

HOLD-DOWN SCHEDULE 1,2. Table with columns: HOLD-DOWN, ANCHOR BOLT, ANCHOR SIZE, EMBED LENGTH, WOOD MEMBER, UNITS, DETAIL(S), NOTES, ALLOWABLE LOAD (LBS).

- 1. ON ALL HO HOLD-DOWNS, PLACE (1) EXTRA VERTICAL #4 BAR FROM FOOTING INTO STEIN WALL NEXT TO HOLD-DOWN.
2. NOT ALL HOLD-DOWNS SHOWN MAY BE USED.

- NOTES:
1. REFER TO NAIL DIAMETERS FOR NAIL SIZE.
2. NAIL SPACED 4" O.C. EDGES, 10" O.C. AT INTERMEDIATE SUPPORTS, EXCEPT 4" O.C. AT ALL SUPPORTS WHERE SPANS ARE 48" OR MORE...

NAIL DIAMETERS table with columns: Diameter, Length, Application.

PRESCRIPTIVE NAILING SCHEDULE table with columns: NO., CONNECTION, TYPE, NAILING (NOTE 1).

GENERAL STRUCTURAL NOTES

CODE REQUIREMENTS: CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE 2014 OREGON STRUCTURAL SPECALITY CODE (OSSC).

DESIGN CRITERIA: DESIGN WAS BASED ON THE STRENGTH AND DEFLECTION CRITERIA OF THE OSSC. IN ADDITION TO THE DEAD LOADS, THE FOLLOWING LOADS AND ALLOWABLES WERE USED.

ROOF SNOW LOAD: PSF
LIVE LOAD: PSF (RESIDENCE AREA)
PSF (COMMON AREAS, CORRIDORS AND STAIRS)

SEISMIC: Sds = III, SITE CLASS D, R = III, I = III

WIND: MPH (SEC GUSTS) MPH EXPOSURE --

SOIL BEARING: PSF [SOIL REF.]

EXISTING CONDITIONS: THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES FROM CONDITIONS SHOWN ON THE DRAWINGS PRIOR TO THE START OF THE WORK.

TEMPORARY CONDITIONS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR STRUCTURAL STABILITY OF THE NEW AND EXISTING STRUCTURES AND WALLS DURING CONSTRUCTION. THE STRUCTURE SHOWN ON THE DRAWINGS HAS BEEN DESIGNED FOR STABILITY UNDER THE FINAL CONFIGURATION ONLY.

SUBMITTALS: SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER PRIOR TO FABRICATION AND CONSTRUCTION REGARDING ALL STRUCTURAL ITEMS, INCLUDING THE FOLLOWING:

NONE REQUIRED

IF THE SHOP DRAWINGS DIFFER FROM, OR ADD TO THE DESIGN OF THE STRUCTURAL DRAWINGS, THEY SHALL BE CLEARLY IDENTIFIED. ANY CHANGES TO THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER AND ARE SUBJECT TO REVIEW AND ACCEPTANCE OF THE ENGINEER.

PREFABRICATED WOOD ROOF TRUSS SHOP DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF OREGON, AND SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER PRIOR TO FABRICATION. DESIGN SHALL BE BASED ON THE REQUIREMENTS OF THE OSSC.

EARTHWORK: PROTECT INCOMPLETE WORK FROM FLOODING DURING STORMS OR OTHER CAUSES, THOROUGHLY BRACE OR OTHERWISE PROTECT ALL STRUCTURES NOT STABLE AGAINST UPLIFT DURING CONSTRUCTION. TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DISTURBANCE OF AND TO PROPERLY DRAIN THE AREAS UPON WHICH CONCRETE IS TO BE POURED. DO NOT ALLOW WATER TO ACCUMULATE IN EXCAVATIONS. REMOVE WATER TO PREVENT SOFTENING OF THE BASE FOUNDATIONS. CONVEY WATER REMOVED FROM THE EXCAVATIONS AND RAINWATER TO TEMPORARY DRAINAGE DITCHES OR OTHER STRUCTURES OUTSIDE THE EXCAVATION LIMITS FOR THIS STRUCTURE. ENSURE THAT THE WATERING OPERATIONS WILL NOT ADVERSELY EFFECT FOUNDATIONS. MAINTAIN THE EXCAVATION FREE FROM GROUND WATER FOR THE TIME REQUIRED TO COMPLETE THE WORK IN A PROPER WORKMANLIKE MANNER. REMOVE LOOSE OR DISTURBED SOIL FROM THE BOTTOMS OF EXCAVATION. FOOTINGS SHALL BEAR ON UNDISTURBED NATIVE SOIL OR COMPACTED STRUCTURAL FILL.

CAST-IN-PLACE CONCRETE: ADMIXTURES: AIR ENTRAINING AGENT IN ACCORDANCE WITH ASTM C260 AND WATER-REDUCING ADMIXTURE CONFORMING TO ASTM 494, USED IN STRICT ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS, MAY BE INCORPORATED IN CONCRETE DESIGN MIXES. AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260 SHALL BE USED IN CONCRETE MIXES FOR EXTERIOR HORIZONTAL SURFACES EXPOSED TO WEATHER. THE AMOUNT OF ENTRAINED AIR SHALL BE 5% - 7% BY VOLUME. FLY ASH SHALL BE 15% MIN (25% MAX) OF CEMENT CONTENT BY WEIGHT. MAXIMUM WATER-CEMENT RATIO SHALL BE 0.49.

CONCRETE WORK SHALL CONFORM TO ACI 301. CONCRETE STRENGTHS SHALL BE VERIFIED BY STANDARD 28-DAY CYLINDER TESTS PER ASTM C39, AND SHALL BE AS FOLLOWS:

FOOTINGS, SLABS AND WALLS: fc=3,000 PSI AT 28 DAYS; MAXIMUM SLUMP 3" PLUS OR MINUS 1".

SLEEVES, OPENINGS, CONDUIT, AND OTHER EMBEDDED ITEMS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER BEFORE POURING. CONDUITS EMBEDDED IN SLABS SHALL NOT BE LARGER THAN ONE THIRD OF THE THICKNESS OF THE SLAB AND SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS ON CENTER. PROVIDE 3/4 CHAMFERS ON ALL EXPOSED CONCRETE EDGES UNLESS NOTED OTHERWISE.

REINFORCING STEEL: REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60 FOR DEFORMED BARS, UNLESS OTHERWISE NOTED. REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A82 AND A185.

REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH ACI 315- LATEST EDITION ("DETAILS AND DETAILING CONCRETE REINFORCEMENT") AT SPLICES LAP REINFORCEMENT A MINIMUM OF 48 BAR DIAMETERS UNLESS NOTED OTHERWISE. STAGGER SPLICES IN FOOTINGS, BEAMS, COLUMNS AND WALLS A MINIMUM OF 24" UNLESS NOTED OTHERWISE.

REINFORCING STEEL SHALL HAVE PROTECTION AS FOLLOWS:

CONDITION: MINIMUM COVER

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"

CONCRETE EXPOSED TO EARTH AND WEATHER: NO. 6 THROUGH NO. 18 BARS: 2" NO. 5 BAR, W31 OR D31 WIRE AND SMALLER: 1 1/2"

CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH: SLABS, WALLS, AND JOISTS NO. 14 AND NO. 18 BARS: 1 1/2" NO. 11 BARS AND SMALLER: 3/4"

BEAMS AND COLUMNS - PRIMARY REINFORCEMENT, TIES, STIRRUPS AND SPIRALS: 1 1/2"

CONCRETE ACCESSORIES: ANCHOR BOLTS SHALL BE ASTM F1554-36, UNLESS NOTED OTHERWISE. CONCRETE EXPANSION ANCHORS SHALL BE "SIMPSON STRONG-BOLT ANCHORS" OR ENGINEER APPROVED EQUIVALENT.

METALS: ALL STRUCTURAL AND MISCELLANEOUS STEEL: ASTM A36 (Fy=36,000 PSI) UNLESS NOTED OTHERWISE ALL WF STEEL: ASTM A992 (Fy=50,000 PSI) T.S. COLUMN: ASTM A500, GRADE "B" (Fy=46,000 PSI).

ALL BOLTS: ASTM A307 UNLESS NOTED OTHERWISE. ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS. ALL STEEL SHALL HAVE SHOP COAT IN ACCORDANCE WITH ARCHITECTURAL SPECIFICATIONS. ALL EXPOSED STEEL BELOW FINISH GRADE TO BE COATED WITH ASPHALTIC PAINT PRIOR TO BACKFILLING.

DESIGN, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH THE "AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS". WELDING SHALL CONFORM TO THE AWS CODES FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION AND SHALL BE 3/16" MINIMUM UNLESS OTHERWISE NOTED. WELDING SHALL BE BY AWS CERTIFIED WELDERS. PREQUALIFIED WELDING PROCEDURES ARE TO BE USED, UNLESS AWS QUALIFICATION IS SUBMITTED TO THE ARCHITECT/ENGINEER PRIOR TO FABRICATION.

CARPENTRY: SAWN LUMBER DESIGN IS BASED ON THE NATIONAL DESIGN SPECIFICATION, LATEST EDITION. SAWN LUMBER SHALL CONFORM TO WEST COAST LUMBER INSPECTION BUREAU OR WESTERN WOOD PRODUCTS ASSOCIATION GRADING RULES. WALL STUDS AND PLATES MAY BE D.F. STUD GRADE OR BETTER. ALL OTHER LUMBER NOT SPECIFICALLY NOTED IS TO BE D.F. #2 OR BETTER. ALL WOOD IN PERMANENT CONTACT WITH CONCRETE OR CMU SHALL BE PRESSURE TREATED UNLESS AN APPROVED BARRIER IS PROVIDED. EXPOSED TIMBER FRAMING SHALL BE PRESSURE-TREATED OR WESTERN CEDAR WOOD. FRAMING ACCESSORIES AND STRUCTURAL FASTENERS SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE COMPANY (OR ENGINEER APPROVED EQUAL) AND OF THE SIZE AND TYPE SHOWN ON THE DRAWINGS. HANGERS NOT SHOWN SHALL BE SIMPSON HU OF SIZE RECOMMENDED FOR MEMBER. ALL FRAMING NAILS SHALL BE COMMON NAILS. NO BOX NAILS ALLOWED. NAILING NOT SPECIFICALLY IDENTIFIED ON THE DRAWINGS SHALL CONFORM TO NAILING SCHEDULE ON PLANS.

PLYWOOD PANELS SHALL CONFORM TO THE REQUIREMENTS OF "U.S. PRODUCT STANDARD PS 1 FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD" OR APA PRP-108 PERFORMANCE STANDARDS. UNLESS NOTED, PANELS SHALL BE APA RATED SHEATHING, STRUCTURAL 1, OF THE THICKNESS AND SPAN RATING SHOWN ON THE DRAWINGS. PLYWOOD INSTALLATION SHALL BE IN CONFORMANCE WITH APA RECOMMENDATIONS. ALLOW 1/8" SPACING AT PANEL ENDS AND EDGES, UNLESS OTHERWISE RECOMMENDED BY THE PANEL MANUFACTURER.

