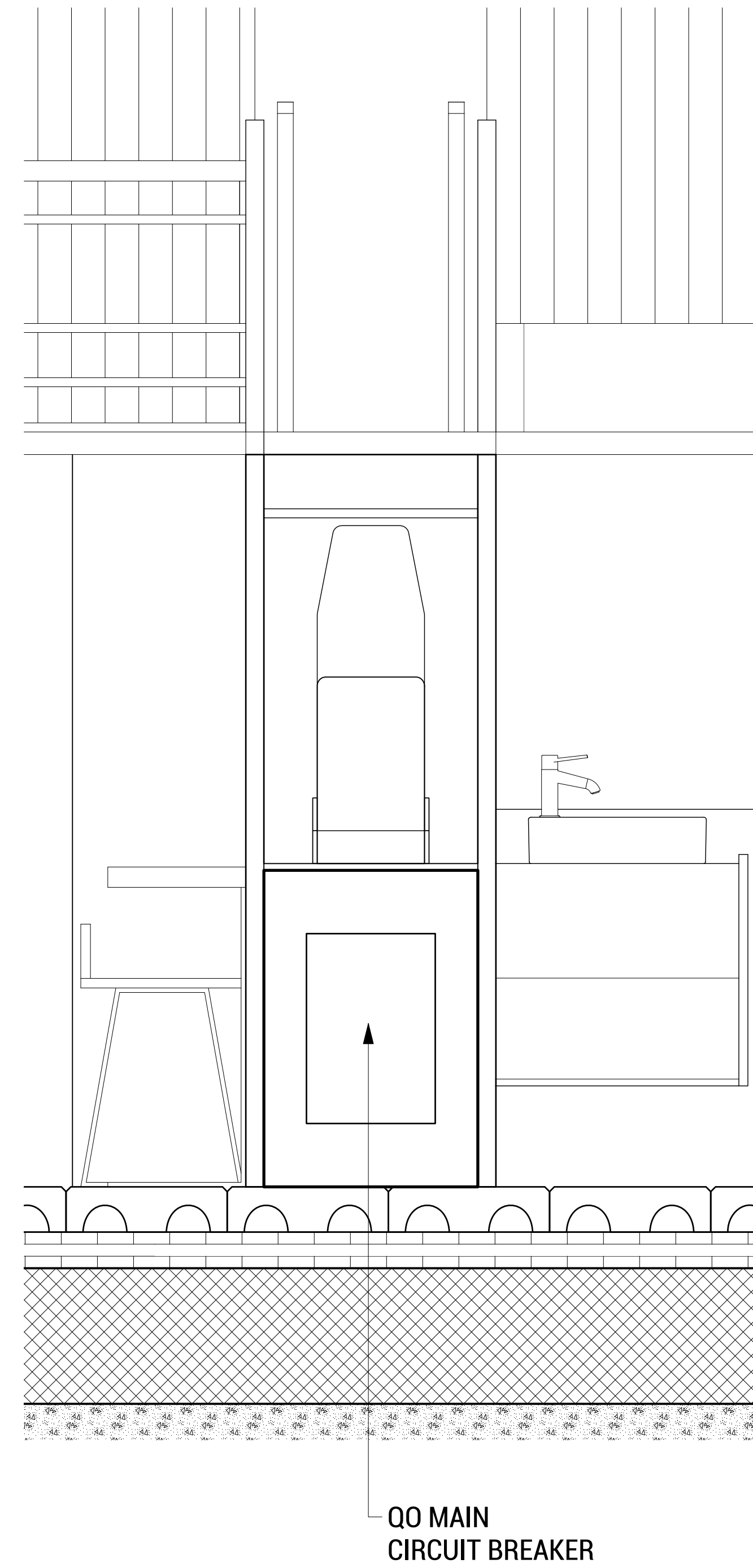
CLUBHOUSE MECHANICAL COMPARTMENT ELEVATION

DRAWN BY: SA CHECKED BY: TG

M-201



A8 CLUBHOUSE MECHANICAL ELEVATION  
SCALE: 1"=1'-0"



A3 TINYHOME MECHANICAL ELEVATION  
SCALE: 1/2"=1'-0"

ELECTRICAL CODE NOTES

ELECTRICAL CODES REFERENCED: 2017 SOLAR DECATHLON BUILDING CODE SECTION 6, IRC 2015 CHAPTERS 33-42, AND NFPA 70 NEC (2014).

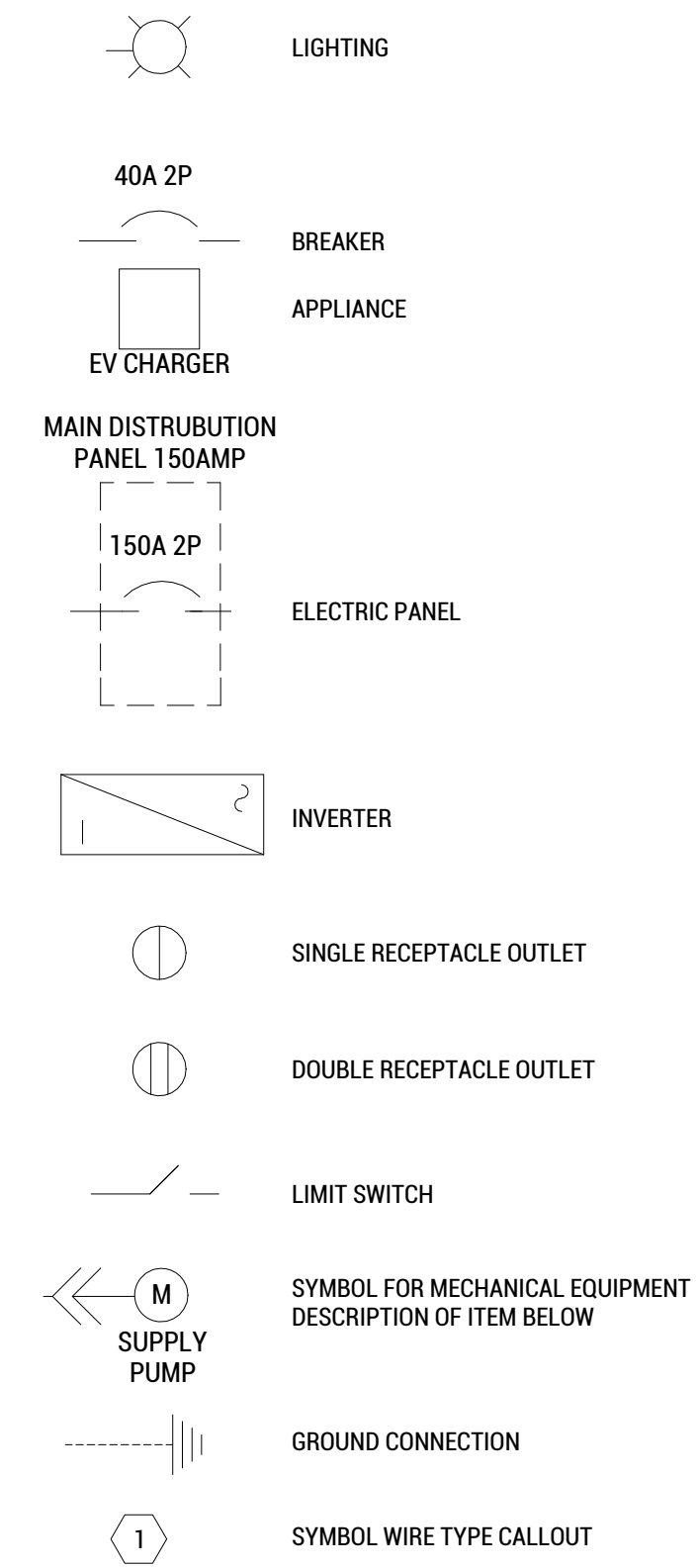
1. ALL 125V, 15- AND 20- AMPERE RECEPTACLES ARE TO BE TAMPER-RESISTANT.
2. EXTERIOR RECEPTACLES MUST HAVE ENCLOSURES SUITABLE FOR DAMP AND WET LOCATIONS AND BE PROTECTED WITH GFCI.
3. CIRCUITS PER IRC 2015, 210.12 ARE TO BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT.
4. SDBC (2017), 6-6, AC RECEPTACLES LOCATED IN KITCHENS AND BATHROOMS SHALL BE GFCI PROTECTED.
5. PER IRC 210.8, OUTLETS SHALL BE GFCI PROTECTED IN BATHROOMS, OUTDOORS, KITCHENS, AND LAUNDRY, UTILITY, AND WET BAR SINKS (WITHIN 6FT OF OUTSIDE EDGE).
6. ALL ELECTRICAL EQUIPMENT SHALL CARRY AN APPROVED TESTING AGENCY'S LISTING OR SHALL HAVE BEEN APPROVED BY THE SOLAR DECATHLON BUILDING OFFICIAL AND SOLAR DECATHLON ELECTRICAL INSPECTORS FOR TEMPORARY USE DURING THE EVENT.
7. ALL DC TO AC UTILITY INTERACTIVE INVERTERS MUST BE FULLY LISTED TO UL STANDARD 1741.

CODE NOTES - PV SYSTEMS

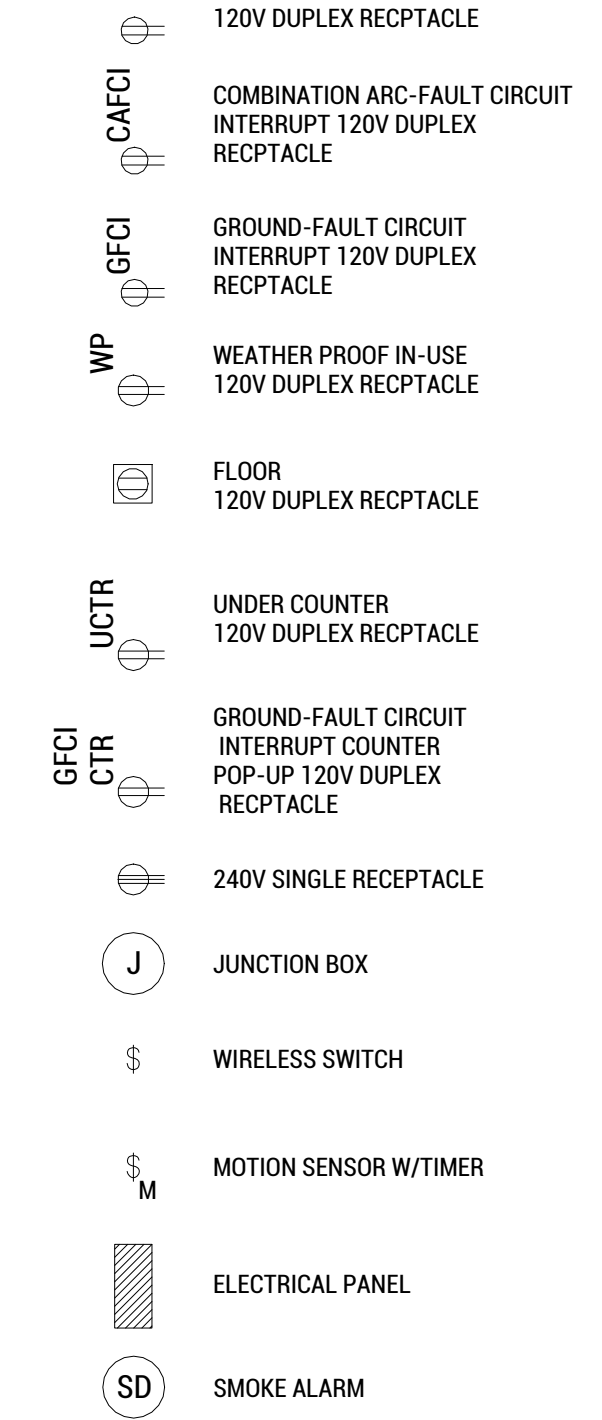
ELECTRICAL CODES REFERENCED: 2017 SOLAR DECATHLON BUILDING CODE SECTION 6, IRC 2015 CHAPTERS 23, AND NFPA 70 NEC (2014).

1. PV SYSTEM SHALL CONFORM TO IRC 2015 SECTION M2302.
2. M2302.2. INSTALLATION, INSPECTION, AND MAINTENANCE, SHALL COMPLY WITH MANUFACTURERS INSTRUCTIONS.
3. M2302.2.1. PV SYSTEM AND MOUNTING SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL.
4. M2302.2.2. FLASH AND SEAL ALL WALL AND ROOF PENETRATIONS PER CHAPTER 9 OF THE IRC 2015.
5. M2302.3. PV PANELS AND MODULES SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 1703.
6. M2302.4. INVERTERS SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 1741. SYSTEMS CONNECTED TO THE UTILITY GRID SHALL USE INVERTERS LISTED FOR UTILITY INTERACTION.

ELECTRICAL DIAGRAM SYMBOLS



ELECTRICAL PLAN SYMBOLS



ELECTRICAL ABBREVIATIONS

ABRV.	DESCRIPTION
MP	MAIN PANEL
TP	TINY HOME PANEL
CP	CLUBHOUSE PANEL
GEC	GROUNDING ELECTRODES CONDUCTOR
TV	TELEVISION
EC	ELECTRICAL CONNECTION
PV	PHOTOVOLTAIC PANEL
GFCI	GROUND FAULT CIRCUIT INTERUPT
HRV	HEAT RECOVERY VENTILATOR
EVSE	ELECTRIC VEHICLE SUPPLY EQUIPMENT
EGC	EQUIPMENT GROUNDING CONDUCTOR
AC	ALTERNATING CURRENT
AWG	AMERICAN WIRE GAUGE
EMT	ELECTRICAL METALLIC TUBING
THHN	THERMOPLASTIC HIGH HEAT-RESISTANT NYLON-COATED
AFCI	ARC FAULT CIRCUIT INTERRUPT
SDBC	SOLAR DECATHLON BUILDING CODE