ALL ROOF AND FLOOR SHEATHING SHALL BE INSTALLED WITH FACE GRAIN PERPENDICULAR TO SUPPORTS, EXCEPT AS INDICATED ON THE DRAWINGS. FLOOR SHEATHING BE SHALL TONGUE-AND-GROOVE. SHEAR WALL SHEATHING SHALL BE BLOCKED WITH 2X FRAMING AT ALL PANEL EDGES. NAILING NOT SPECIFICALLY IDENTIFIED ON THE DRAWINGS SHALL CONFORM TO IBC TABLE 2304.9.1. OSB MAY BE SUBSTITUTED FOR SPECIFIED PLYWOOD SHEATHING ON FLOORS AND WALLS. OSB MAY NOT BE USED FOR ROOF SHEATHING OR NON-VERTICAL SURFACES THAT MAY BE EXPOSED TO EXTERIOR MOISTURE.

GLUED LAMINATED MEMBERS SHALL BE FABRICATED IN CONFORMANCE WITH U.S. PRODUCT STANDARD PS 56, "STRUCTURAL GLUED LAMINATED TIMBER" AND AMERICAN INSTITUTE OF TIMBER CONSTRUCTION, ATC 117. EACH MEMBER SHALL BEAR AN AITC OR APA-EWS IDENTIFICATION MARK AND BE ACCOMPANIED BY A CERTIFICATE OF CONFORMANCE. ONE COAT OF END SEALER SHALL BE APPLIED IMMEDIATELY AFTER TRIMMING IN EITHER SHOP OR FIELD. GLULAM HANGERS NOT SHOWN SHALL BE SIMPSON EG. BEAMS SHALL BE VISUALLY GRADED WESTERN SPECIES INDUSTRIAL GRADE, AND OF THE STRENGTH INDICATED BELOW.

Table with columns: DEPTH, COMBINATION SYMBOL, SPECIES, USE (SIMPLE SPAN, CONTINUOUS OR CANTILEVER).

INSTALL STEEL PLATE WASHERS BETWEEN ALL WOOD AND BOLT NUTS AND HEADS. NO WASHER IS REQUIRED IF BOLT HEAD OR NUT BEARS ON STEEL PLATE.

PREMANUFACTURED WOOD JOISTS SHALL BE OF THE SIZE AND TYPE SHOWN ON THE DRAWINGS, MANUFACTURED BY THE I-LEVEL COMPANY, OR AN ENGINEER APPROVED EQUAL. PROVIDE BRIDGING IN CONFORMANCE WITH THE MANUFACTURERS' RECOMMENDATIONS. JOISTS AND BRIDGING SHALL BE CAPABLE OF RESISTING THE WIND UPLIFT NOTED ON THE DRAWINGS. THE JOIST MANUFACTURER SHALL VISIT JOB SITE AS REQUIRED AND VERIFY THE PROPER INSTALLATION OF JOISTS IN WRITING TO THE ARCHITECT/ENGINEER. PREMANUFACTURED WOOD JOIST ALTERNATES WILL BE CONSIDERED, PROVIDED THE ALTERNATE IS COMPATIBLE WITH THE LOAD CAPACITY, STIFFNESS, DIMENSIONAL, AND FIRE RATING REQUIREMENTS OF THE PROJECT, AND IS ICC APPROVED.

MECHANICAL: THE CONTRACTOR SHALL COORDINATE SEISMIC RESTRAINTS OF ELECTRICAL EQUIPMENT, MECHANICAL, PLUMBING, FIRE SPRINKLER, MACHINERY AND ASSOCIATED PIPING WITH THE STRUCTURE. ANY CONNECTIONS TO STRUCTURE NOT CONFORMING TO SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION (SMACNA), OR SPECIFICALLY DETAILED ON THE MECHANICAL ENGINEER'S DRAWINGS SHALL BE DETAILED BY AN ENGINEER REGISTERED IN THE STATE OF OREGON AND SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER PRIOR TO FABRICATION.

INSPECTION: SPECIAL INSPECTIONS: IN ACCORDANCE WITH SECTION 1704 OF THE OSSC AND APPLICABLE SECTIONS OF THE PROJECT SPECIFICATIONS. SPECIAL INSPECTIONS ARE TO BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY EMPLOYED BY THE OWNER FOR THE FOLLOWING AREAS OF WORK:

NONE REQUIRED

STRUCTURAL OBSERVATIONS: STRUCTURAL OBSERVATIONS BY THE ENGINEER OF RECORD OR AN APPOINTED REPRESENTATIVE SHALL BE REQUIRED AT THE FOLLOWING TIMES DURING CONSTRUCTION:

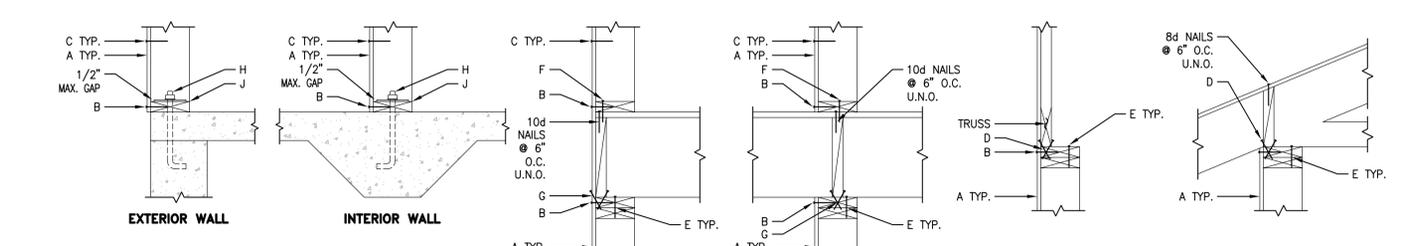
NONE REQUIRED

DEFERRED STRUCTURAL SUBMITTALS:

NONE REQUIRED

SHEAR WALL SCHEDULE 2,3,7,9,12. Table with columns: WALL TYPE, SHEATHING, PANEL EDGE NAILING, FIELD NAILING, SHEATHING COMMENTS, ROOF BLOCK TO TOP PLATE, DOUBLE TOP PLATES, BOT PLATE TO RIM JOIST, RIM JOIST TO DBL TOP PL (OR ROOF TRUSS TO DBL TOP PL), SILL PLATE CONNECTION (DIAx10" LONG ANCHOR BOLTS), SILL PLATE THICKNESS, SHEAR.

- 1. NOT ALL WALL TYPES SHOWN MAY BE USED ON PROJECT.
2. BLOCK ALL PANEL EDGES UNLESS NOTED OTHERWISE.
3. NOT USED.
4. USE EITHER 1/2" OR 5/8" DIAMETER ANCHOR BOLTS. (2) ANCHOR BOLTS MIN PER PLATE.
5. WHERE PANELS ARE APPLIED ON BOTH SIDES OF A WALL AND NAIL SPACING IS LESS THAN 6 INCHES ON CENTER ON EITHER SIDE, PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS AND FRAMING AT PANEL JOINTS SHALL BE 3-INCH NOMINAL OR THICKER AND NAILS ON EACH SIDE SHALL BE STAGGERED
6. 1/2" DIA. HILTI KWIK BOLT TZ OR EQUAL MAY BE SUBSTITUTED. EMBED BOLT 2 3/4" INTO CONCRETE.
7. SHEATHING ON SHEAR WALLS SHALL NOT BE INTERRUPTED BY ANY WALL BUTTING INTO SHEAR WALL. REFERENCE DETAIL 1/S1.2.
8. SLOTTED STEEL PLATE WASHERS, 3 GA x 3" x 4 1/2" REQUIRED BETWEEN SILL PLATE AND ANCHOR BOLT NUT. PROVIDE MINIMUM SPACING FROM WASHER TO F.O. BOTTOM PLATE ON SHEATHING SIDE AS SHOWN.
9. ALL FRAMING MEMBERS RECEIVING EDGE NAILING FROM ABUTTING PANELS W/ NAIL SPACING 3" AND LESS SHALL NOT BE LESS THAN A SINGLE 3-INCH NOMINAL MEMBER. PLYWOOD JOINT AND SILL PLATE NAILING SHALL BE STAGGERED. SEE DETAIL S/54.0.



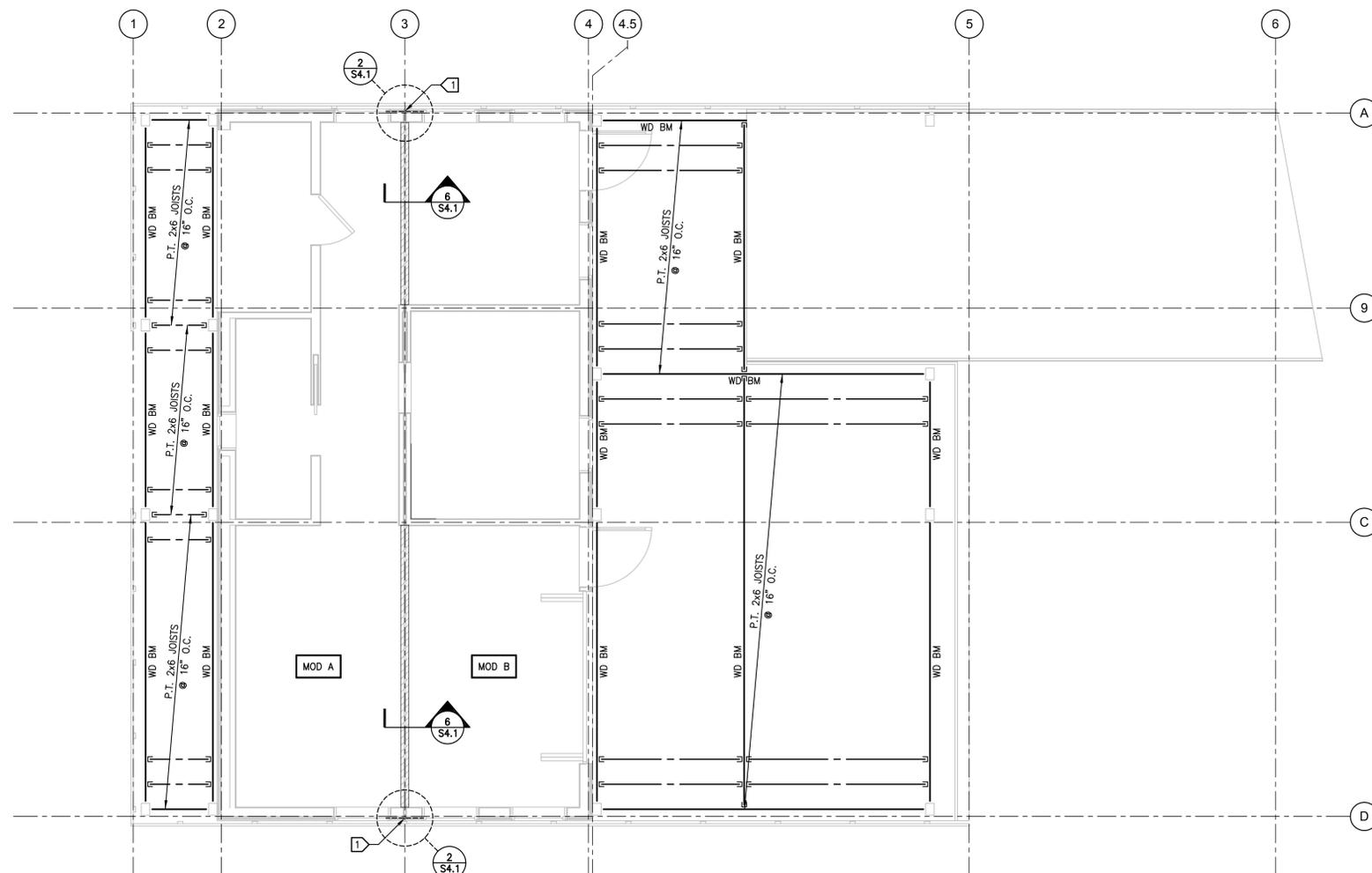
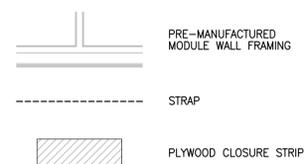
MOD FOUNDATION PLAN NOTES

A. FOR TYPICAL PRE-MANUFACTURED MOD FABRICATION INFORMATION, SEE SHEET S5.0

MOD FOUNDATION PLAN KEYNOTES

- 1. STRAPPING PER DETAIL, TYPICAL AT MOD-TO-MOD CONNECTIONS
- 2. 16"x48" CLOSURE STRIP AT MOD-TO-MOD CONNECTION AT FLOOR FRAMING. SEE DETAIL

MOD FOUNDATION PLAN LEGEND



1 MOD ASSEMBLY / DECK FRAMING PLAN
1/4"=1'-0"

SHOWING FOUNDATION / 1ST FLOOR MOD WALLS & DECK ABOVE

**YALE UNIVERSITY
SOLAR DECATHALON**

**FOUNDATION
PLAN**

ISSUE: 08/07/15
PROGRESS SET

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DATE: 08.07.15
SHEET SIZE: 24x36
DRAWN BY: WEM, RPH
CHK'D BY: RPH

SHEET

S2.0

PROJECT No.: **15226.00**

PLOT DATE: 08/07/2015 3:51:06 PM

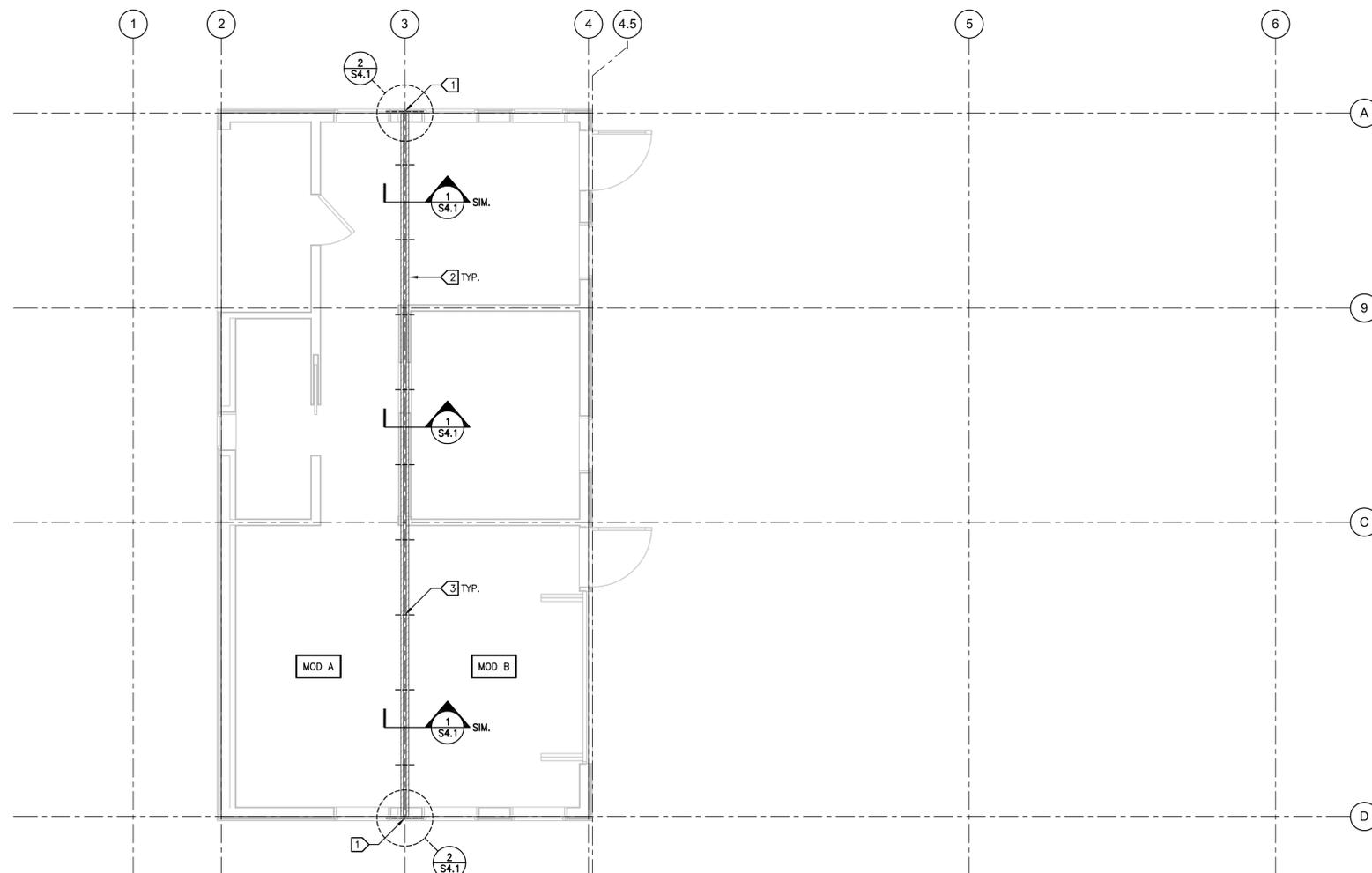
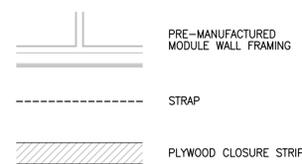
MOD ASSEMBLY PLAN NOTES

A. FOR TYPICAL PRE-MANUFACTURED MOD FABRICATION INFORMATION, SEE SHEET S5.0

MOD ASSEMBLY PLAN KEYNOTES

- 1. STRAPPING PER DETAIL, TYPICAL AT MOD-TO-MOD CONNECTIONS
- 2. PLYWOOD CLOSURE STRIP, TYPICAL FOR MOD-TO-MOD CONNECTION ALONG MATE LINE AT ROOF FRAMING. SEE DETAIL
- 3. SIMPSON LSTA12 STRAP @ 4'-0". SEE S/S4.1

MOD ASSEMBLY PLAN LEGEND



MOD ASSEMBLY PLAN
1/4"=1'-0"

SHOWING ROOF / 1ST FLOOR MOD WALLS BELOW

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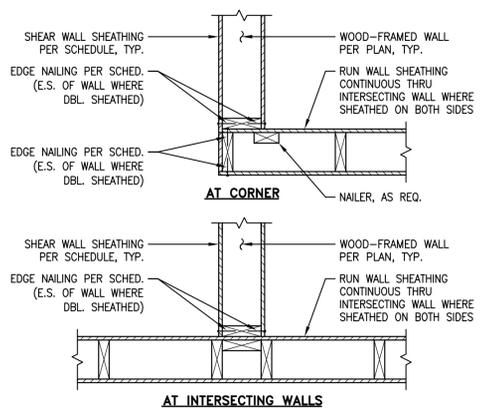
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S2.1

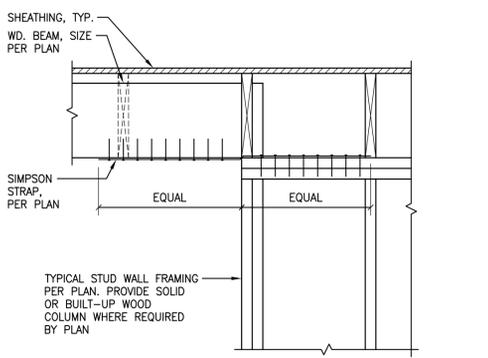
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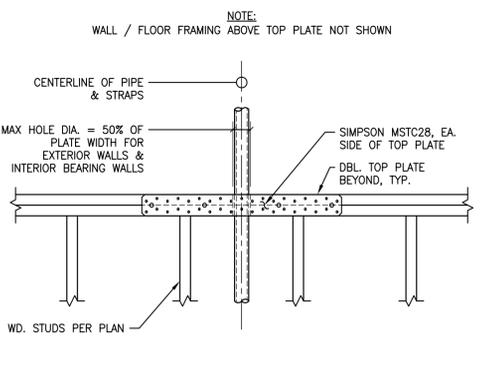


1 SHEAR WALL INTERSECTION FRAMING
 S4.0 1"=1'-0"

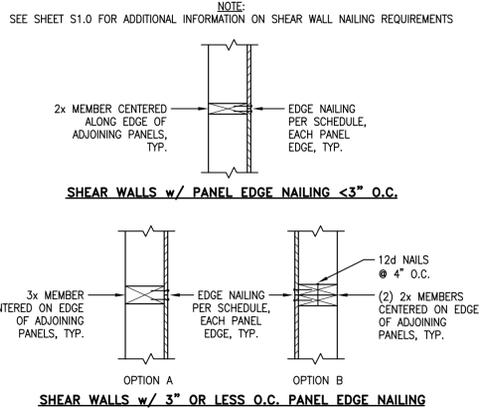


6 COLLECTOR STRAP DETAIL
 S4.0 1"=1'-0"

11 NOT USED
 S4.0 1"=1'-0"



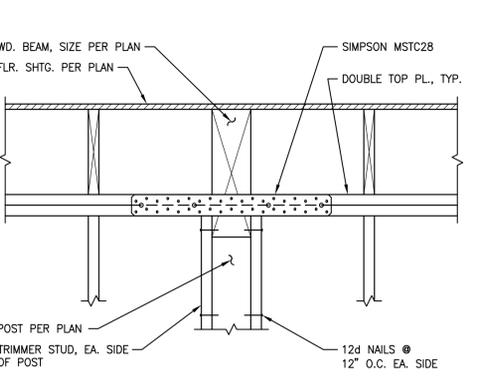
16 PIPE PENETRATIONS THRU TOP PLATE
 S4.0 1"=1'-0"