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LOT NUMBER: LOT #107

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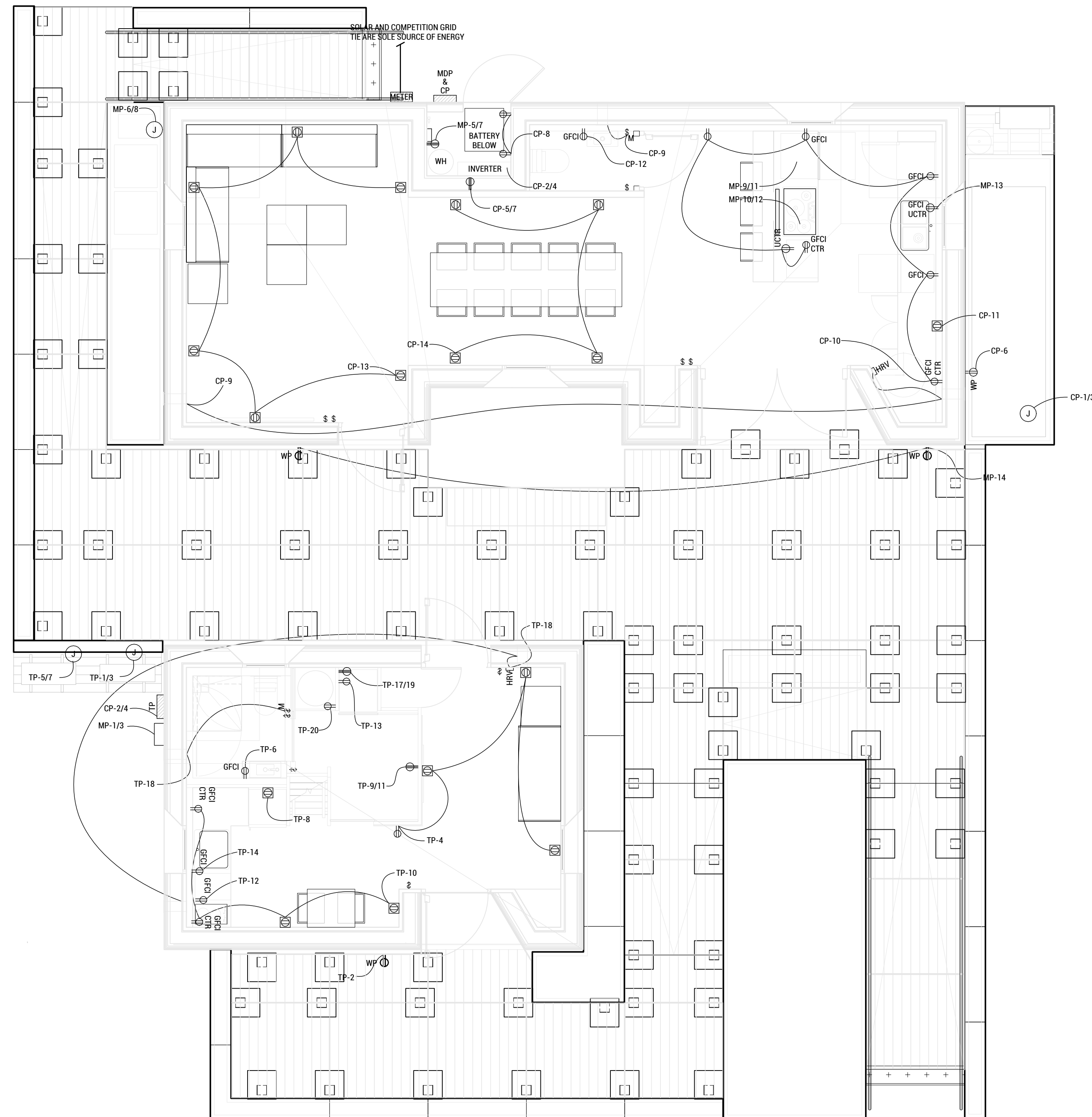
ELECTRICAL NOTES,  
SYMBOLS, ABRV, &  
SCHEDULE

DRAWN BY: TG CHECKED BY: TG

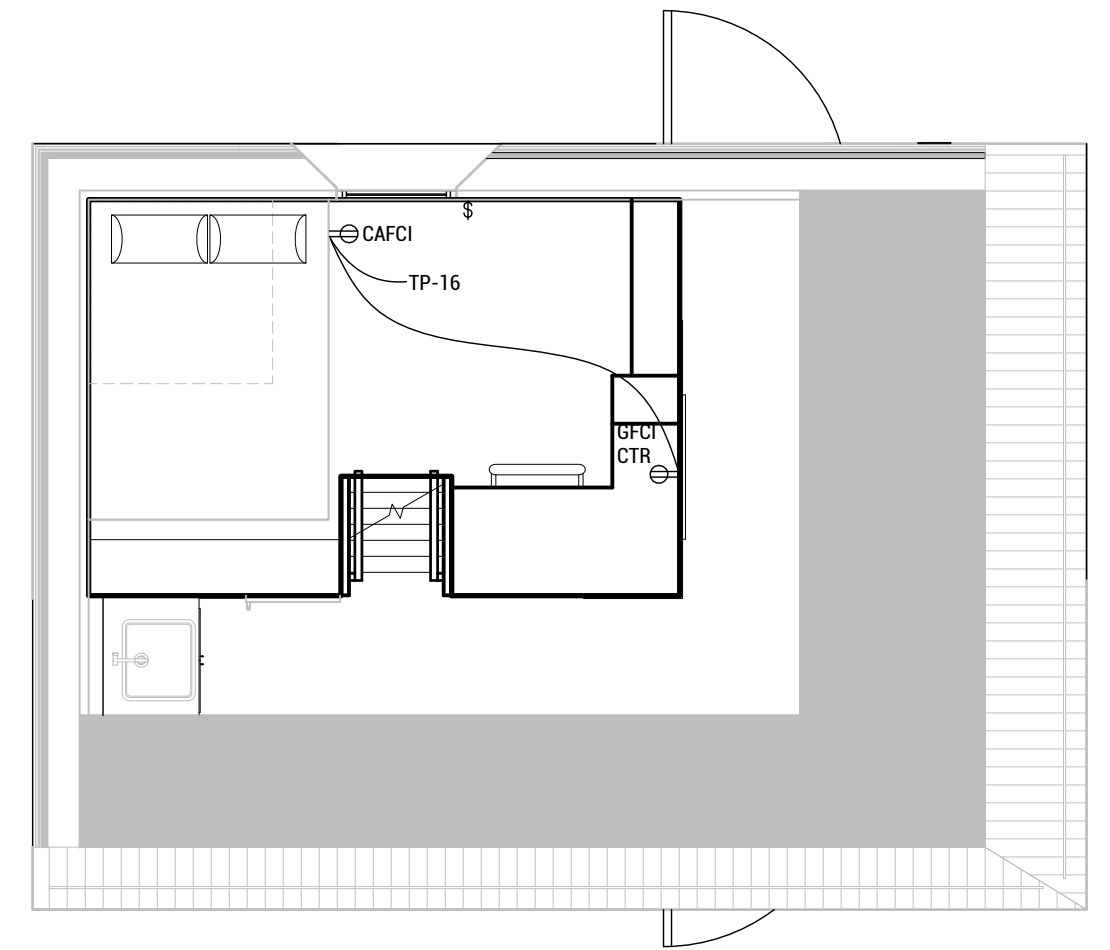
E-001















5/19/2017 2:17



**A8 AC POWER PLAN**  
SCALE: 1/4"=1'-0"



**A2 LOFT AC POWER PLAN**  
SCALE: 1/4"=1'-0"

- ELECTRICAL PLAN SYMBOLS**
-  120V DUPLEX RECPTACLE
  -  GFCI  
GROUND-FAULT CIRCUIT INTERRUPT 120V DUPLEX RECPTACLE
  -  WP  
WEATHER PROOF IN-USE 120V DUPLEX RECPTACLE
  -  FLOOR  
120V DUPLEX RECPTACLE
  -  UCTR  
UNDER COUNTER 120V DUPLEX RECPTACLE
  -  GFCI CTR  
GROUND-FAULT CIRCUIT INTERRUPT COUNTER POP-UP 120V DUPLEX RECPTACLE
  -  240V SINGLE RECEPCTACLE
  -  J  
JUNCTION BOX
  -  \$  
WIRELESS SWITCH
  -  \$ M  
MOTION SENSOR W/TIMER
  -  HRV  
HRV CONTROLLER
  -  ELECTRICAL PANEL



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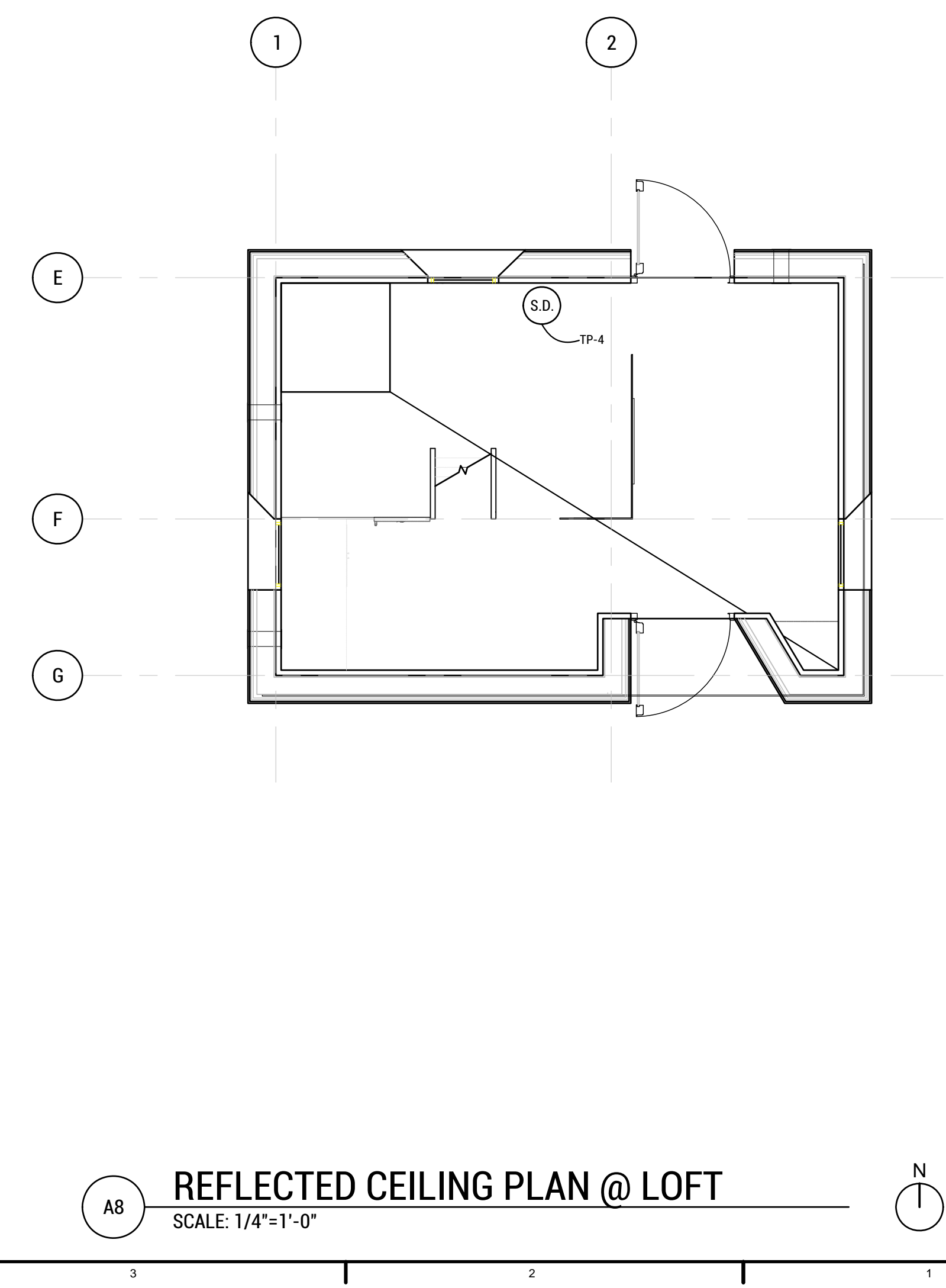
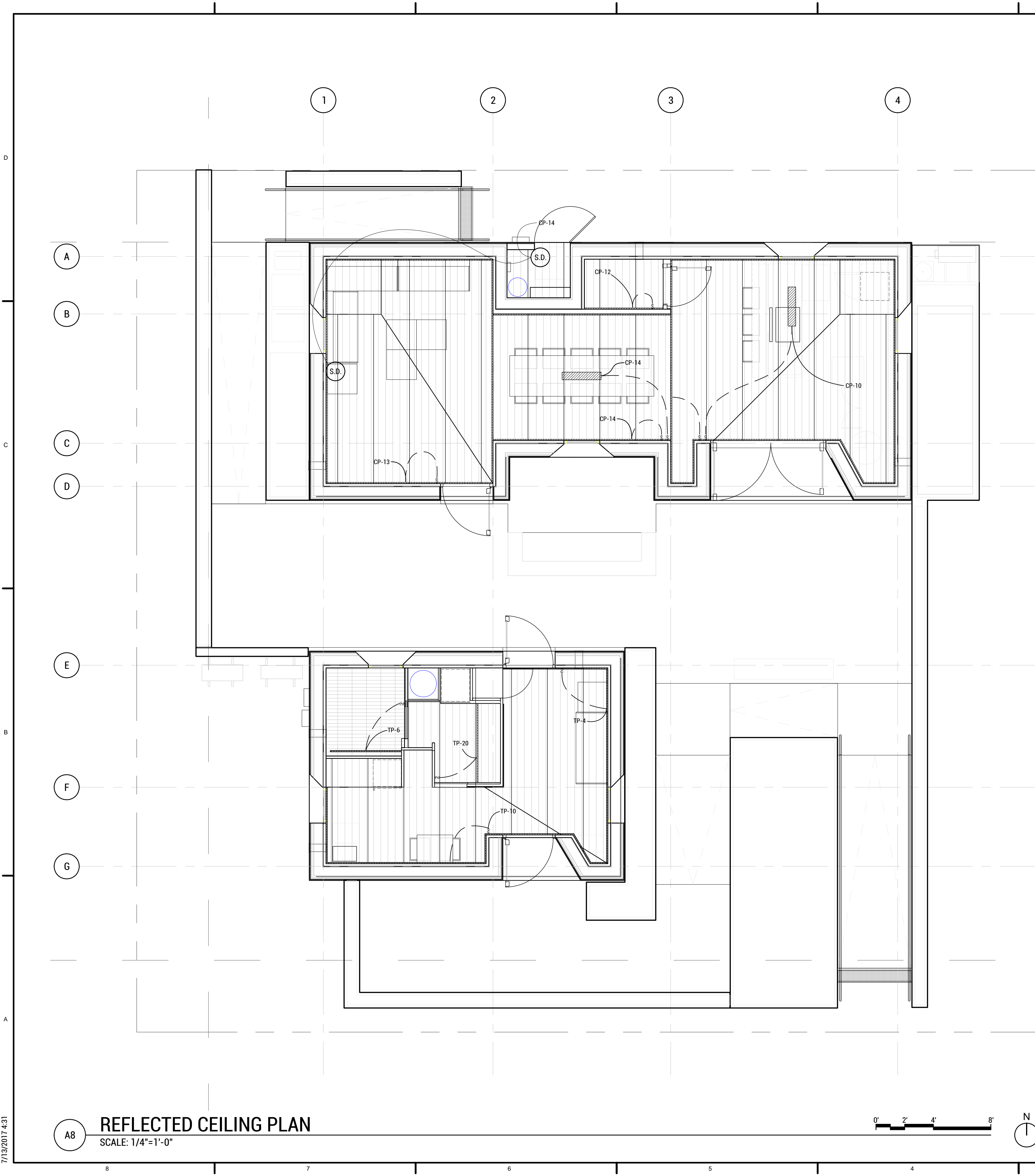
LOT NUMBER: LOT #107

SHEET TITLE:

**AC POWER PLAN**

DRAWN BY: DG CHECKED BY: TG

**E-101**



WASHINGTON STATE UNIVERSITY

TEAM NAME: EN CITY  
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	11/15/2016	80% DD SET

LOT NUMBER: LOT #107

SHEET TITLE:

**REFLECTED CEILING PLAN W/ WIRING**

DRAWN BY: SA CHECKED BY: TG

**E-102**

**REFLECTED CEILING PLAN**  
 SCALE: 1/4"=1'-0"

**REFLECTED CEILING PLAN @ LOFT**  
 SCALE: 1/4"=1'-0"

7/13/2017 4:31



MAIN DISTRIBUTION PANEL

250A Panel | 200A Main

#	POLE	TRIP	LOAD DESCRIPTION	WIRE SIZE	#	POLE	TRIP	LOAD DESCRIPTION	WIRE SIZE
01/03	2	40A GFCI	EVSE	8/3	2/4	2	40A	PV/Battery Backfeed	#8 THHN
05/07	2	25A	CB - Hot Water	10/3	6/8	2	30A GFCI	Imber	10/3
9/11	2	40A	CB - Oven	8/3	10/12	2	40A GFCI	CB - Cooktop	8/3
13	1	20A GFCI	Dishwasher	12/2	14	1	20A GFCI	Outdoor	12/2