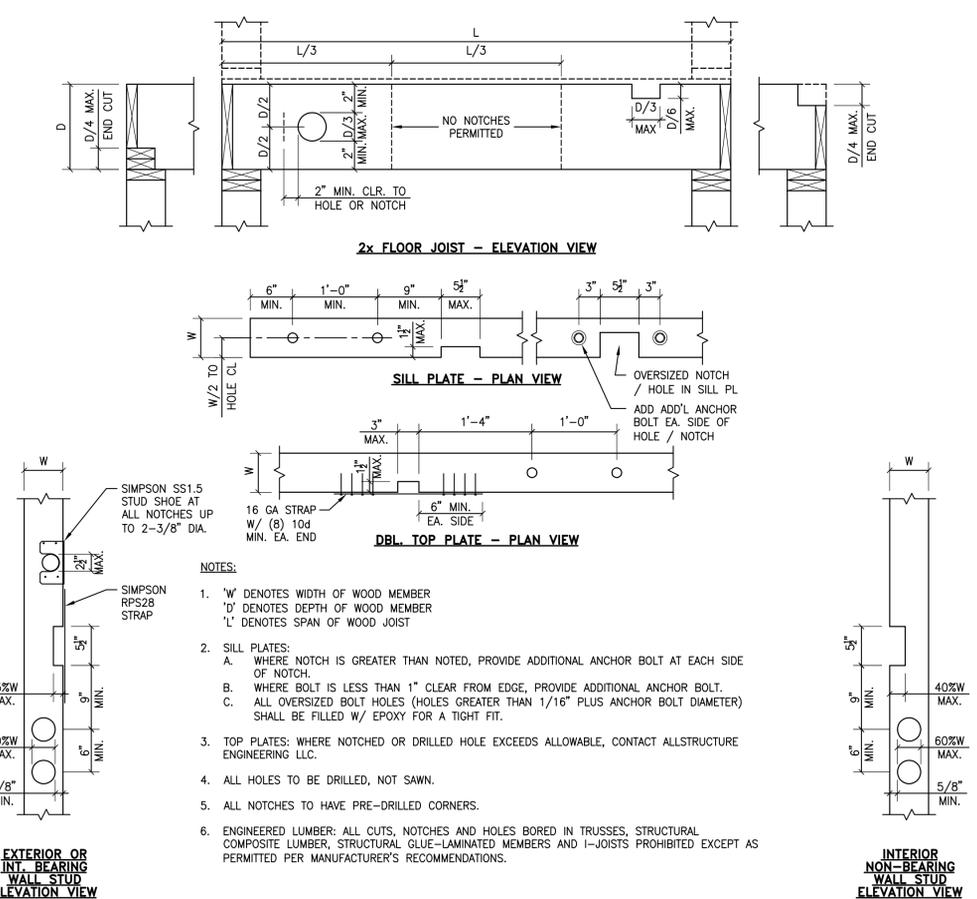
2 ADJOINING SHEAR WALL PANEL NAILING
 S4.0 1"=1'-0"

7 NOT USED
 S4.0 1"=1'-0"

12 NOT USED
 S4.0 1"=1'-0"

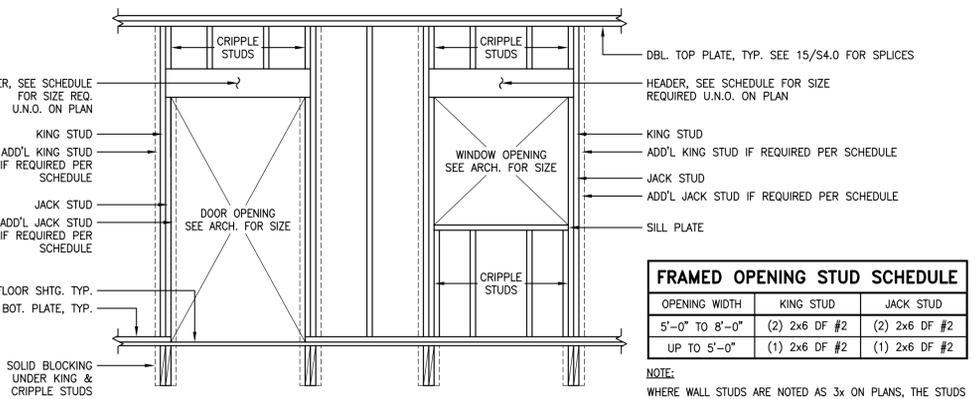


17 BEAM TO WOOD POST CONNECTION
 S4.0 1"=1'-0"

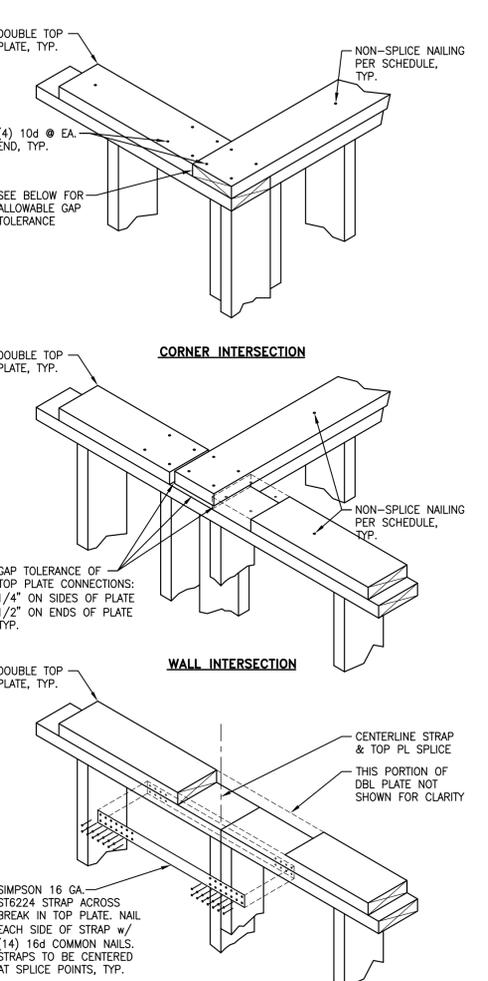


8 ALLOWABLE HOLES, CUTS & NOTCHES IN SOLID WOOD FRAMING
 S4.0 1"=1'-0"

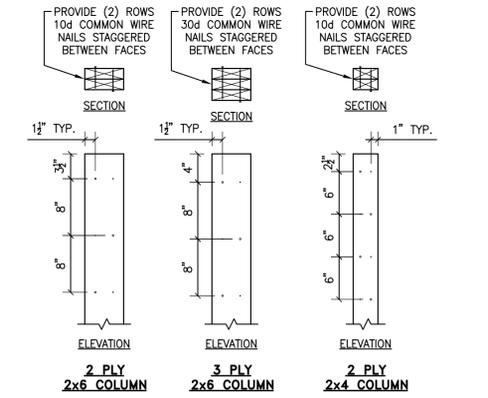
13 TYPICAL HEADER / SILL FRAMING
 S4.0 1/2"=1'-0"



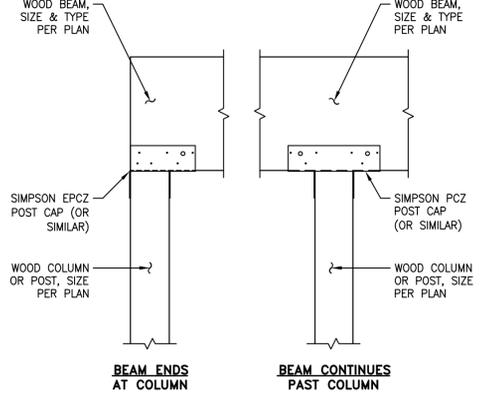
18 NOT USED
 S4.0 1"=1'-0"



15 TYPICAL TOP PLATE CONNECTIONS
 S4.0 1"=1'-0"

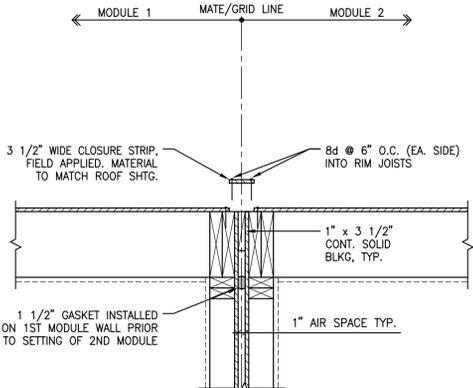


20 BUILT-UP WOOD COLUMNS
 S4.0 1"=1'-0"



19 TYPICAL WD. BEAM TO COLUMN DETAIL
 S4.0 1"=1'-0"

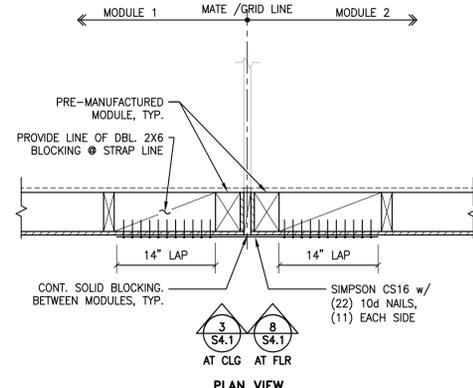
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NOTE:
NO FRAMED WALL AT SIM. CONDITION

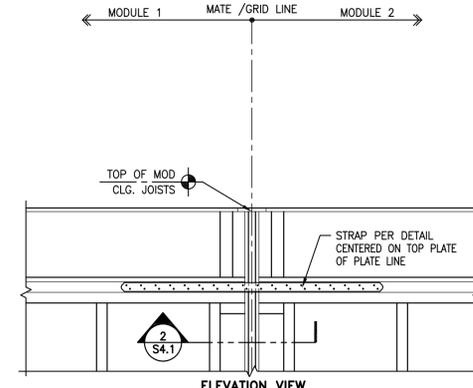
1 TYP. MOD-TO-MOD CONNECTION AT ROOF

S4.1 1'-1'-0"



2 TYPICAL MODULE-TO-MODULE CONNECTION @ EXTERIOR WALL

S4.1 1'-1'-0"

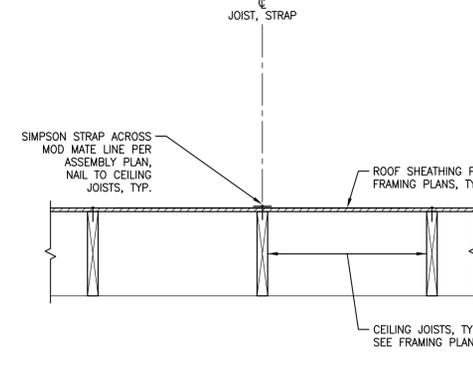


3 STRAPPED MODULE-TO-MODULE CONNECTION @ EXT. WALL CLG. LINE

S4.1 1'-1'-0"

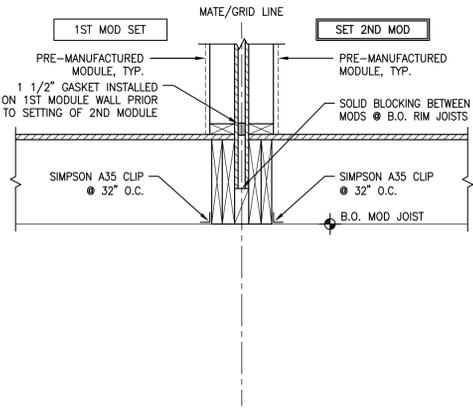
4 NOT USED

S4.1 1'-1'-0"



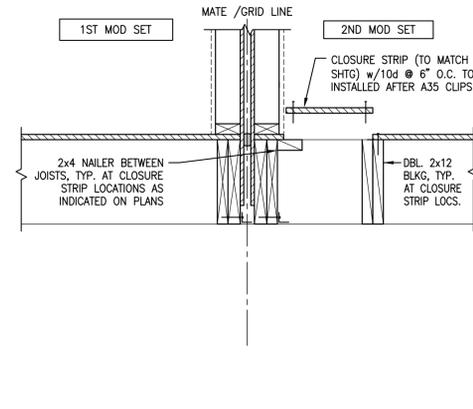
5 DRAG STRUT STRAP AT PARALLEL JOISTS

S4.1 1'-1'-0"



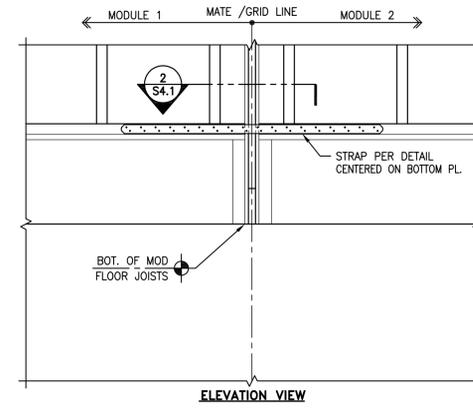
6 TYP. MOD-TO-MOD CONNECTION AT FLR.

S4.1 1'-1'-0"



7 TYPICAL MODULE-TO-MODULE CONNECTION @ EXTERIOR WALL FLR. LINE

S4.1 1'-1'-0"



8 STRAPPED MODULE-TO-MODULE CONNECTION @ EXT. WALL FLR. LINE

S4.1 1'-1'-0"

9 NOT USED

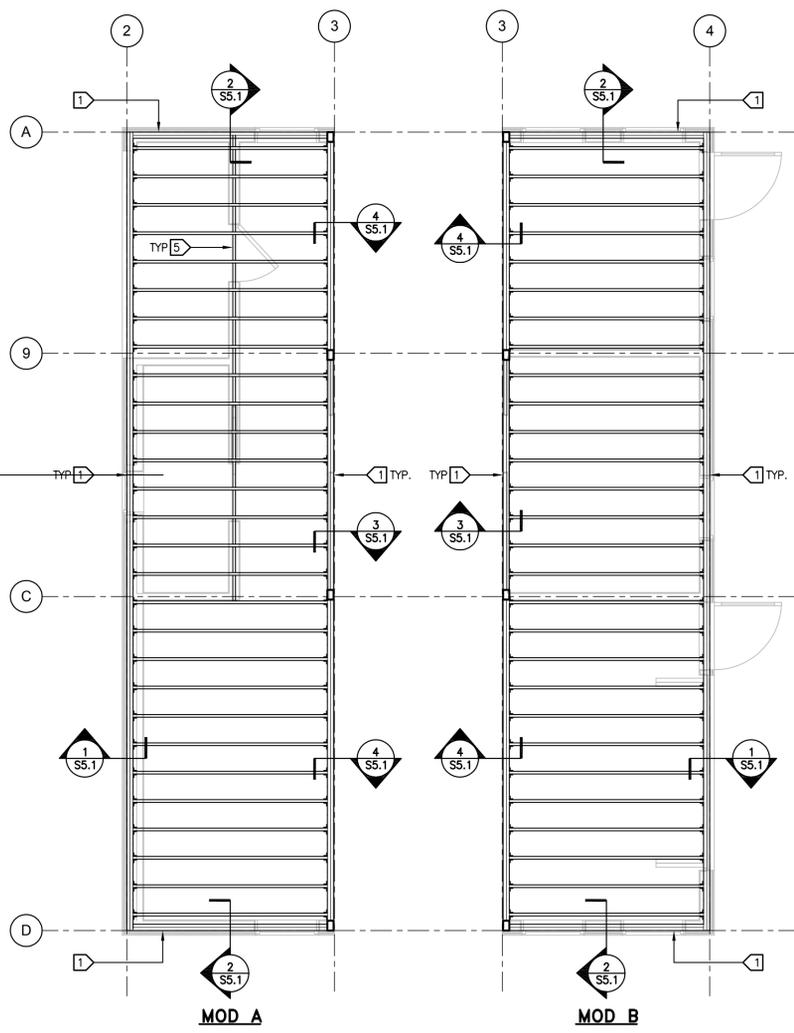
S4.1 1'-1'-0"

10 NOT USED

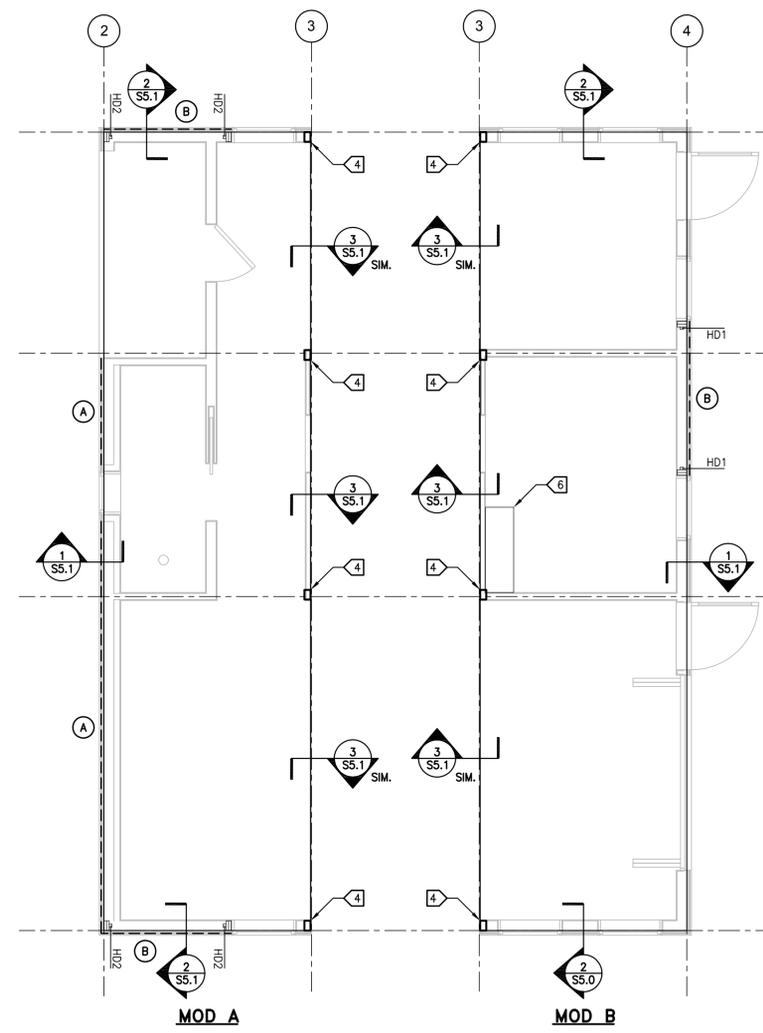
S4.1 1'-1'-0"

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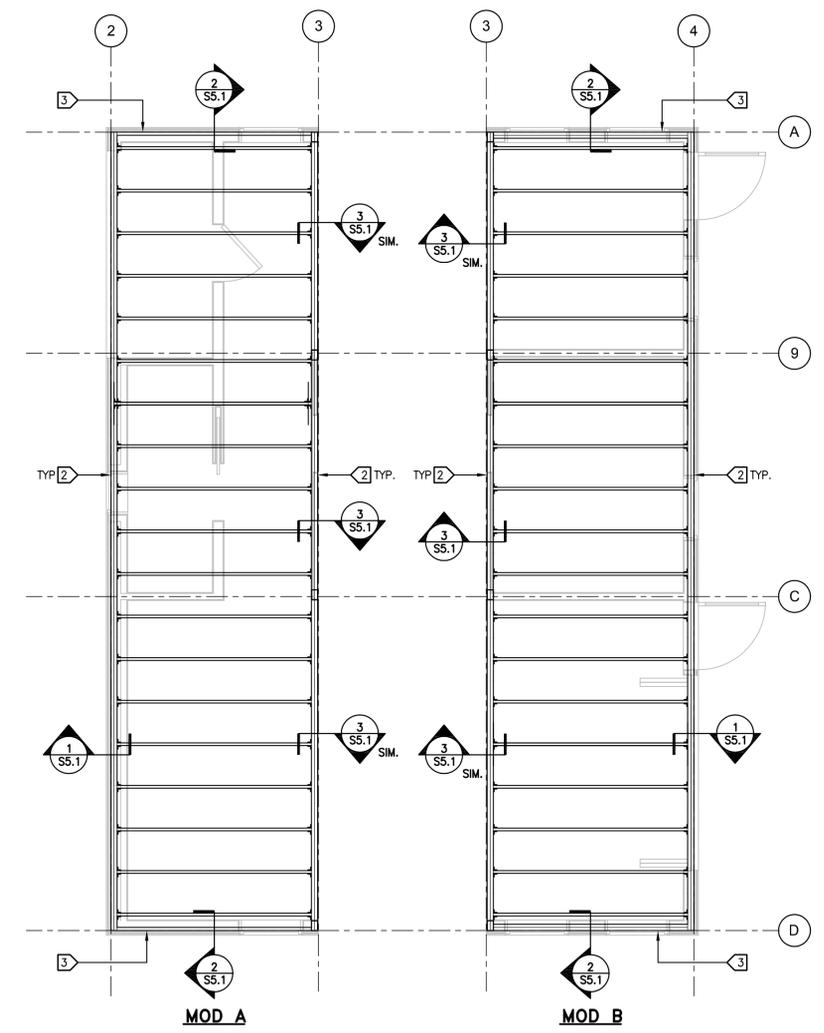
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1 MOD FLOOR FRAMING PLANS
S5.0 1/4"=1'-0"



2 MOD WALL FRAMING PLANS
S5.0 1/4"=1'-0"

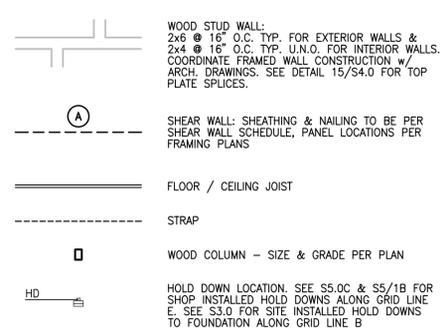


3 MOD CEILING FRAMING PLANS
S5.0 1/4"=1'-0"

MOD FRAMING NOTES

- A. VERIFY ALL MOD ROUGH FRAMING DIMENSIONS & WALL TYPES w/ ARCHITECT PRIOR TO MOD FABRICATION.
- B. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS FOR FIREBLOCKING, FIRESTOPS & RATED ASSEMBLIES.
- C. MOD FLOOR JOISTS TO BE 2x10 DF#2 @ 16" O.C., TYPICAL UNLESS NOTED OTHERWISE.
- D. MOD CEILING JOISTS TO BE 2x8 DF#2 @ 24" O.C., TYPICAL UNLESS NOTED OTHERWISE.
- E. MOD FLOOR SHEATHING IS TO BE 23/32" T&G PLYWOOD w/ 0.131"x3" RINGSHANK NAILS @ 6" O.C. EDGES, 12" O.C. FIELD. SIMILAR THICKNESS OF OSB MAY BE USED AT CONTRACTOR'S CHOICE ON FLOORS.
- F. MOD EXTERIOR WALL SHEATHING IS TO BE 1/2" 'ZIP SYSTEM' PANELS BY HUBER ENGINEERED WOODS
- F. MOD ROOF SHEATHING IS TO BE 7/16" (MIN.) 'ZIP SYSTEM' PANELS BY HUBER ENGINEERED WOODS.
- G. FRAME ALL DOORS & WINDOWS PER DETAIL 13/S4.0.
- H. 4x10 DF #2 HEADERS, TYPICAL U.N.O. FOR SPANS UP TO 4'-0". LONGER SPANS TO BE PER HEADER SCHEDULE EXCEPT AS NOTED ON PLANS. NOT ALL HEADERS MAY BE NOTED ON PLANS
- I. SOLID BLOCK FLOOR & CEILING SPACES UNDER ALL WOOD COLUMNS. BLOCKING IS TO BE THE SAME CROSS-SECTIONAL AREA AS COLUMNS.
- J. LOCATE COLUMNS IN WALL AS REQUIRED TO MINIMIZE FURRING.
- K. SITE-CONSTRUCTED DECKS NOT ILLUSTRATED. SEE ASSEMBLY PLANS FOR ADDITIONAL INFORMATION.