TINY HOME SUBPANEL

100A Panel | 60 Main

#	POLE	TRIP	LOAD DESCRIPTION	WIRE SIZE	#	POLE	TRIP	LOAD DESCRIPTION	WIRE SIZE
01/03	2	15A GFCI	Outdoor Heat Pump (Sanden)	14/3	2	1	20A GFCI	Outdoor	12/2
05/07	2	15A GFCI	Outdoor Heat Pump (Mitsubishi)	14/4	4	1	20A GFCI	Living Room	12/2
9/11	2	15A GFCI	Indoor Unit (Mitsubishi)	14/3	6	1	20A GFCI	Bathroom Receptacles	12/2
					8	1	20A GFCI	Refrigerator	12/2
					10	1	20A GFCI	Kitchen Receptacles	12/2
13	2	20A GFCI	Washer	12/2	12	1	20A GFCI	Cooktop	12/2
15	1	15A GFCI	Smoke Alarm	12/2	14	1	15A GFCI	Dishwasher	14/2
17/19	2	30A GFCI	Dryer	10/3	16	2	15A CAFCI	Loft Receptacles	14/2
					18	1	15A	HRV	14/2
					20	1	20A GFCI	Mech Receptacles	12/2

COMMUNITY CRITICAL LOADS SUBPANEL

100A Panel | 60 Main

#	POLE	TRIP	LOAD DESCRIPTION	WIRE SIZE	#	POLE	TRIP	LOAD DESCRIPTION	WIRE SIZE
01/03	2	15A GFCI	Outdoor Heat Pump (Mitsubishi)	14/4	2/4	2	60	Tiny Home Sub-Panel	
05/07	2	15A GFCI	Indoor Unit (Mitsubishi)	14/3	6	1	20A GFCI	Pump/Outdodor Mech	12/2
					8	1	15A GFCI	Mech Receptacles	12/2
9	1	15A	HRV	14/2	10	1	20A GFCI	Kitchen Receptacles	12/2
11	1	20A GFCI	Refrigerator	12/2	12	1	20A GFCI	Bathroom Receptacles	12/2
13	1	15A GFCI	Living Room Receptacles	12/2	14	1	15A GFCI	Dining Receptacles	12/2
15	1	15A GFCI	Smoke Alarm	12/2					

**C8** ELECTRICAL PANEL SCHEDULE

SCALE: NTS

2016 DWELLING UNIT ELECTRIC SERVICE & FEEDER LOAD CALCULATOR

220.12 GENERAL LIGHTING LOAD (220.12)

3 VA/FT<sup>2</sup> OF FLOOR AREA, INCLUDING UNUSED SPACE ADAPTABLE FOR FUTURE USE.  
FLOOR AREA 864 SF 2592 VA

220.52(A) SMALL APPLIANCE LOAD

1500 VA FOR EACH 20 AMP BRANCH CIRCUIT REQUIRED PER 210.1(C)(1) IN EACH KITCHEN, PANTRY, BREAKFAST ROOM, DINING ROOM, OR SIMILAR AREAS.

# OF SMALL APPLIANCE BRANCH CIRCUITS 2 X 1500 VA 3000 VA

TOTAL GENERAL LIGHTING AND APPLIANCE LOAD 5592 VA

220.42 LIGHTING LOAD FEEDER DEMAND FACTORS

FIRST 3000 OR LESS AT	100 %	3000 VA	3000 VA
3001-120,000 AT	35 %	2592 VA	907.2 VA
TOTAL LIGHTING DEMAND LOAD			3907.2 VA

220.5 MOTOR LOADS @ 120 VOLTS

QTY	DESCRIPTION	VA	Extended	VA
1	1.5HP Booster Pump	1120	1120	1120 VA
1	MITSUBISHI SPLIT A/C	2760	2760	2760 VA
1	DOWNDRAFT VENTILATOR	530	530	530 VA
TOTAL CALCULATED				8,317 VA
TOTAL CALCULATED				34,655 AMP

**C5** ELECTRICAL LOAD CALCULATIONS TH

SCALE: NTS

2016 DWELLING UNIT ELECTRIC SERVICE & FEEDER LOAD CALCULATOR

220.12 GENERAL LIGHTING LOAD (220.12)

3 VA/FT<sup>2</sup> OF FLOOR AREA, INCLUDING UNUSED SPACE ADAPTABLE FOR FUTURE USE.  
FLOOR AREA 416 SF 1248 VA

220.52(A) SMALL APPLIANCE LOAD

1500 VA FOR EACH 20 AMP BRANCH CIRCUIT REQUIRED PER 210.1(C)(1) IN EACH KITCHEN, PANTRY, BREAKFAST ROOM, DINING ROOM, OR SIMILAR AREAS.

# OF SMALL APPLIANCE BRANCH CIRCUITS 2 X 1500 VA 3000 VA

220.52(B) LAUNDRY LOAD

# OF LAUNDRY BRANCH CIRCUITS 1 X 1500 VA 1500 VA  
TOTAL GENERAL LIGHTING AND APPLIANCE LOAD 5748 VA

220.42 LIGHTING LOAD FEEDER DEMAND FACTORS

FIRST 3000 OR LESS AT	100 %	3000 VA	3000 VA
3001-120,000 AT	35 %	2748 VA	961.8 VA
TOTAL LIGHTING DEMAND LOAD			3961.8 VA

220.54 ELECTRIC CLOTHES DRYERS

QTY 1 X 5000 VA 5000 VA

220.55 ELECTRIC COOKING-RANGES, STOVE TOPS AND WALL OVENS

QTY 1 X 1.8 KW 1800 VA

ONE UNIT OVER 1.75KW BUT LESS THAN 3.5kW 80 % 1800 VA

220.14 APPLIANCE LOAD

QTY	DESCRIPTION	VA	Extended	VA
1	DISHWASHER	1300	1300	1300 VA
TOTAL CALCULATED				1300 CONNECTED

220.53 APPLIANCE LOAD-DWELLING UNITS (75%)

220.5 MOTOR LOADS @ 120 VOLTS

QTY	DESCRIPTION	VA	Extended	VA
1	SANDEN WATER HI	1000	1000	1000 VA
1	MITSUBISHI SPLIT	2760	2760	2760 VA
1	DOWNDRAFT VENT	530	530	530 VA
TOTAL CALCULATED				15,667 VA
TOTAL CALCULATED				65,278,333.33 AMP

**C3** ELECTRICAL LOAD CALCULATIONS CCL

SCALE: NTS

2016 DWELLING UNIT ELECTRIC SERVICE & FEEDER LOAD CALCULATOR

220.12 GENERAL LIGHTING LOAD (220.12)

3 VA/FT<sup>2</sup> OF FLOOR AREA, INCLUDING UNUSED SPACE ADAPTABLE FOR FUTURE USE.  
FLOOR AREA 1220 SF 3660 VA

220.52(A) SMALL APPLIANCE LOAD

1500 VA FOR EACH 20 AMP BRANCH CIRCUIT REQUIRED PER 210.1(C)(1) IN EACH KITCHEN, PANTRY, BREAKFAST ROOM, DINING ROOM, OR SIMILAR AREAS.

# OF SMALL APPLIANCE BRANCH CIRCUITS 4 X 1500 VA 6000 VA

220.52(B) LAUNDRY LOAD

# OF LAUNDRY BRANCH CIRCUITS 1 X 1500 VA 1500 VA  
TOTAL GENERAL LIGHTING AND APPLIANCE LOAD 11160 VA

220.42 LIGHTING LOAD FEEDER DEMAND FACTORS

FIRST 3000 OR LESS AT	100 %	3000 VA	3000 VA
3001-120,000 AT	35 %	8160 VA	2856 VA
TOTAL LIGHTING DEMAND LOAD			5856 VA

220.54 ELECTRIC CLOTHES DRYERS

QTY 1 X 5000 VA 5000 VA

220.55 ELECTRIC COOKING-RANGES, STOVE TOPS AND WALL OVENS

QTY 1 X 7.2 KW 7200 VA

QTY 1 X 6.275 KW 6275 VA

QTY 1 X 1.8 KW 1800 VA

DEMAND FACTORS

TWO UNITS OVER 3.5KW BUT LESS THAN 8.75KW 65 % 13475 VA 8758.75 VA

ONE UNIT OVER 1.75KW BUT LESS THAN 3.5KW 80 % 1800 VA 1440 VA

220.51 FIXED ELECTRIC SPACE HEATING LOADS OR AIR CONDITIONING LOAD

QTY 0 X 0 VA 0 VA

220.14 APPLIANCE LOAD

QTY	DESCRIPTION	VA	Extended	VA
2	DISHWASHER	1300	2600	
1	IMBER	330	330	
1	WATER HEATER	2500	2500	
1	CAR CHARGER	9600	9600	
TOTAL CALCULATED				15030 CONNECTED

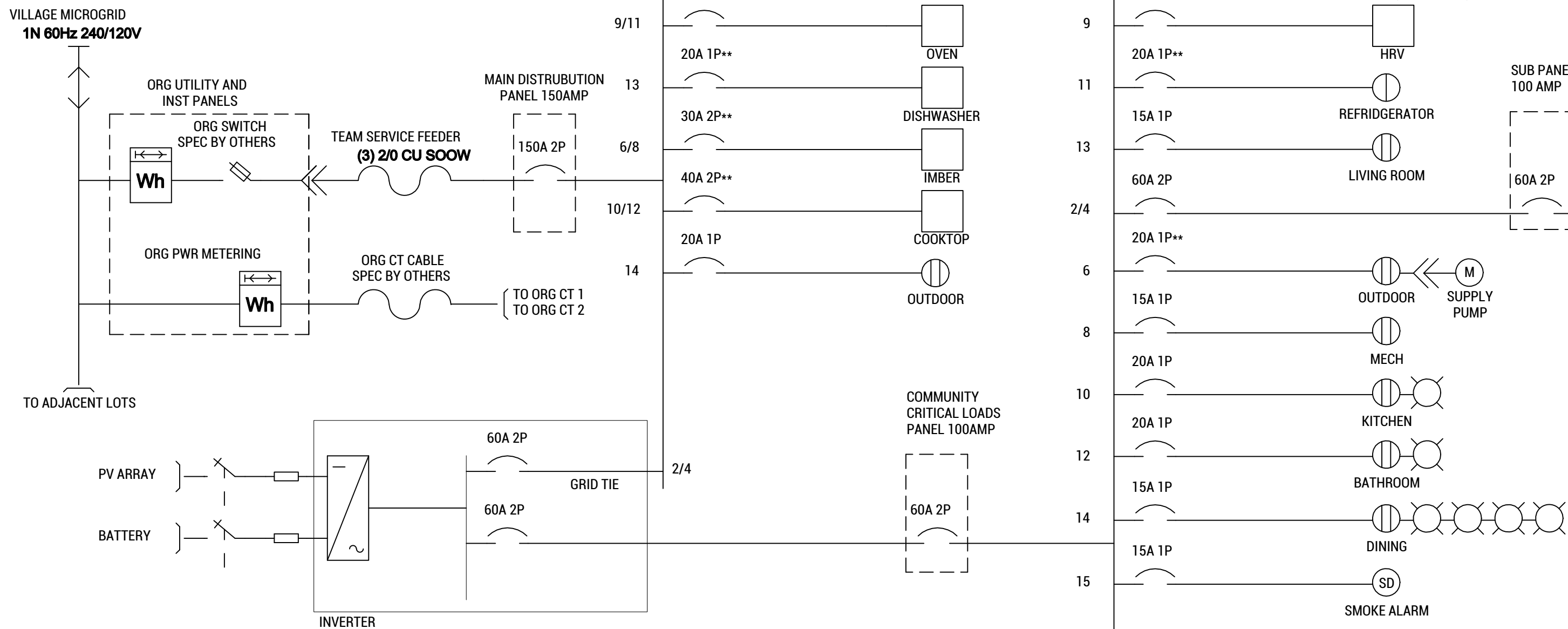
220.53 APPLIANCE LOAD-DWELLING UNITS (75%)

220.5 MOTOR LOADS @ 120 VOLTS

QTY	DESCRIPTION	VA	Extended	VA
1	1.5HP Booster Pump	1120	1120	1120 VA
1	SANDEN WATER HEATER	1000	1000	1000 VA
1	MITSUBISHI SPLIT A/C	2760	5520	5520 VA
2	DOWNDRAFT VENTILATC	530	1060	1060 VA
TOTAL CALCULATED DEMAND LOAD IN VOLT-AMPERES				41,027 VA
TOTAL CALCULATED DEMAND LOAD IN VOLT-AMPERES				170,946 AMP

**A3** ELECTRICAL LOAD CALCULATIONS MP

SCALE: NTS



**A8** SINGLE LINE DIAGRAM

SCALE: NTS



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LOT NUMBER: LOT #107

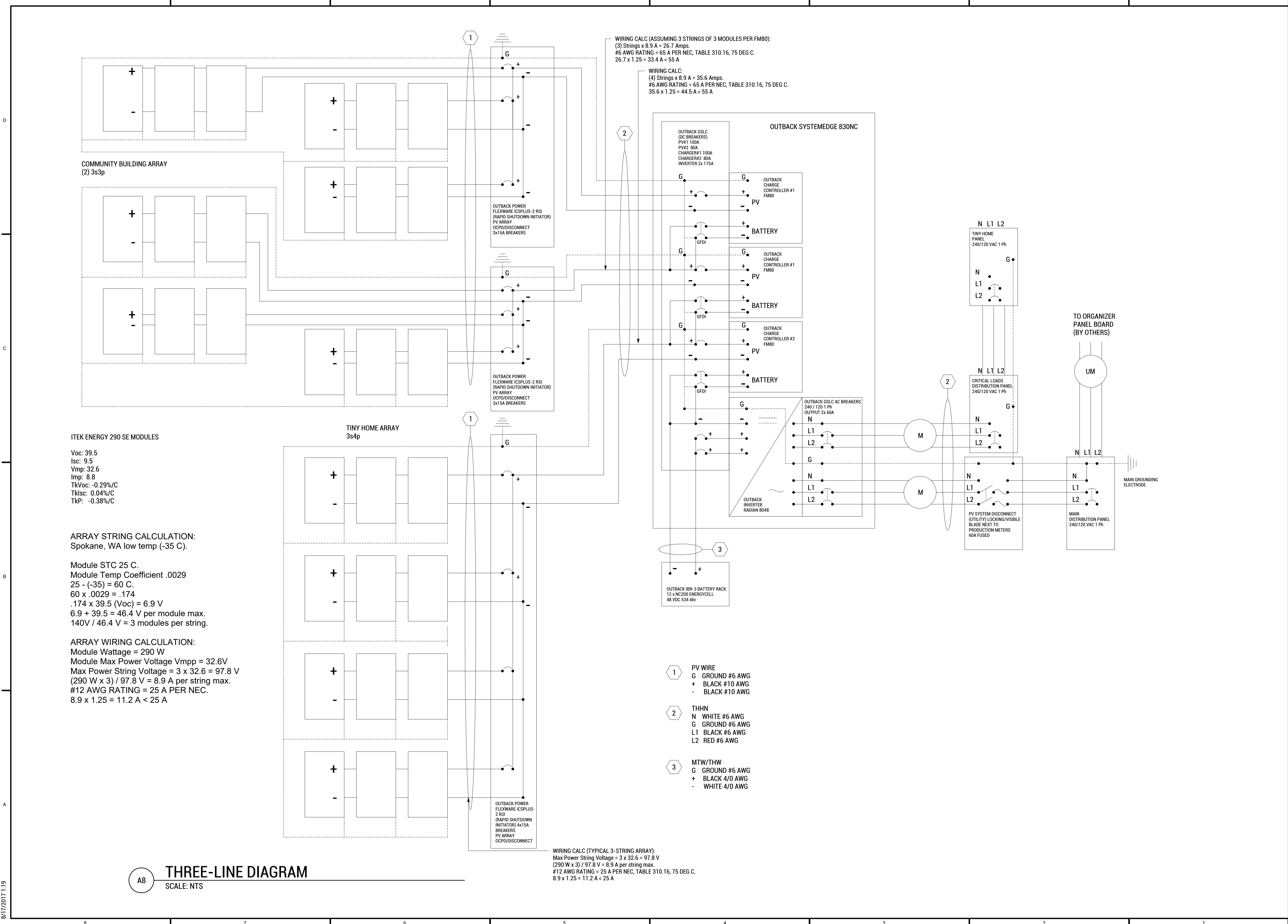
SHEET TITLE:

ELECTRICAL  
SINGLE-LINE  
DIAGRAM

DRAWN BY: DG CHECKED BY: TG

E-601





**A8 THREE-LINE DIAGRAM**  
 SCALE: NTS



TEAM NAME: EN CITY  
 ADDRESS: [STREET] SPOKANE, WA [ZIP CODE]  
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	04/24/2017	100% CD SET
	02/17/2017	FINAL CHECKSET
	11/15/2016	80% DD SET

LOT NUMBER: LOT #107

SHEET TITLE:

**ELECTRICAL THREE-LINE DIAGRAM**

DRAWN BY: DG CHECKED BY: DG

**E-603**

8/17/2017 1:19



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ADDRESS: [STREET] SPOKANE, WA [ZIP CODE]

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MARK	DATE	DESCRIPTION
	05/10/17	REV. 1
	01/27/2017	CD PROGRESS SET
	11/15/2016	80% DD SET

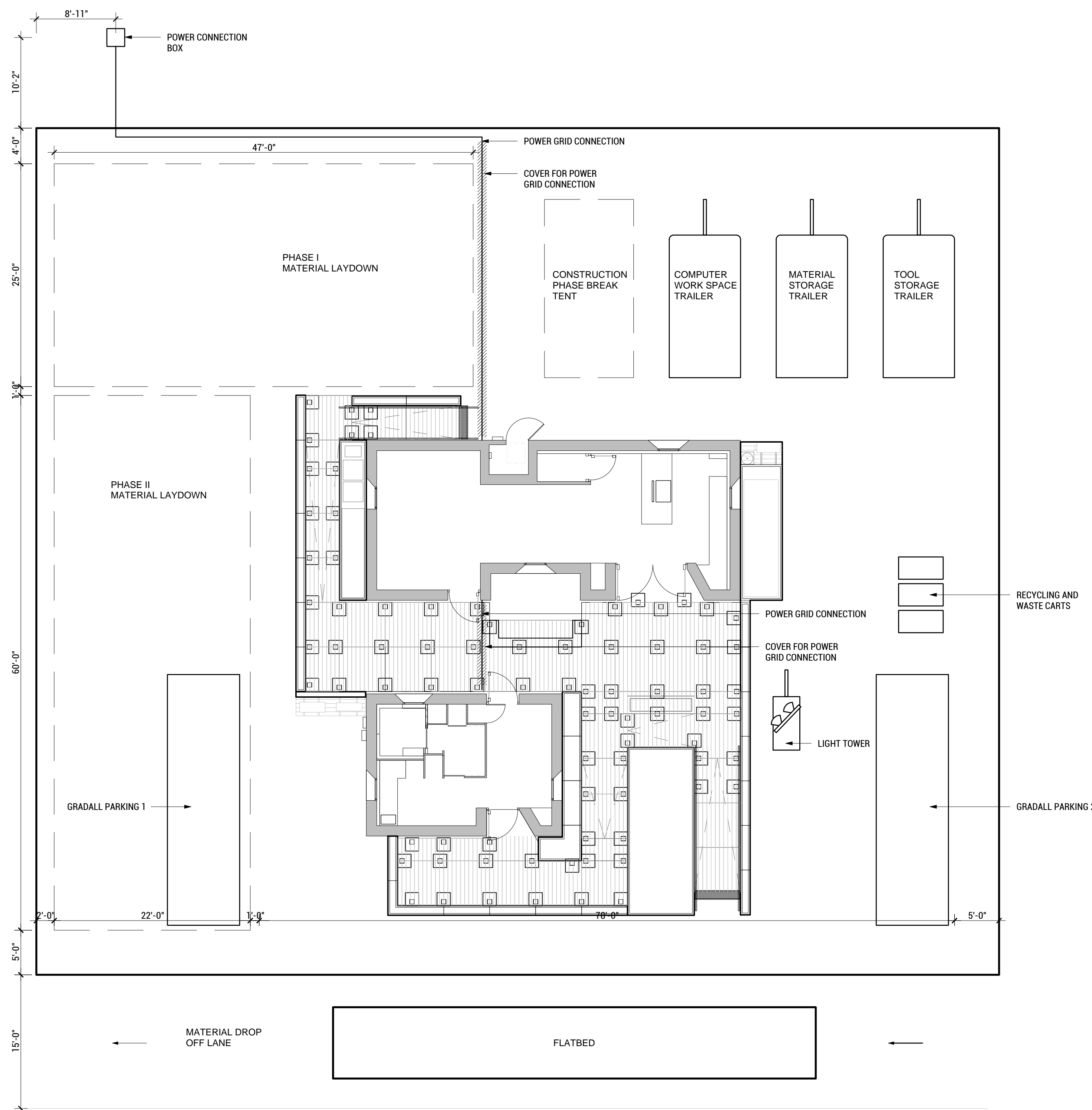
LOT NUMBER: LOT #107

SHEET TITLE:

### SITE LOGISTICS PLAN

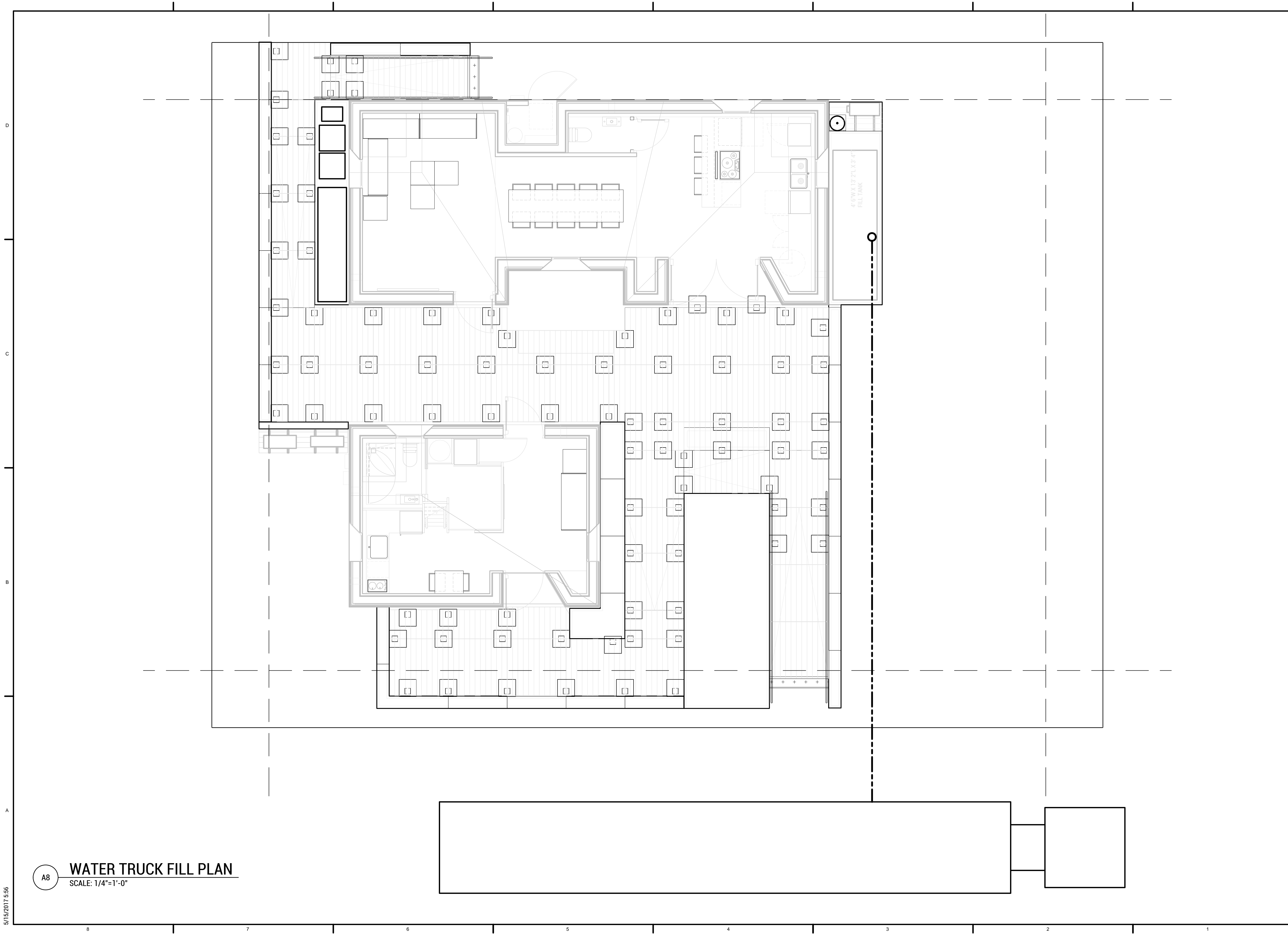
DRAWN BY: TG CHECKED BY: SA

# 0-101



**SITE LOGISTICS PLAN**  
SCALE: 1/8"=1'-0"

7/27/2017 11:25



ENCITY



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	08/10/2017	FINAL CD SET
	06/23/2017	100% CD SET CHANGES 2
	05/12/2017	100% CD SET CHANGES 1
	04/24/2017	100% CD SET
	02/17/2017	FINAL CHECKSET
	11/15/2016	80% DD SET

LOT NUMBER: LOT #107

SHEET TITLE:

**Water Truck & Fill Location**

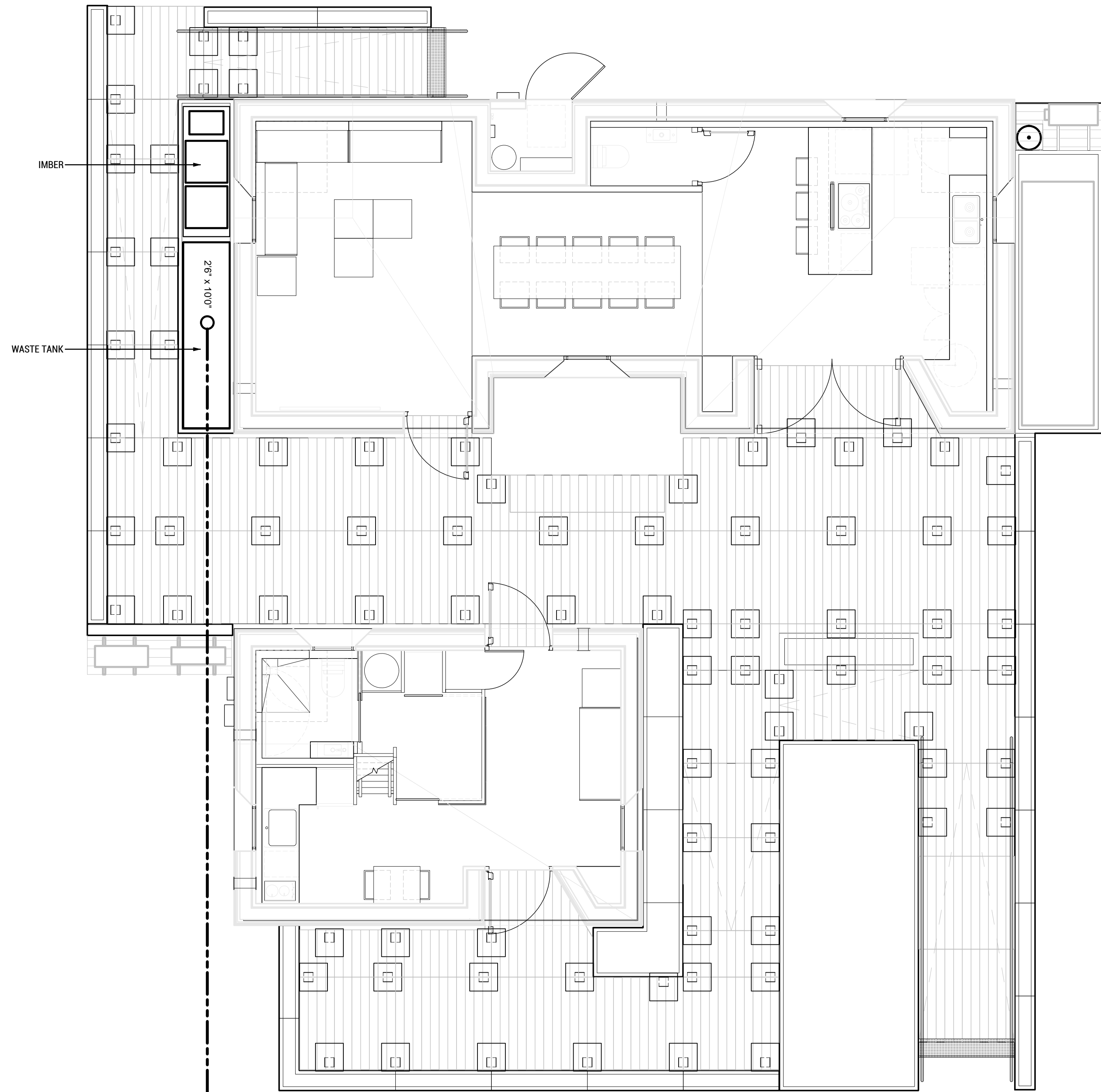
DRAWN BY: DJ CHECKED BY: XX

**0-102**

A8 WATER TRUCK FILL PLAN  
 SCALE: 1/4"=1'-0"

5/15/2017 5:56





SHEET NOTES

1. WATER IN IMBER TO BE CONSOLIDATED INTO WASTE WATER BLADDER FOR REMOVAL. EXTRA WATER SHALL ALSO BE REMOVED FROM THE SUPPLY BLADDER AT THE END OF THE COMPETITION



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	02/17/2017	FINAL CHECKSET
	11/15/2016	80% DD SET

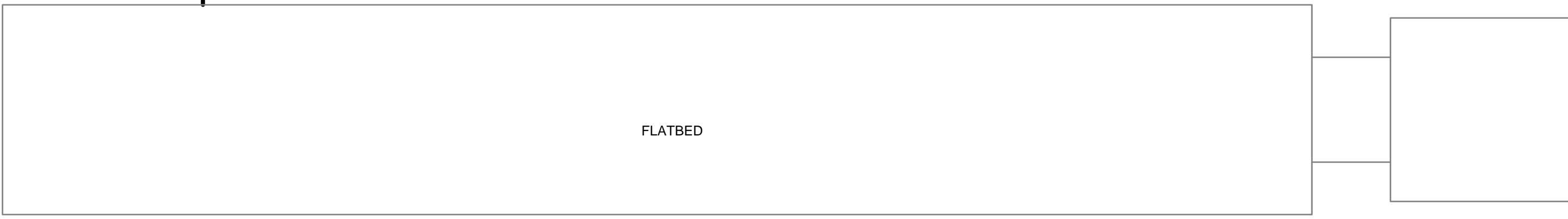
LOT NUMBER: LOT #107

SHEET TITLE:

**WATER TRUCK & REMOVAL LOCATION**

DRAWN BY: DJ CHECKED BY: DG

**0-103**



**WATER TRUCK & REMOVAL LOCATION**  
 SCALE: 1/4"=1'-0"

7/27/2017 11:40

A8

D  
C  
B  
A

8 7 6 5 4 3 2 1



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	02/17/2017	FINAL CHECKSET
	11/15/2016	80% DD SET