MOD FRAMING PLAN LEGEND



MOD FRAMING KEYNOTES

- 1. (2) 1 3/4 x 9 1/4 1.9E LVL STRUCTURAL RIM
- 2. (2) 1 3/4 x 7 1/4 1.9E LVL STRUCTURAL RIM
- 3. (1) 1 3/4 x 7 1/4 1.9E LVL STRUCTURAL RIM
- 4. 4x6 DF#2 POST
- 5. FULL-HEIGHT SOLID BLOCKING, CENTERED UNDER FRAMED WALL
- 6. OMIT FLOOR SHEATHING AT CLOSURE STRIP LOCATION. SEE 1/S2.0

**YALE UNIVERSITY
SOLAR DECATHALON**

**MODULE
FRAMING PLANS**

ISSUE: 08/07/15
PROCESS SET

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DATE: 08/07/15
SHEET SIZE: 24x36
DRAWN BY: WEM, RPH
CHK'D BY: RPH

SHEET
S5.0

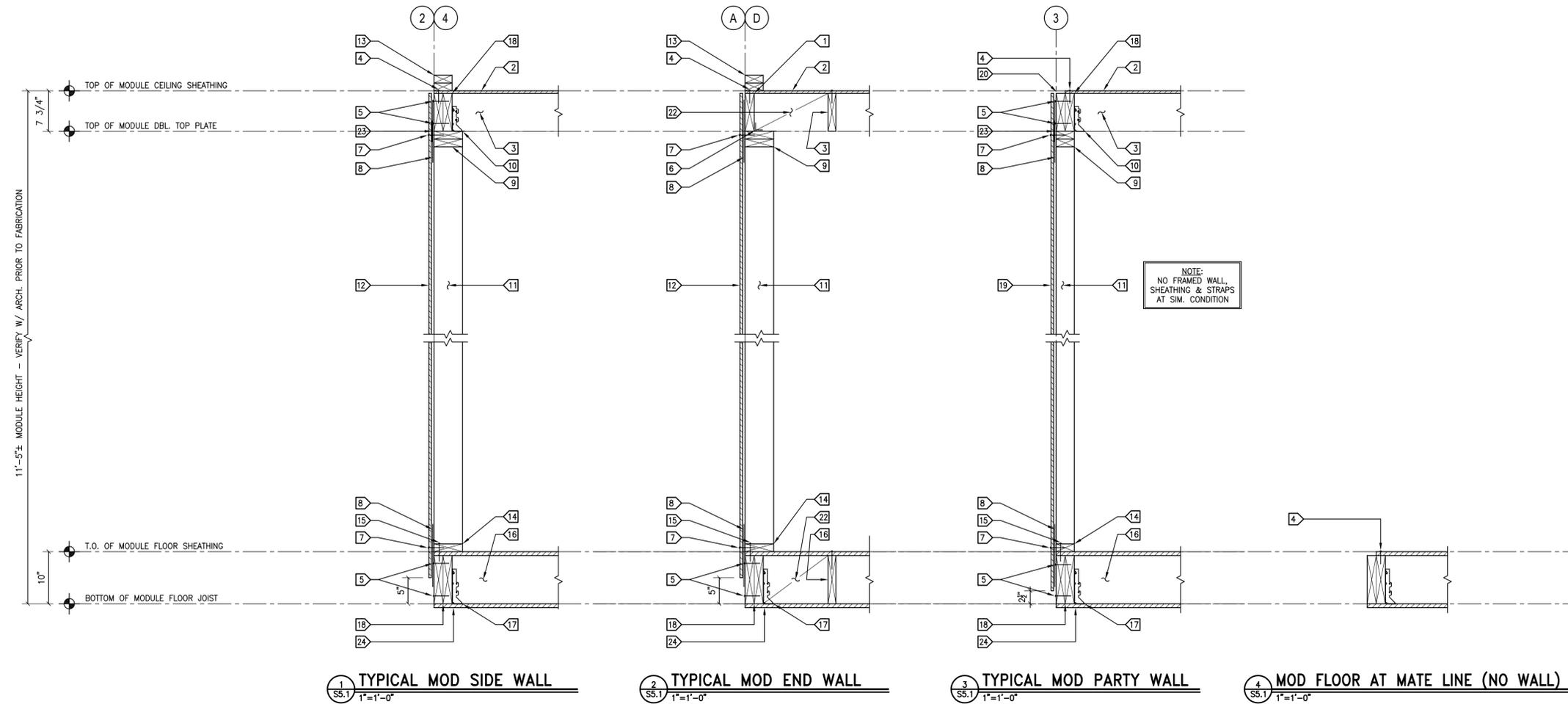
PROJECT No.:
15226.00

MOD FRAMING NOTES

- A. SEE SHEET S5.0 FOR MOD FLOOR, WALL & CEILING FRAMING PLANS.
- B. VERIFY ALL MOD ROUGH FRAMING DIMENSIONS & WALL TYPES w/ ARCHITECT PRIOR TO MOD FABRICATION.
- C. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS FOR FIREBLOCKING, FIRESTOPS & RATED ASSEMBLIES.
- D. FRAME ALL DOORS & WINDOWS PER DETAIL 13/S4.0.
- E. 4x10 DF #2 HEADERS, TYPICAL U.N.O. FOR SPANS UP TO 4'-0". LONGER SPANS TO BE PER HEADER SCHEDULE
- F. SOLID BLOCK FLOOR & CEILING SPACES UNDER ALL WOOD COLUMNS. BLOCKING IS TO BE THE SAME CROSS-SECTIONAL AREA AS COLUMNS.
- G. LOCATE COLUMNS IN WALL AS REQUIRED TO MINIMIZE FURRING.

MOD WALL FRAMING KEYNOTES

- 1. SINGLE LVL RIM JOIST PER FRAMING PLANS
- 2. 'ZIP SYSTEM' ROOF SHEATHING PER FRAMING PLANS
- 3. CEILING JOISTS, TYP. SIZE, SPACING & ORIENTATION PER FRAMING PLANS
- 4. 0.131"x3" NAILS @ 8" O.C. EDGES, 12" O.C. FIELD, TYPICAL ROOF SHG. NAILING
- 5. (2) ROWS 0.131"x3" NAILS @ 16" O.C. STAGGERED, TYP. NAILING FOR DBL. RIM JOISTS
- 6. SIMPSON A35 CLIP @ 16" O.C.
- 7. EDGE NAILING PER PRESCRIPTIVE SCHEDULE. SEE SHEAR WALL SCHEDULE FOR NAILING REQUIREMENTS AT SHEAR PANELS
- 8. SIMPSON LSTA12 STRAP @ 48" O.C. INSTALLED UNDER SHEATHING. CENTER STRAP AT B.O. CEILING JOIST / T.O. FLOOR JOIST AS SHOWN
- 9. DOUBLE 2x TOP PLATE. SEE 15/S4.0 FOR SPLICES
- 10. SIMPSON LUS26 FACE-MOUNT HANGER, TYP.
- 11. WALL STUD PER FRAMING PLAN
- 12. 'ZIP SYSTEM' WALL SHEATHING, FASTENED TO EXTERIOR FACE OF STUDS. SEE FRAMING PLANS FOR SHEAR WALL REQUIREMENTS
- 13. DBL. 2x4 GRAVEL STOP, TYP. ALONG MOD EXTERIOR WALLS
- 14. SINGLE 2x BOTTOM PLATE
- 15. 16d @ 8" O.C., PLATE TO RIM JOIST
- 16. FLOOR JOISTS, TYP. SIZE, SPACING & ORIENTATION PER FRAMING PLANS
- 17. SIMPSON LUS28 FACE-MOUNT HANGER, TYP.
- 18. DOUBLE LVL STRUCTURAL RIM PER FRAMING PLANS
- 19. 1/2" NOMINAL SHEATHING, TYP. AT MATE LINE SIDE OF FRAMED PARTY WALL.
- 20. HOLD BACK CEILING SHEATHING 1 3/4" BACK FROM F.O. OUTER RIM JOIST, TYP.
- 21. (3) 16d NAILS, RIM TO EACH CEILING JOIST
- 22. 2x SOLID BLOCKING @ 24" O.C. TYP.
- 23. SIMPSON LTP4 CLIP @ 24" O.C.
- 24. NON-STRUCTURAL OSB SHEATHING, COORDINATE w/ ARCH.



NOTE:
NO FRAMED WALL,
SHEATHING & STRAPS
AT SIM. CONDITION

NOTE:
FIRESTOPS, SOUNDPROOFING & INSULATION NOT
SHOWN. SEE ARCHITECTURAL DRAWINGS FOR
ADDITIONAL WALL REQUIREMENTS



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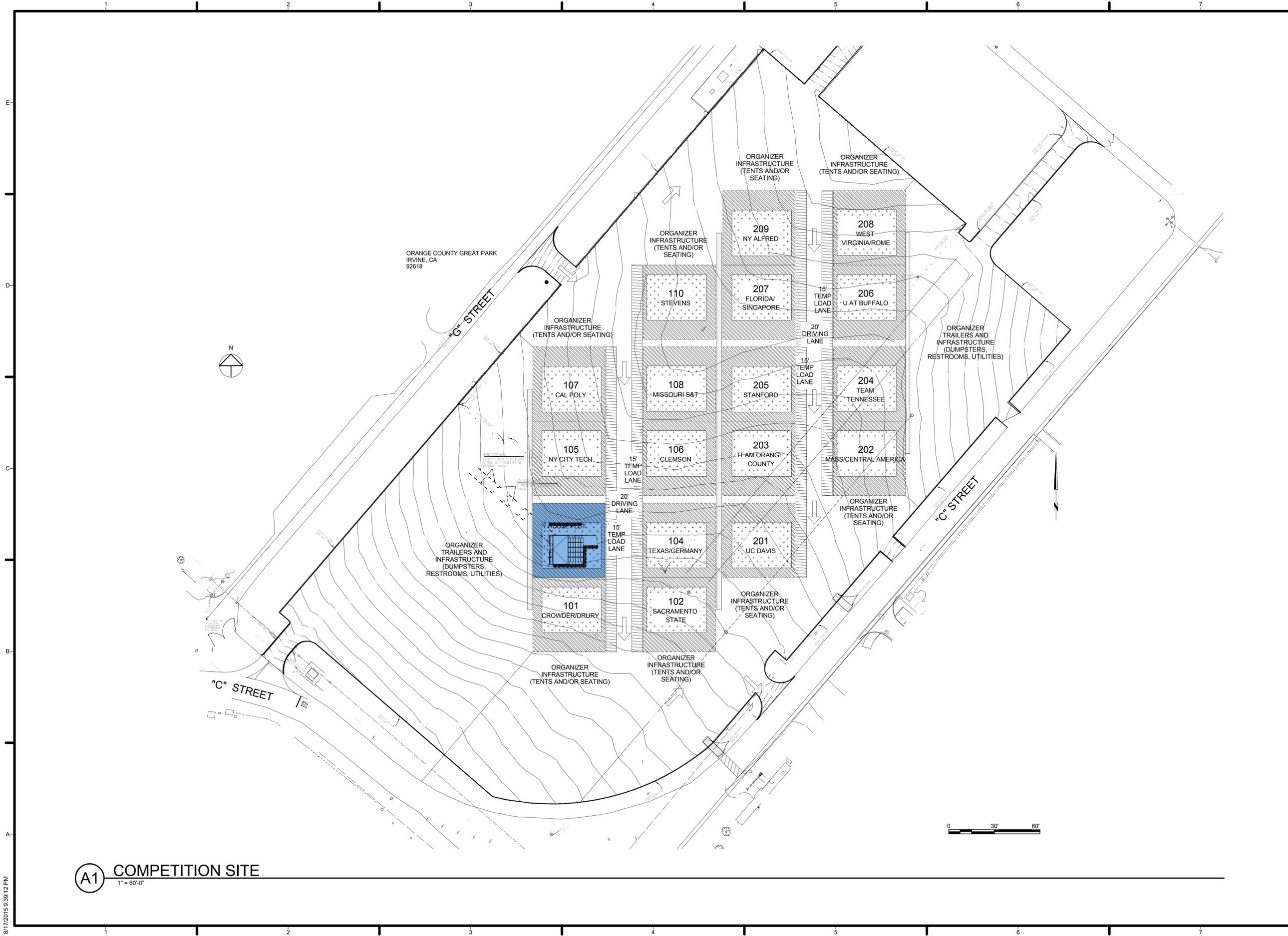
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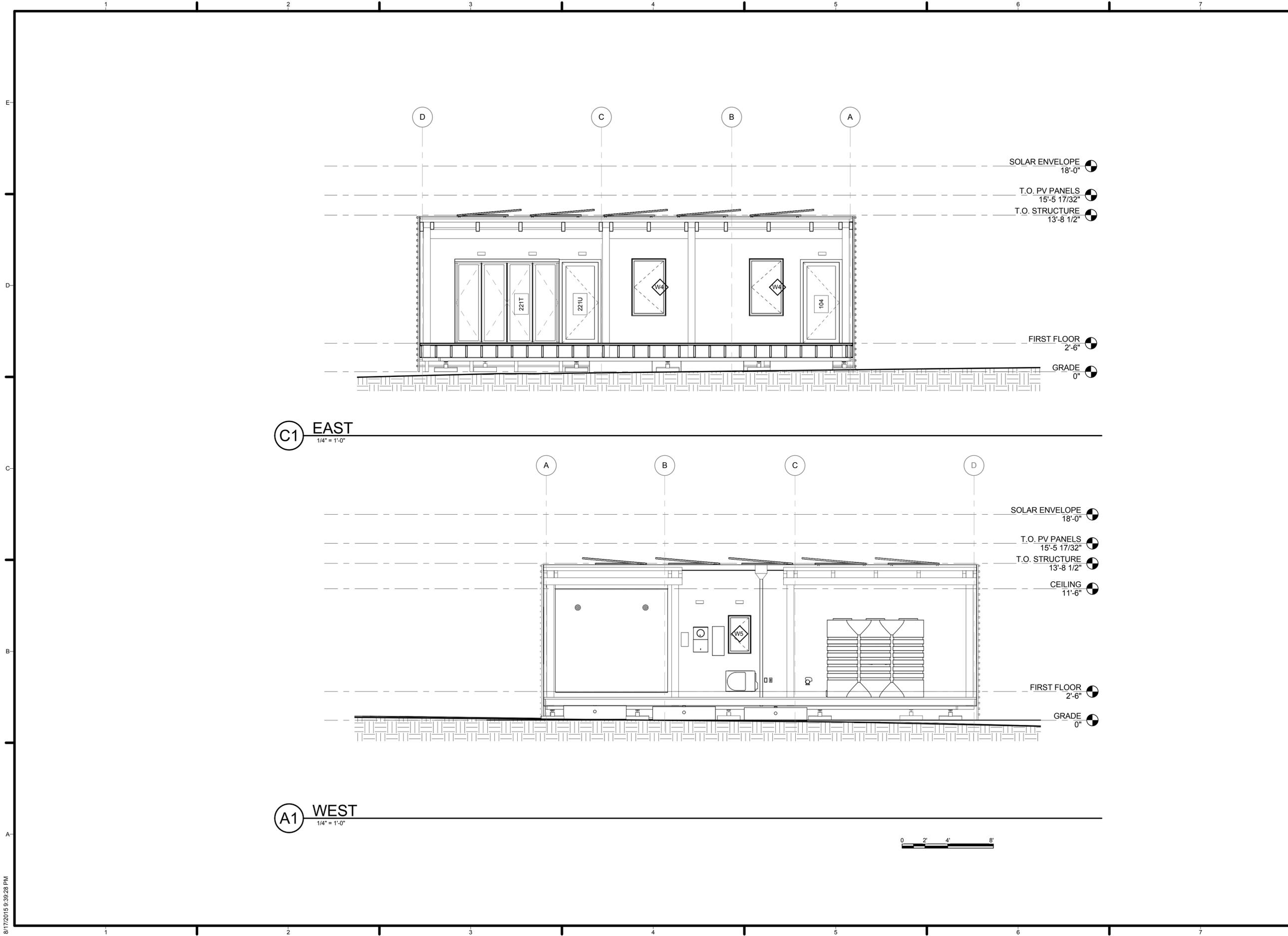
SHEET TITLE
 COMPETITION SITE PLAN

A-001



A1 COMPETITION SITE
 1" = 60'-0"

8/17/2015 9:39:12 PM



(C1) EAST
1/4" = 1'-0"

(A1) WEST
1/4" = 1'-0"



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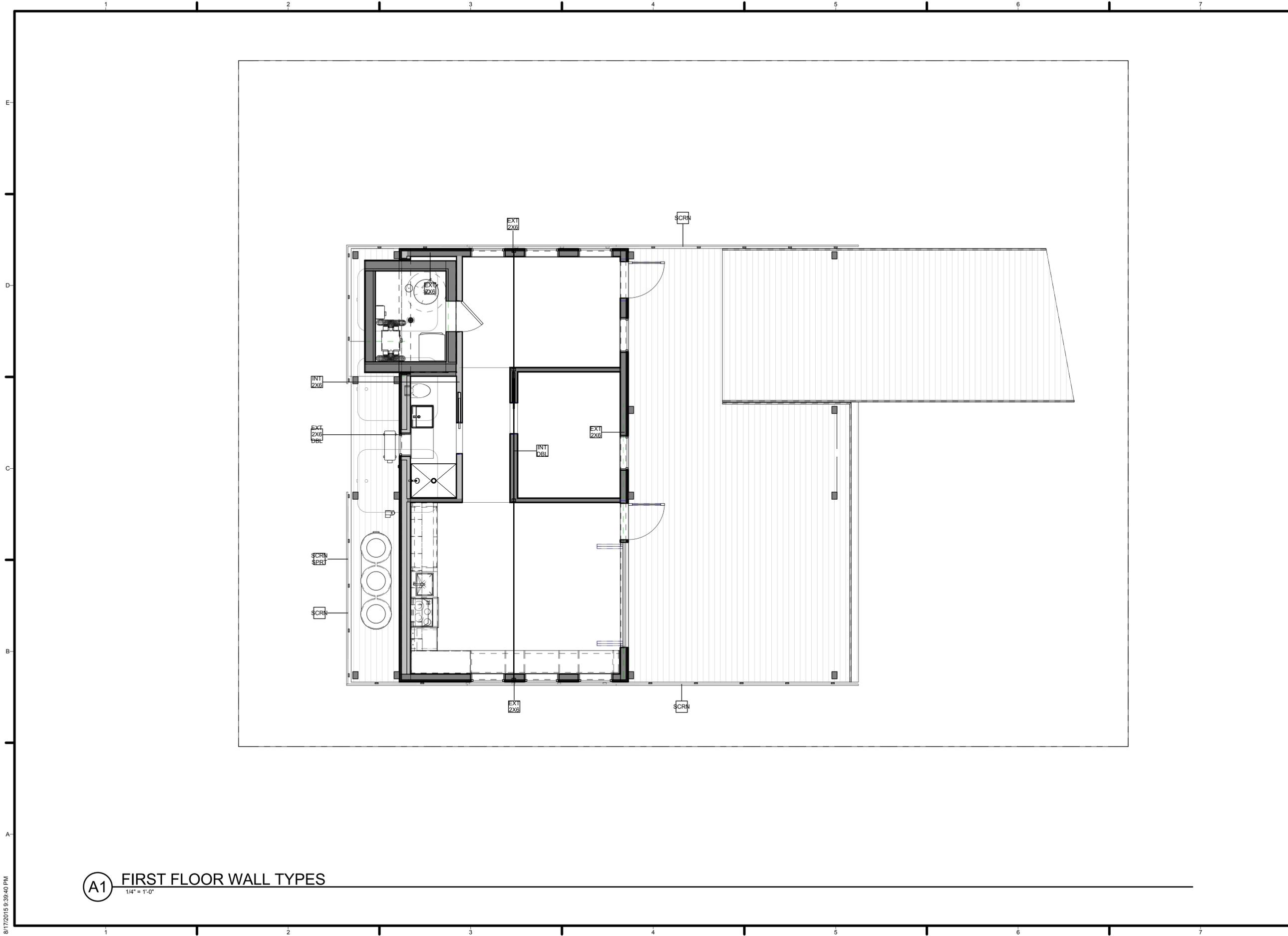


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SHEET TITLE
BUILDING ELEVATIONS