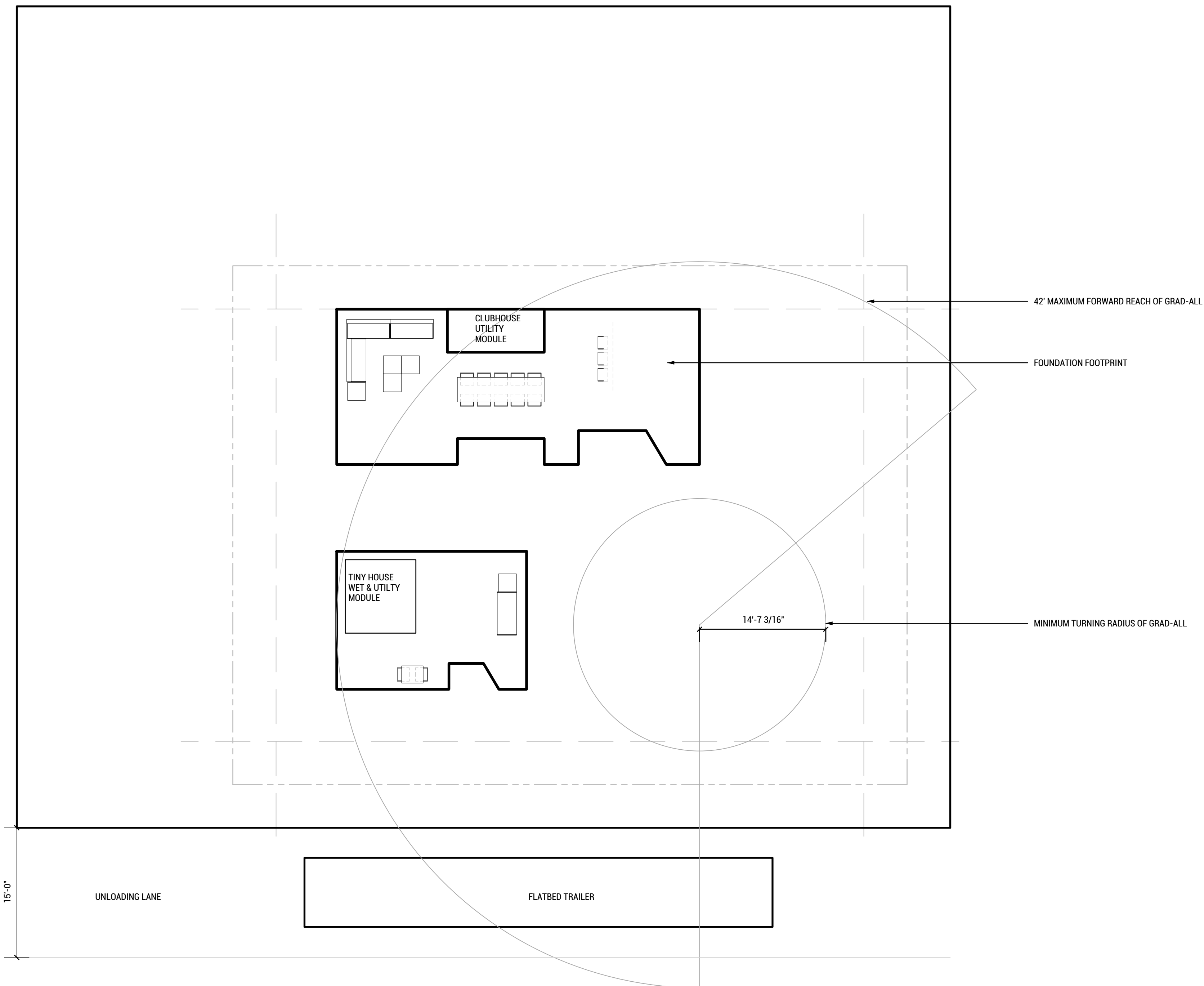
LOT NUMBER: LOT #107

SHEET TITLE:

**MODULE SETTING PLAN**

DRAWN BY: CHECKED BY:

**0-104**



**MODULE SETTING PLAN**  
 SCALE: 1/8"=1'-0"

SHEET NOTES

1. THIS PROJECT HAS SET A GOAL OF BUILDING WITHOUT THE USE OF CRANES. THIS MODULAR SYSTEM ALLOWS FOR GREATER EFFICIENCY IN TRUCKING MATERIAL AND CRANE COST SAVINGS.
2. TRUCKS, MATERIAL HANDLERS, AND CREWS SHALL BE SIZED FOR SAFE LIFTING OF MATERIALS.
3. WORK CREWS SHALL RECEIVE TRAINING ON LIFT PROCEDURES AND SAFETY MEASURES WHEN HANDLING HEAVY LOADS.
4. LOAD CALCULATIONS ARE BASED ON MANUFACTURER DATA AND MAY VARY WITH WEATHER CONDITIONS, FASTENER APPLICATION, AND VARIATIONS WITHIN PRODUCTS.



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	02/17/2017	FINAL CHECKSET
	11/15/2016	80% DD SET

LOT NUMBER: LOT #107

SHEET TITLE:

LIFT WEIGHT CALCULATIONS

DRAWN BY: CHECKED BY:

0-601

HEAVIEST WEIGHT COMPONENT LOADS					
	MATERIAL	VOLUME (CF)	QTY.	DENSITY (LBS/CF)	WEIGHT (LBS)
<b>WALL FACADE ASSEMBLY</b>					
ZAG FURRINGS					
ZAG FURRING	3/4" PLYWOOD	0.073	2	34.08	4.98
CROSS PIECE	3/4" PLYWOOD	0.031	3	34.08	3.17
TOP ANGLE	3/4" PLYWOOD	0.026	2	34.08	1.77
BOTTOM ANGLE	3/4" PLYWOOD	0.022	2	34.08	1.50
CLEATS					
CLEAT	3/4" PLYWOOD	0.024	4	34.08	3.27
BATT INSULATION	7.25" COMFORTBATT	19.743	1	2	39.49
RIGID RUNNING BOARD	1.5" COMFORTBOARD	0.252	1	8	2.02
RIGID SHEET	1.5" COMFORTBOARD	4.357	1	8	34.86
FURRING STRIPS	CEDAR 1x4	0.073	5	23	8.40
COR-A-VENT					
RAINSCREEN	CEDAR 1x4	2.645	1	23	60.84
<b>TOTAL</b>					<b>160.28</b>
<b>WALL CLT</b>	2.25" x 14' 10 3/8"	11.148	1	31	<b>345.59</b>
<b>FLOOR CLT</b>	4.5" x 16'	24	1	31	<b>744.00</b>
<b>GEO FOAM</b>	4'x20'x14.5"	96.667	1	1.8	<b>174.00</b>

\*ROOF MODULES ARE ALL DESIGNED TO BE SMALLER AND OF LIGHTER WEIGHT SO CALCULATIONS NOT SHOWN.

D

C

B

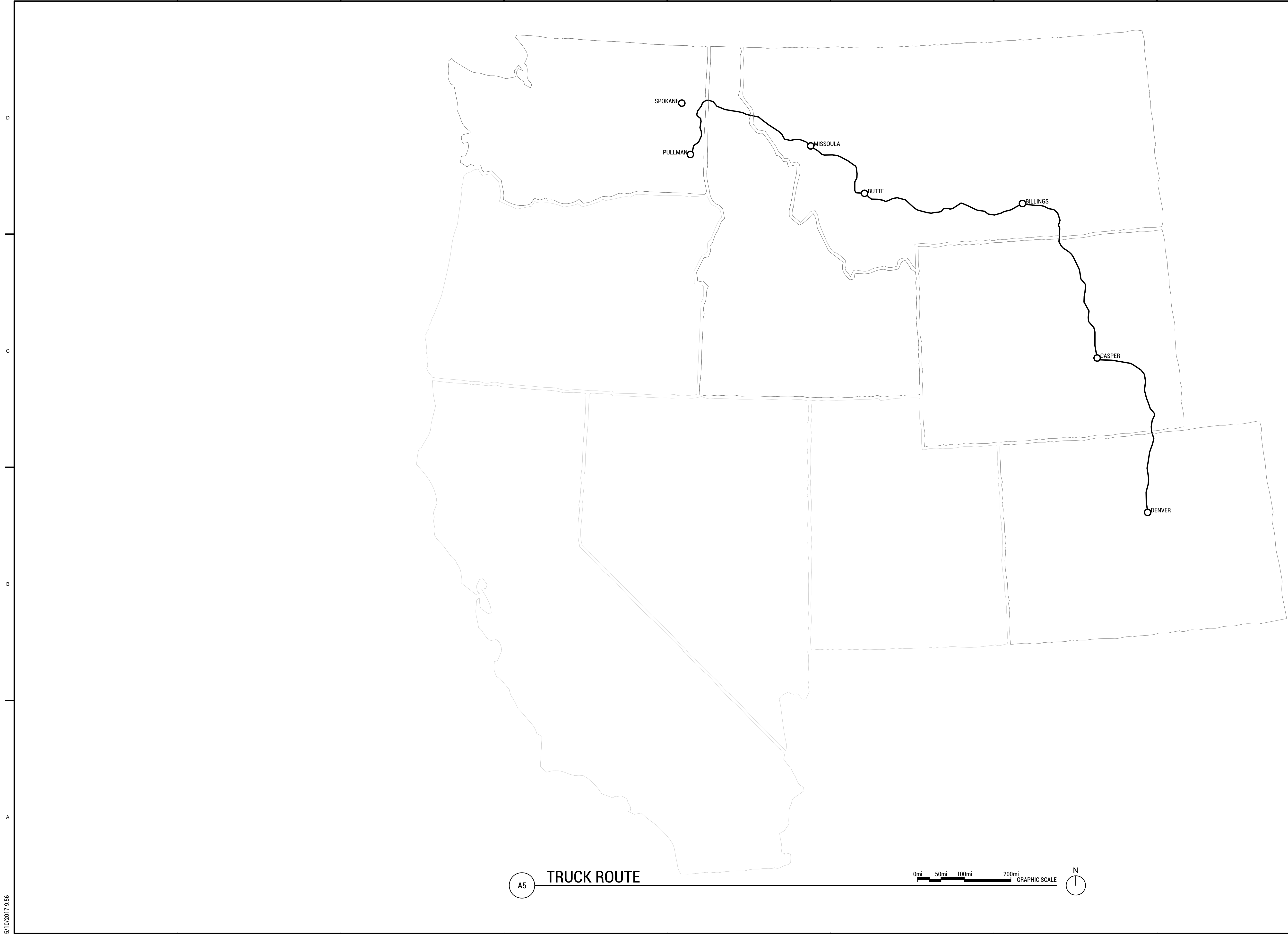
A

2/25/2017 1:48



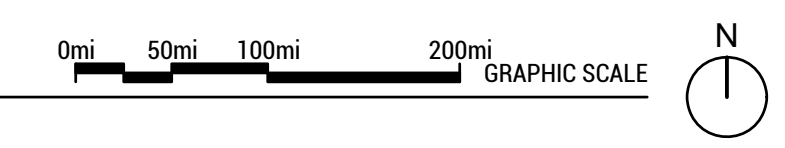
D  
C  
B  
A

5/10/2017 9:56



A5

### TRUCK ROUTE



TEAM NAME: EN CITY  
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	02/17/2017	FINAL CHECKSET
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LOT NUMBER: LOT #107

SHEET TITLE:

### TRUCK ROUTE

DRAWN BY: CHECKED BY:

# 0-602





TEAM NAME: EN CITY  
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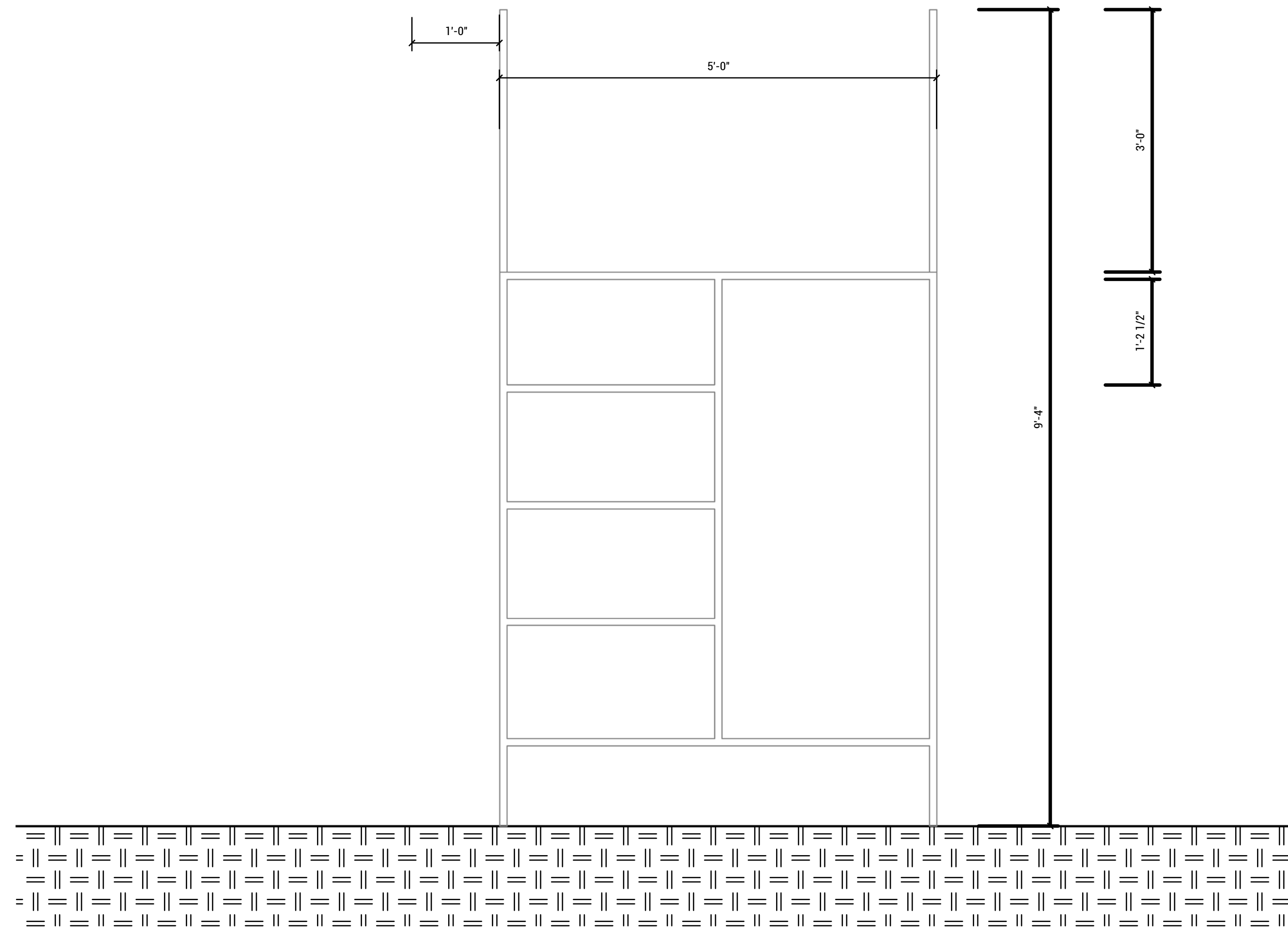
LOT NUMBER: LOT #107

SHEET TITLE:

**SCAFFOLD CONFIGURATION**

DRAWN BY: CR CHECKED BY:

**0-802**



**SCAFFOLD CONFIGURATION**  
 SCALE: 1"=1'-0"

5/10/2017 11:00

8 7 6 5 4 3 2 1





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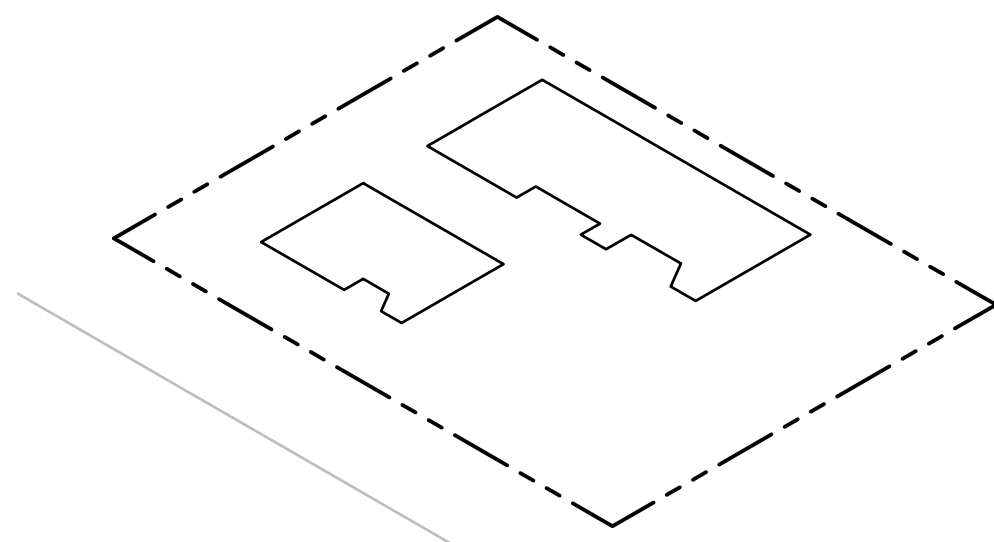
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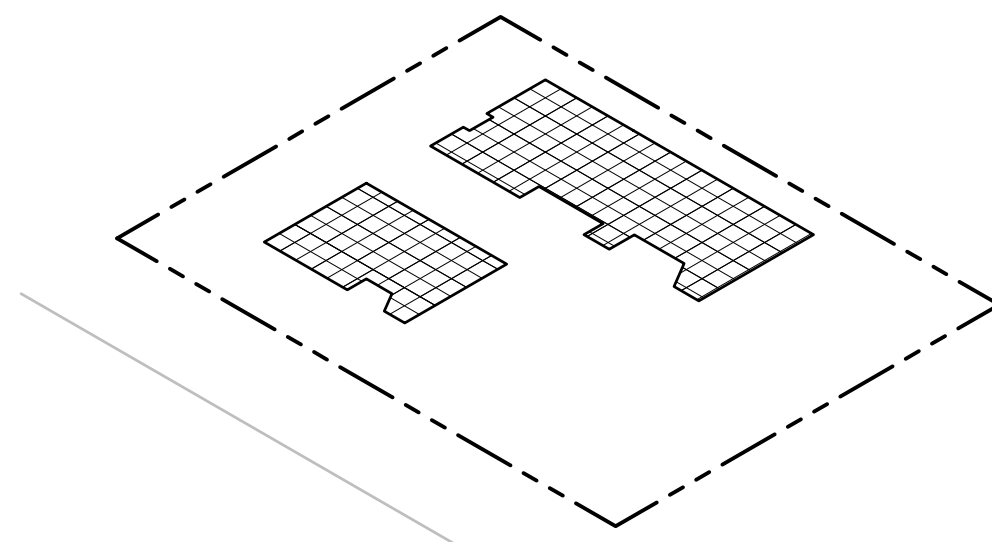
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DRAWN BY: CS CHECKED BY: SA

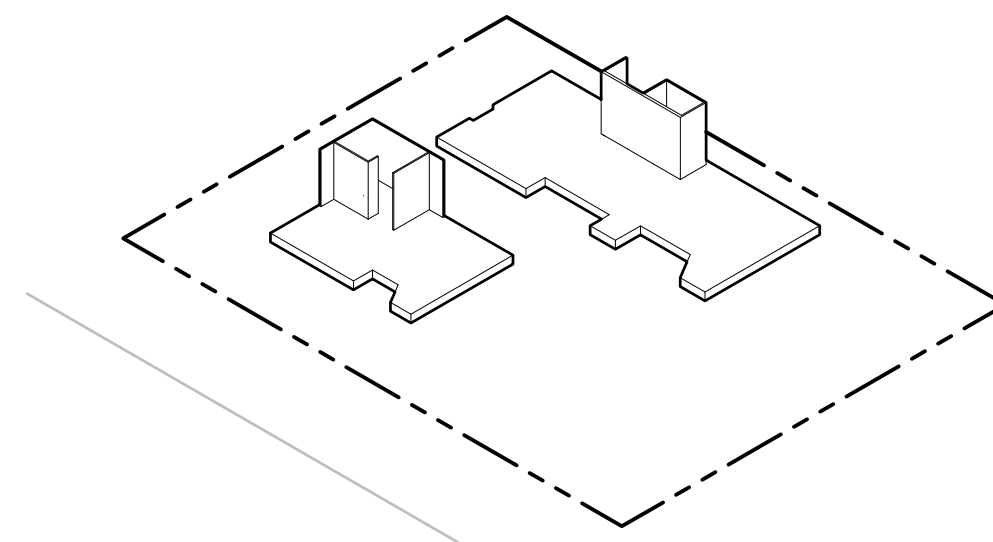
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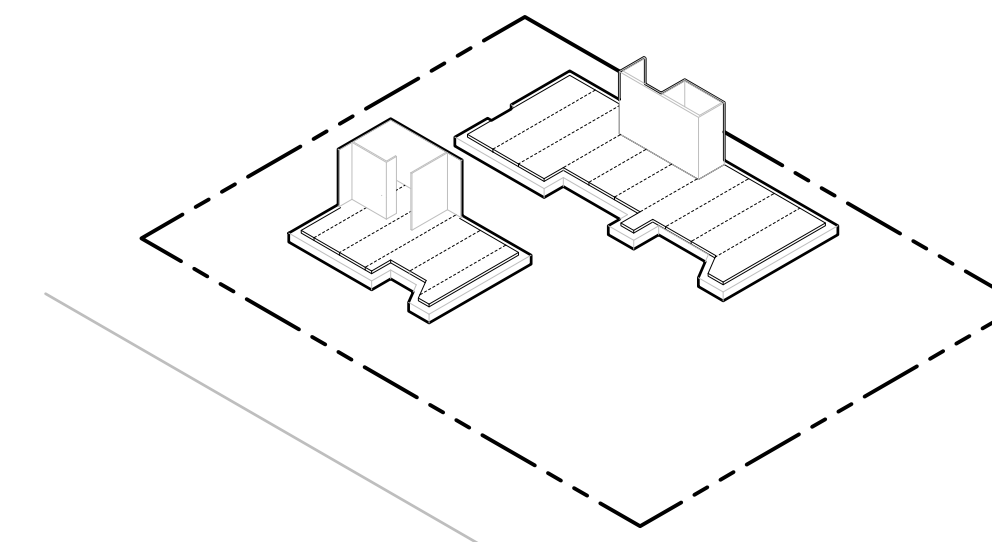
1. MOBILIZATION/ LAYOUT



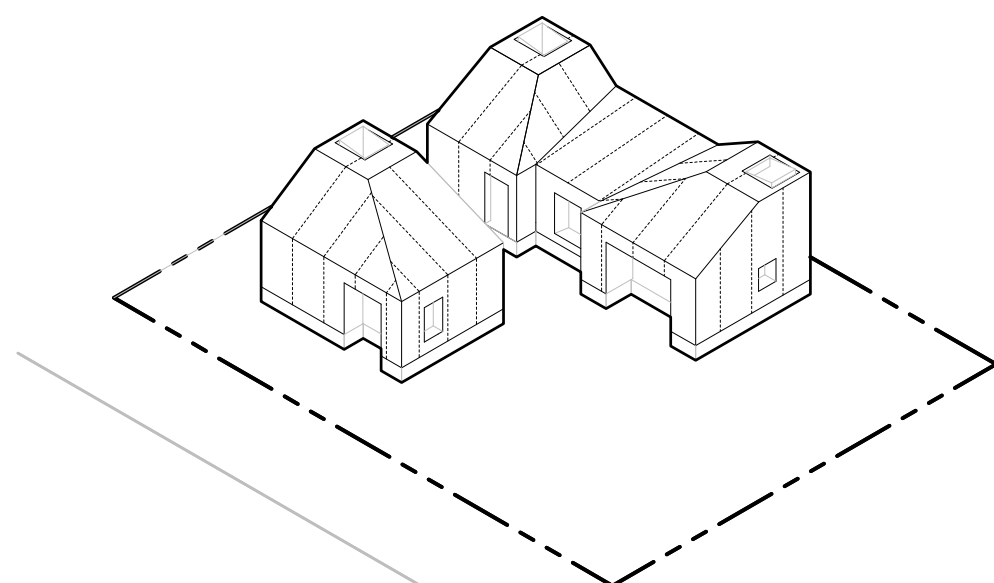
2. LEVELING BASE



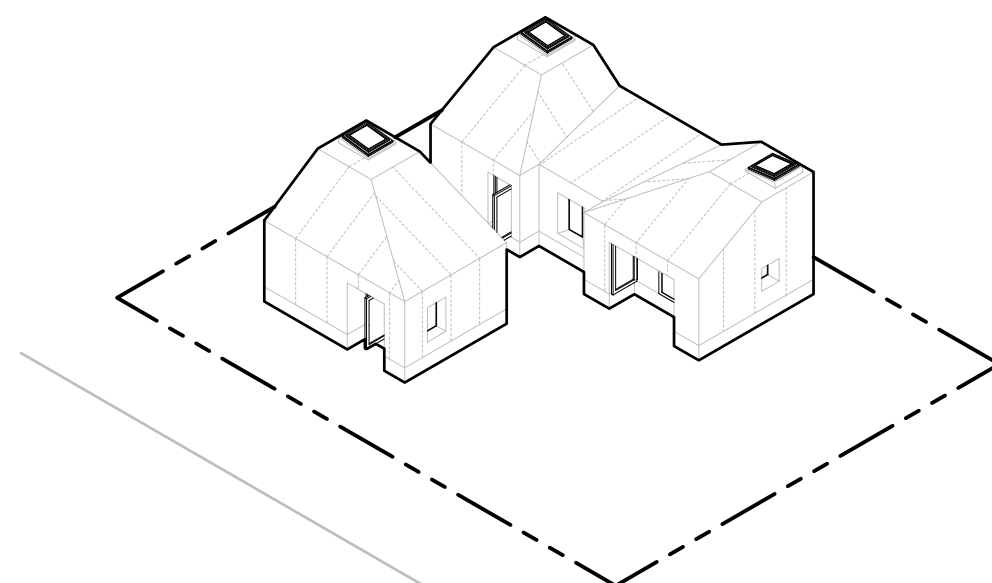
3. GEO FOAM/ ANCHORS/ UTILITIES/ MODULES



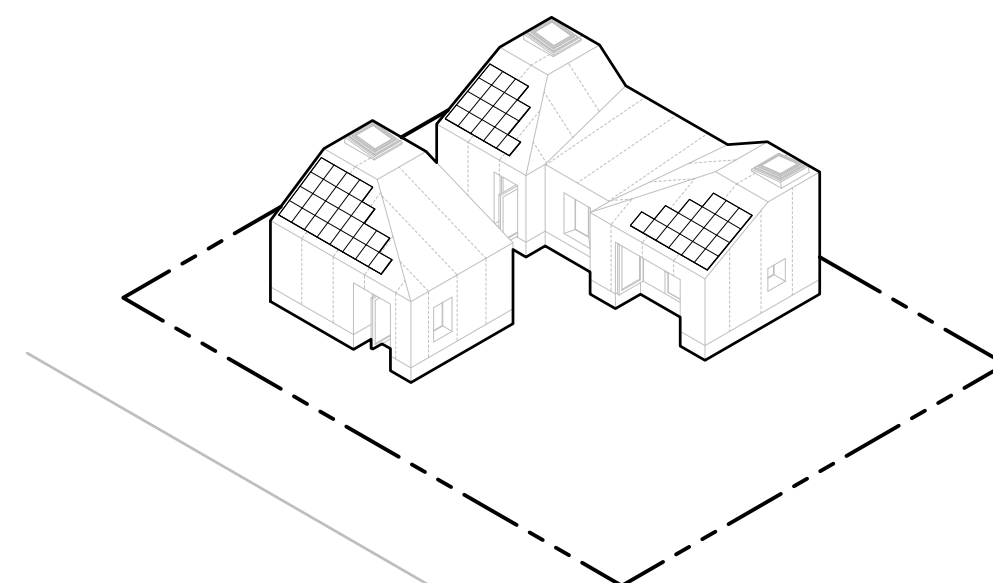
4. CLT FLOOR PANELS



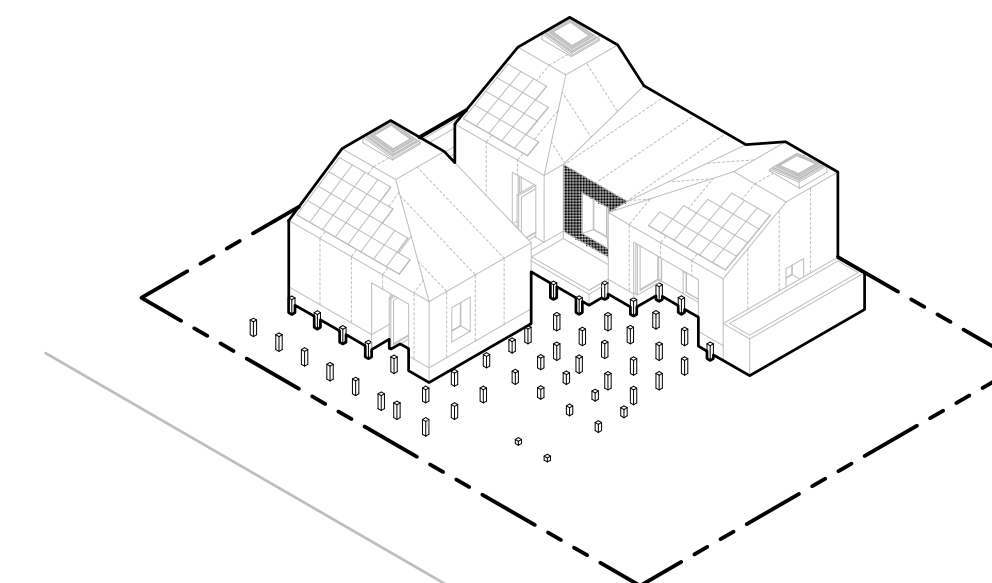
5. CLT WALLS/ ROOF ERECTION/ MOISTURE BARRIER