A-204



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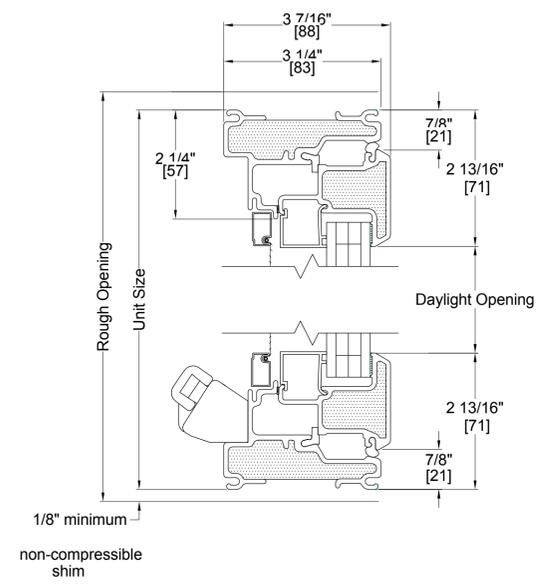
SHEET TITLE
 WALL TYPES

A-311

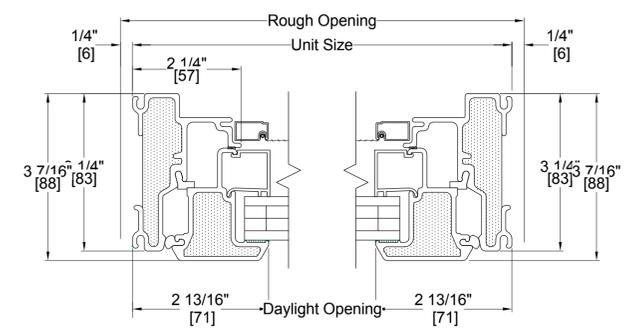
A1 FIRST FLOOR WALL TYPES
 1/4" = 1'-0"

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STANDARD FRAME



VERTICAL



HORIZONTAL

WINDOW DETAILS - ALPEN X25 CASEMENT
ARCHITECTURAL DETAIL

A1
1/4" = 1'-0"



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SHEET TITLE
WINDOW DETAILS

A-531

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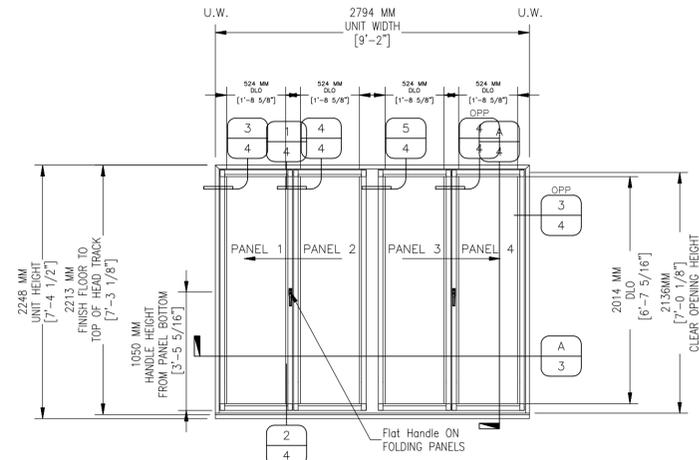
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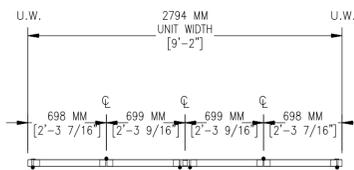
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SHEET TITLE
 DOOR DETAILS - NANAWALL SL60 2L2R (2)

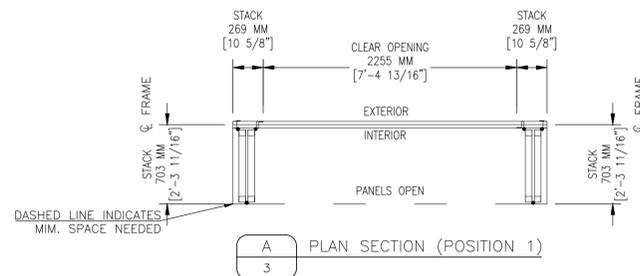
A-542



POSITION 1
 [1] REQ'D THUS, [1] TOTAL
 *FIRST PANEL OPEN
 NANA WALL SL60 FOLDING SYSTEMS (ALU)
 CONFIGURATION: INWARD 2 LEFT - INWARD 2 RIGHT
 SILL TYPE: Thermally Broken Low Profile Saddle
 MOUNT OPTION: FLOOR
 (TYPICAL: ELEVATIONS SHOWN FROM INTERIOR)



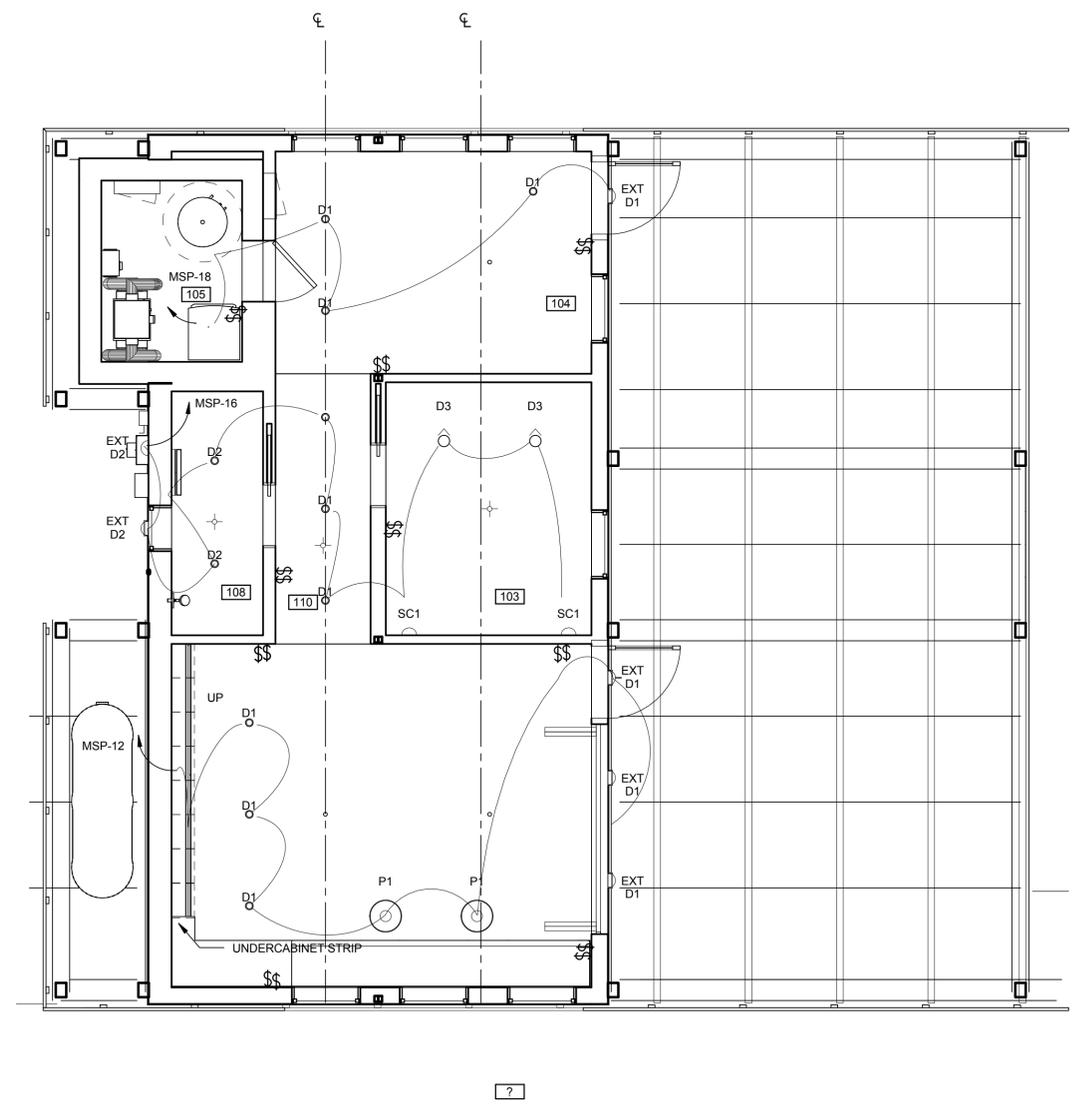
PANELS CLOSED



A PLAN SECTION (POSITION 1)

A3 DOOR DETAILS - NANAWALL SL60 2L2R (2)
 1/8" = 1'-0"

LIGHTING FIXTURE SCHEDULE								
Description	Type Mark	Count	MODEL	FAMILY AND TYPE	MANUFACTURER	LAMP	Wattage	COMMENTS
PENDENT	P1	2		265000_Lighting_Pendant: 265000_Lighting_Pendant			16 W	AS SPECIFIED BY ARCHITECT
BATH MIRROR SCONCE	W1	1		265000_Lighting_Wall Sconce Mirror: 265000_Lighting_Wall Sconce Mirror			12 W	AS SPECIFIED BY ARCHITECT
PROJECTOR	PRJ	1		Ceiling_based_projector_4126: Ceiling_based_projector_4126			12 W	AS SPECIFIED BY ARCHITECT
RECESSED DOWNLIGHT	D1	9		Downlight - Recessed Can: D1 - Fluorescent - 120V			18 W	AS SPECIFIED BY ARCHITECT
WET LOCATION RECESSED CAN	D2	4		Downlight - Recessed Can: D2 - Fluorescent - 120V Waterproof			18 W	AS SPECIFIED BY ARCHITECT
UNDER CABINET STRIP		1		Downlight - Under Cabinet: 120V			8 W	AS SPECIFIED BY ARCHITECT
RECESSED WALL WASH	D3	2		Downlight - Wall Washer: 6" Incandescent - 120V			60 W	AS SPECIFIED BY ARCHITECT
EXTERIOR WALL LIGHT	EXT D2	2	UGI-31591-W27 1 LED 107 lm 2700K 4 2.2 lb	Exterior Downlight 2: 40 watt Halogen			7 W	AS SPECIFIED BY ARCHITECT
EXTERIOR WALL LIGHT	EXT D1	4	UGI-31591-W27 1 LED 107 lm 2700K 4 2.2 lb	Exterior Downlight 6: 40 watt Halogen			7 W	AS SPECIFIED BY ARCHITECT
BEDROOM SCONCE	SC1	2	UGI-31591-W27 1 LED 107 lm 2700K 4 2.2 lb	Scnce 3: 40 watt Halogen			7 W	AS SPECIFIED BY ARCHITECT
UPLIGHT STRIP	UP	1		Uplight - Strip: 48" - 120V			40 W	AS SPECIFIED BY ARCHITECT
UNDER CABINET STRIP		1	LMSTRP25	wall_light_9510: wall_light_9510			12 W	AS SPECIFIED BY ARCHITECT

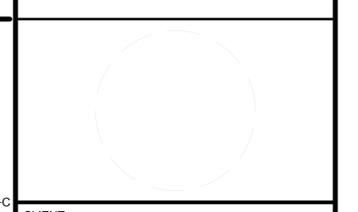


A2 E-102 ELECTRICAL PLAN
1/4" = 1'-0"



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SHEET TITLE
 LIGHTING PLAN

E-102