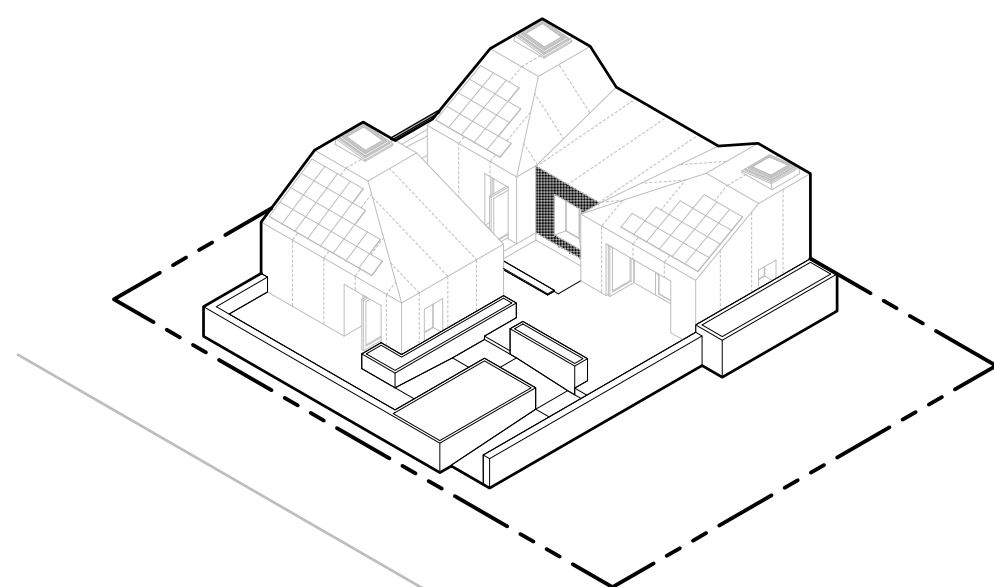
6. OPENINGS



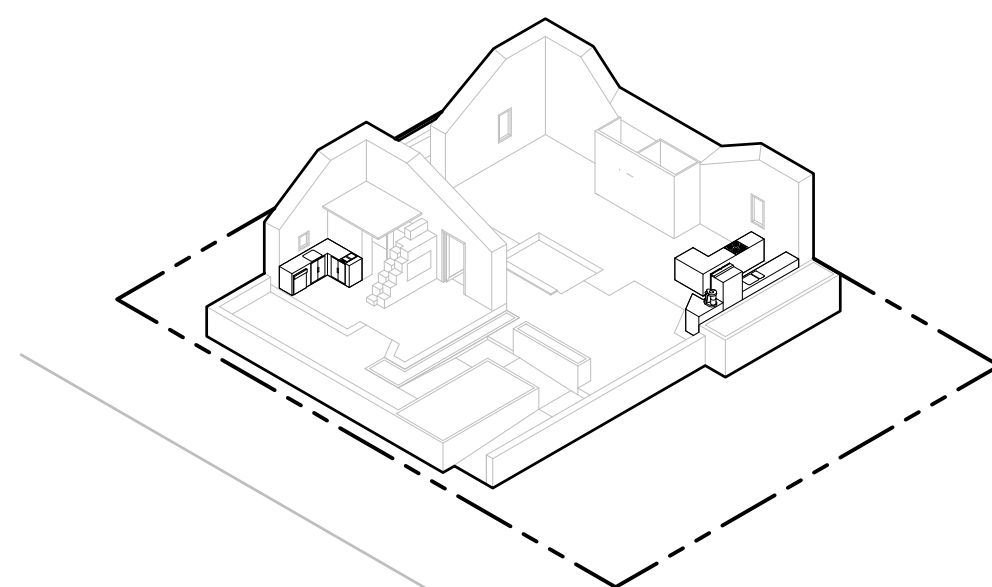
7. THERMAL ENVELOPE/ SOLAR PANEL ROUGH IN/ SMART HOME COMPONENT/ MEP ROUGH IN



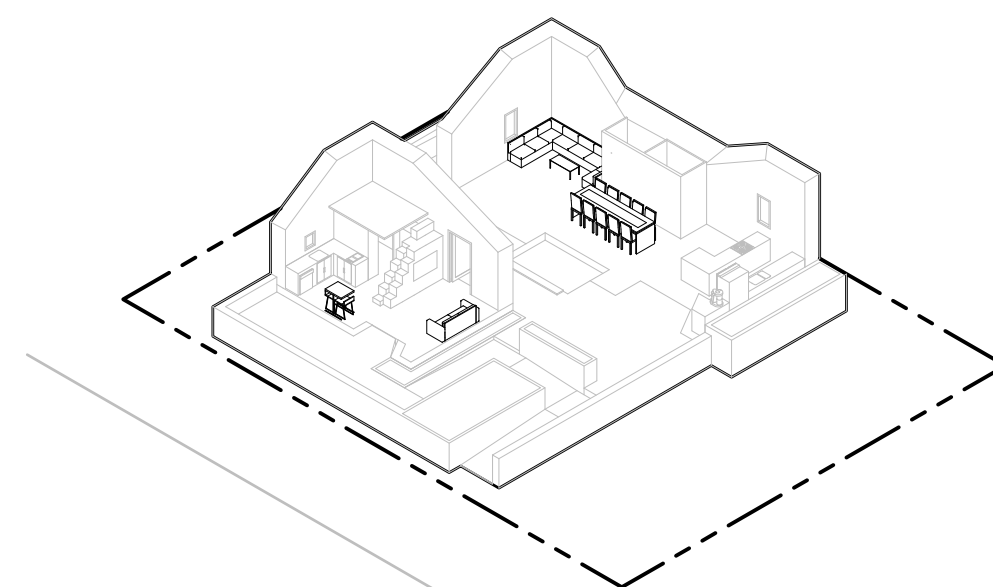
8. GREEN ROOF/ GREEN WALL/ DECK PIERS/ WATER FEATURES/ TANKS



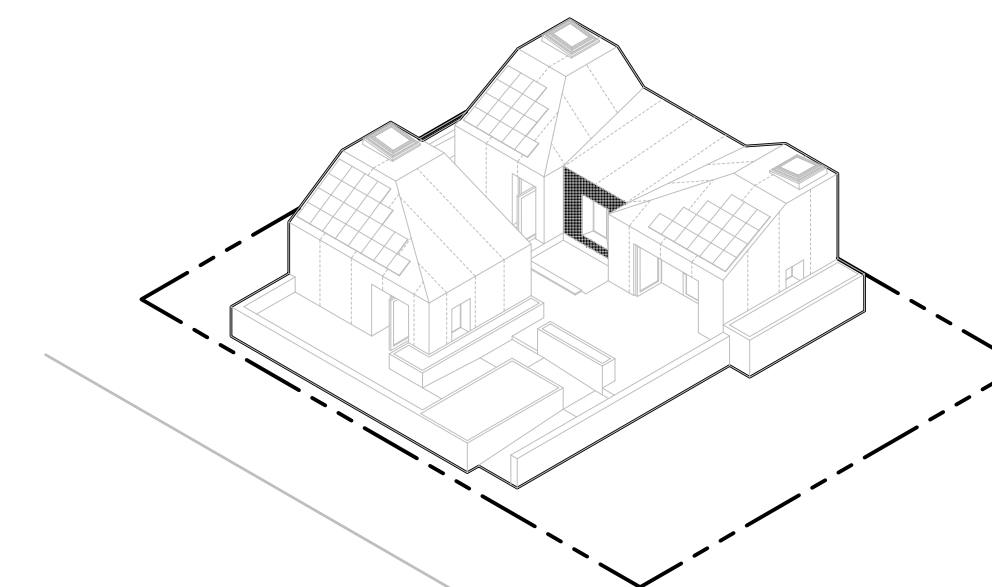
9. DECK FRAMING MODULES/ PLANTERS



10. CASEWORK/ FINISHES



11. FIXTURES/ FURNISHINGS



12. MEP TIE IN/ TESTING/ COMMISSIONING

A8 CONSTRUCTION ASSEMBLY SEQUENCE  
NTS

8/9/2017 10:28



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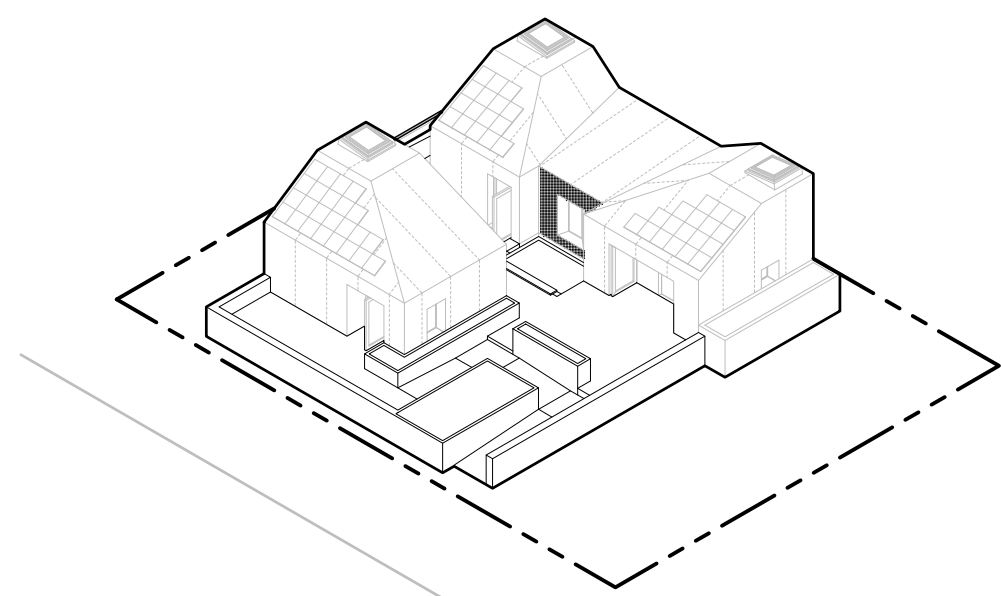
LOT NUMBER: LOT #107

SHEET TITLE:

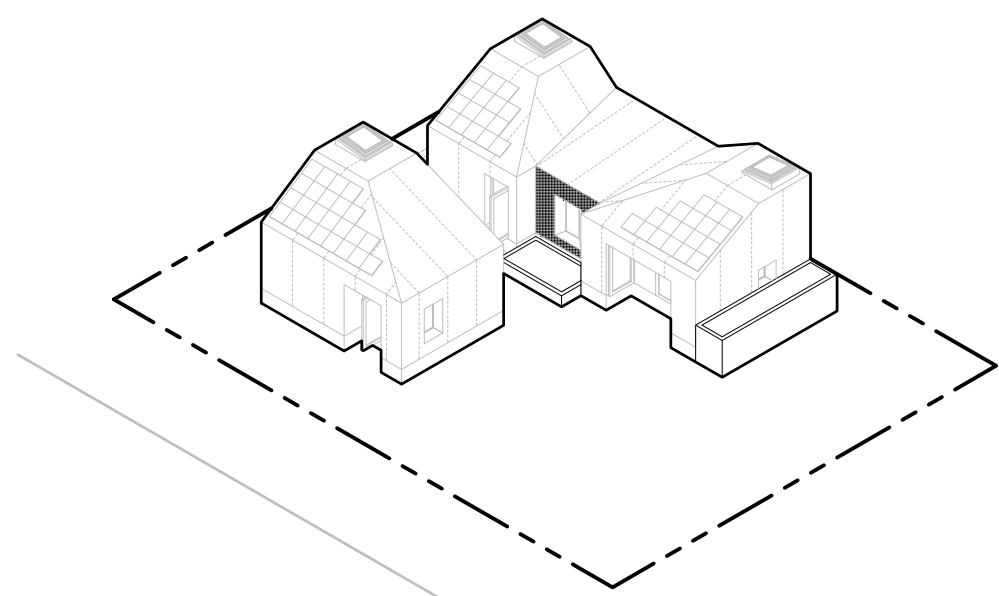
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DRAWN BY: CS CHECKED BY: SA

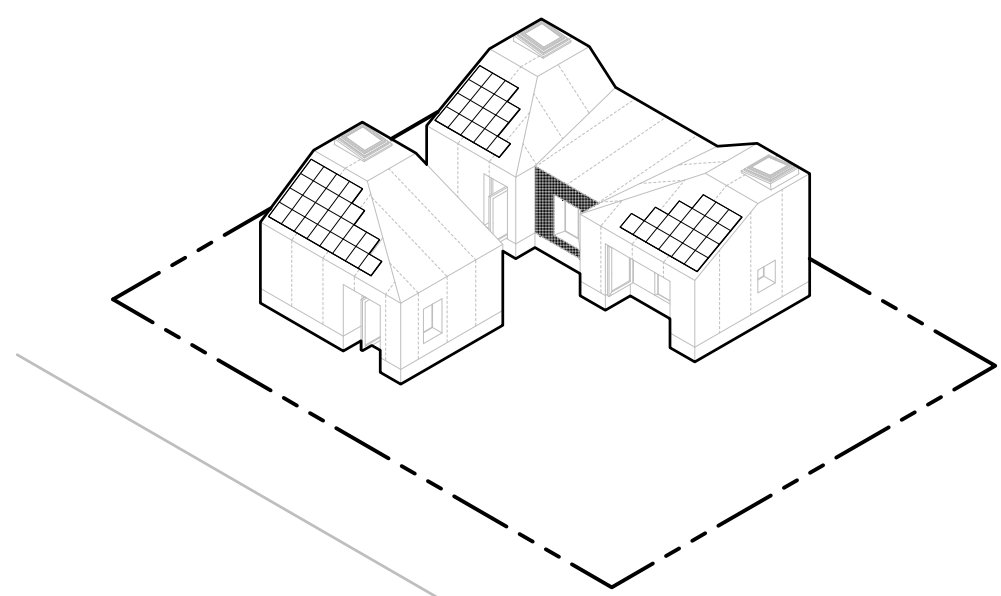
# 0-906



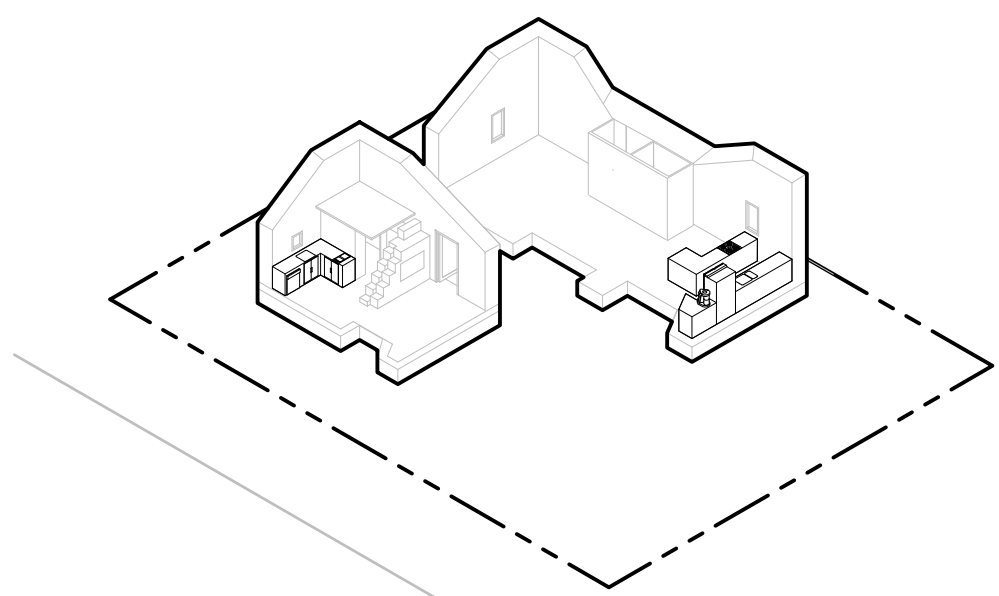
1. DRAIN WATER/ DISCONNECT UTILITIES



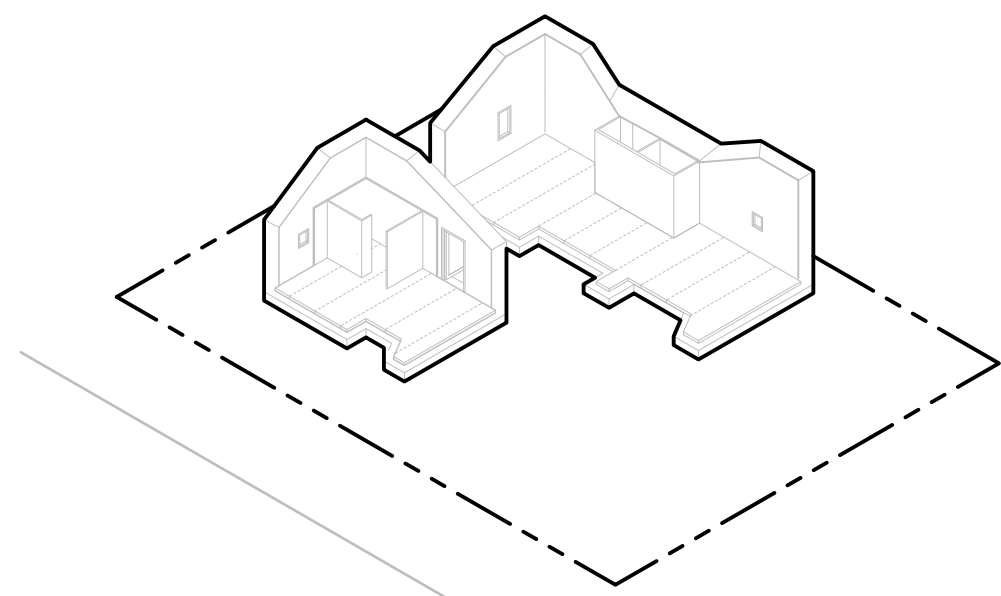
2. DISASSEMBLE DECK FRAMING MODULES/ PLANTERS



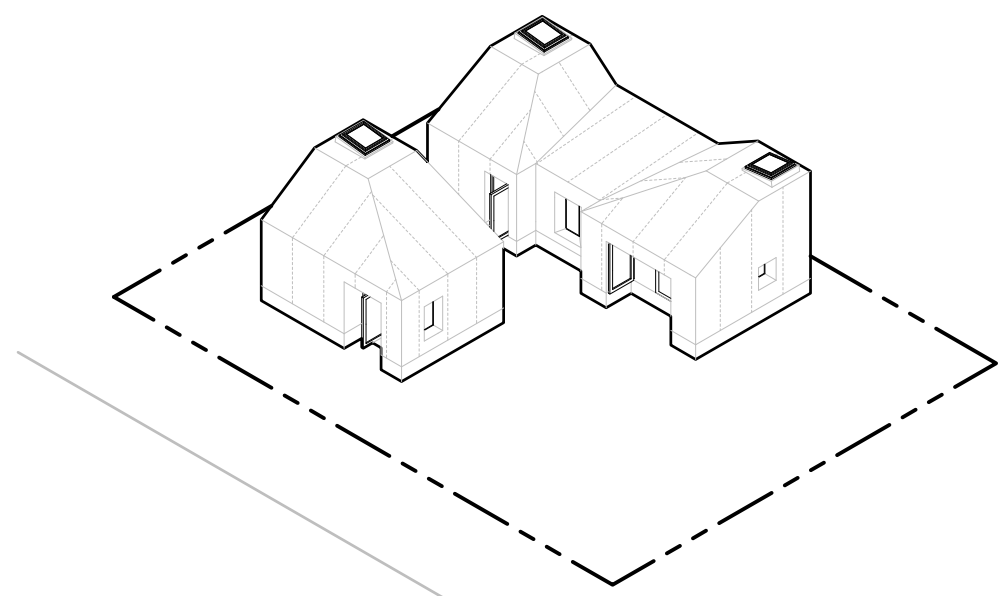
3. REMOVE TANKS/ EXTERIOR UTILITIES/ WATER FEATURE/ GREEN WALL



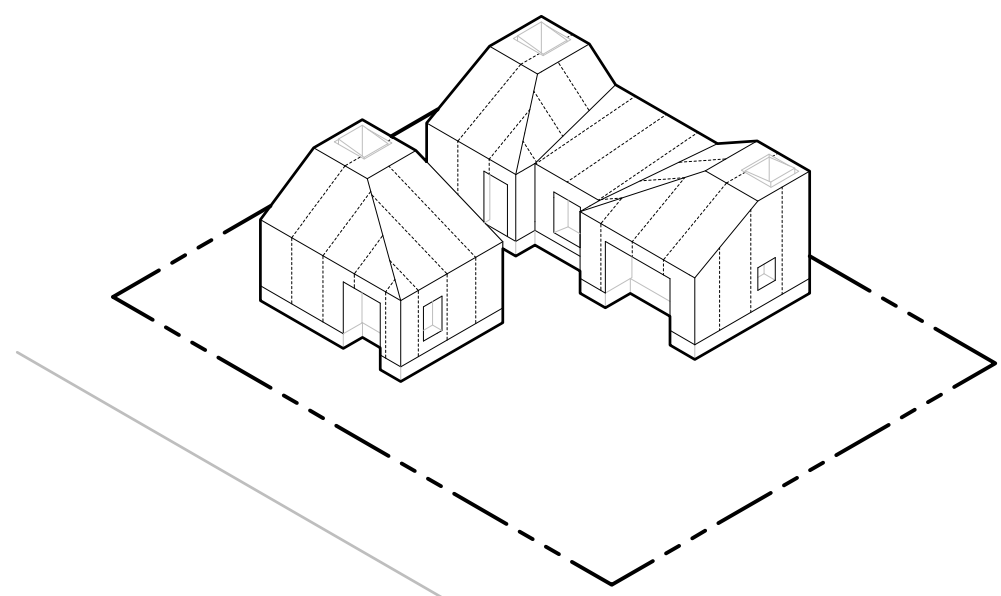
4. REMOVE FURNISHINGS/ FIXTURES



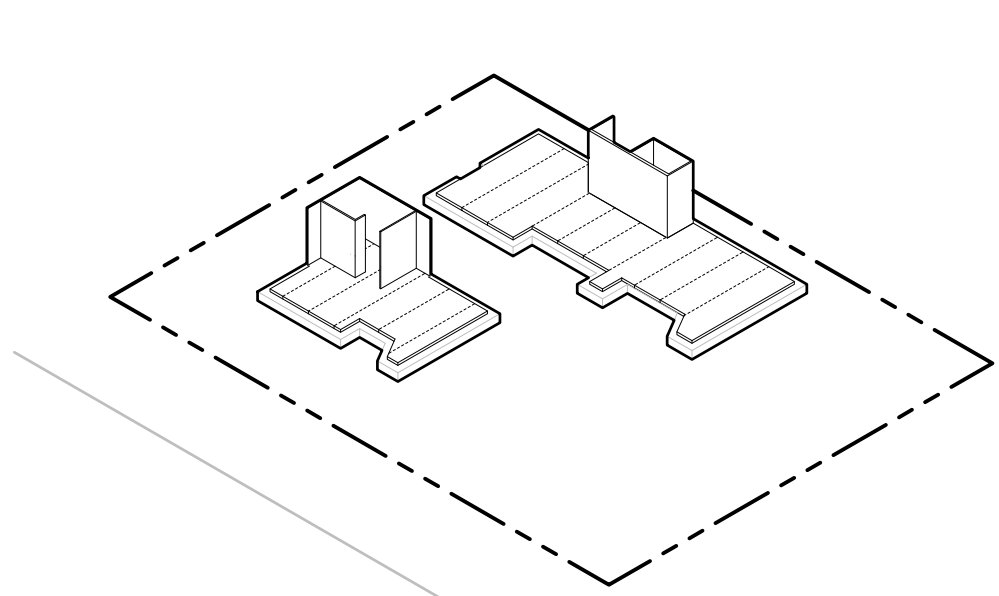
5. REMOVE FLOORING/ MEP DISASSEMBLY/ CASEWORK



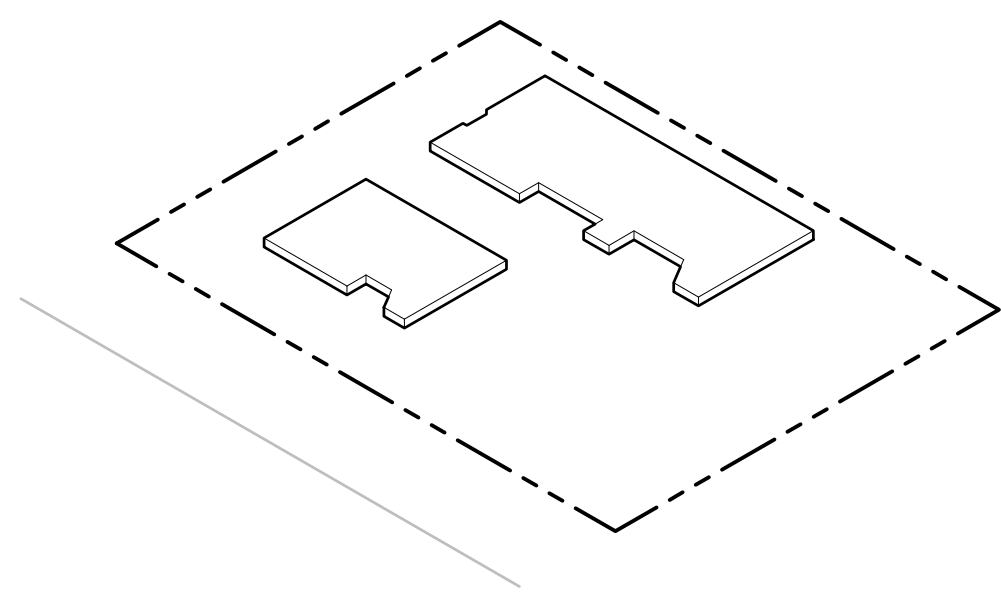
6. REMOVE SOLAR PANELS/ GREEN ROOF



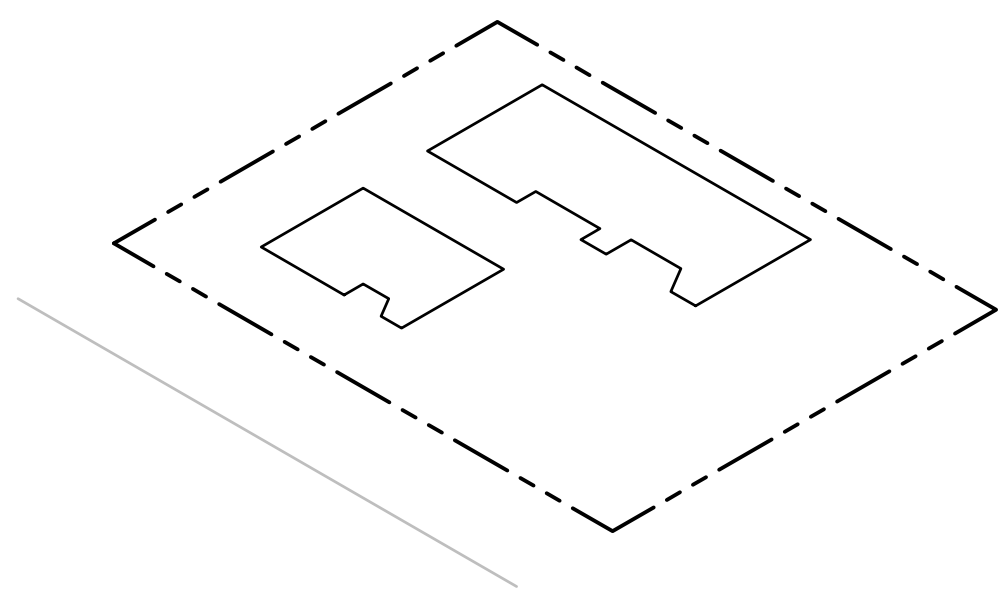
7. REMOVE THERMAL ENVELOPE/ OPENINGS



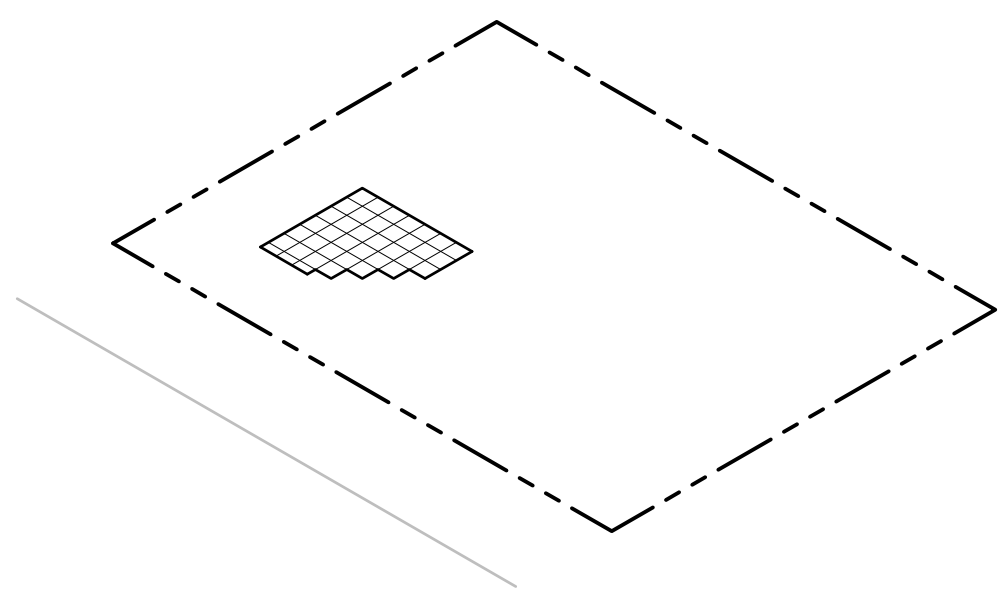
8. REMOVE CLT ROOF/ CLT WALLS/ SCAFFOLDING



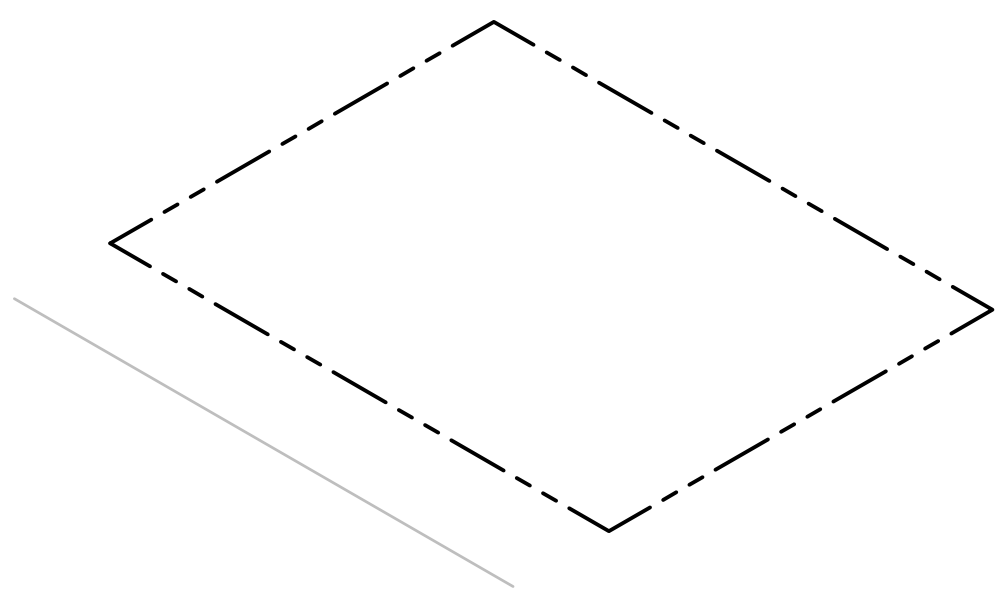
9. REMOVE CLT DECKING/ MODULES/ UTILITIES



10. REMOVE ANCHORS/ GEO FOAM



11. FLOWABLE FILL REMOVAL IN PAVER FORM



12. SITE CLEAN UP/ DEMOBILIZATION

## CONSTRUCTION DISASSEMBLY SEQUENCE

A7

NTS

5/10/2017 10:00



