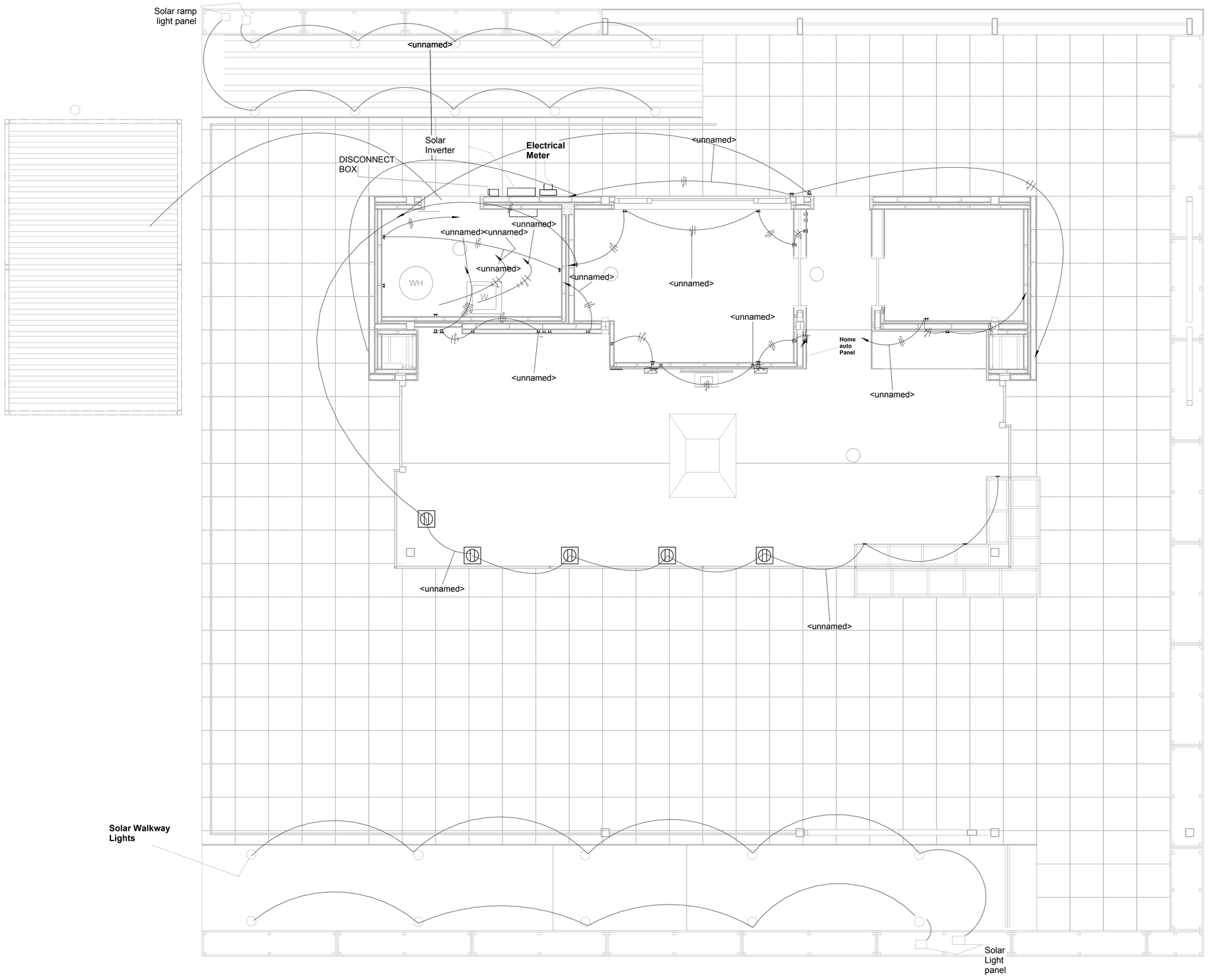
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Solar
Inverter
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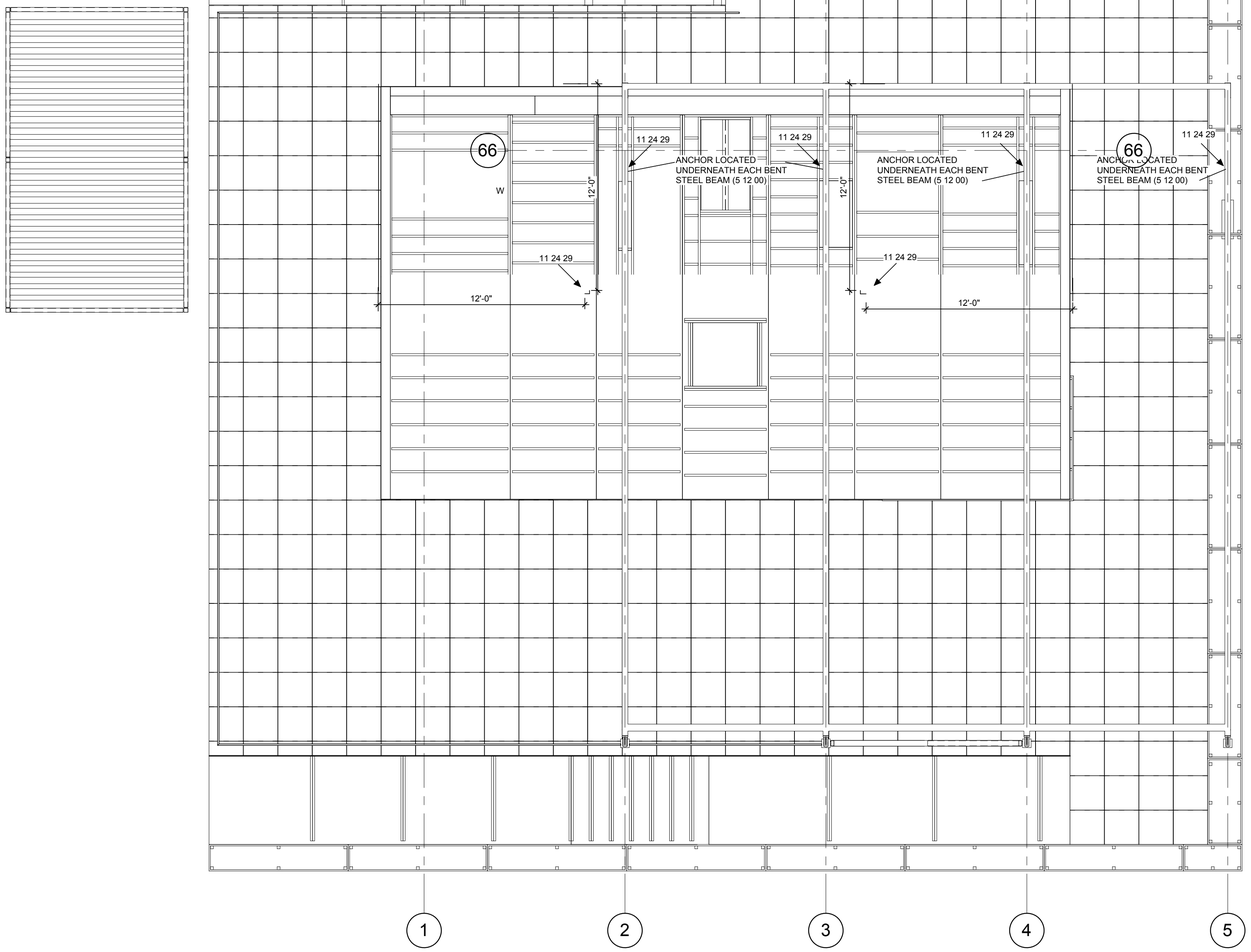
Solar Walkway
Lights
Solar
Light
panel



General Notes

1. 11 24 29 REPRESENTS A D RING ANCHOR DBI/SALA
2. D RINGS WILL HAVE 20 FT GUARDIAN 10909 RETRACTABLE LIFELINE ATTACHED
3. RETRACATBLE LIFELINE WILL BE ATTACHED TO 3M CLASS A SAFELIGHT FALL PROTECTION HARNESS
4. RETRACTABLE LIFELINE WILL ONLY ALLOW MAXIMUM FALL OF 24" BEYOND CURRENT EXTENDED LENGTH

11 24 29

1 HEALTH AND SAFETY ANCHORAGE
1/4" = 1'-0"

8/17/2015 6:42:54 PM

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HEALTH AND SAFETY

1

1. GENERAL SHEET NOTES
2. GENERAL SHEET NOTES 2
3. GENERAL SHEET NOTES 3
4. GENERAL SHEET NOTES 4
5. GENERAL SHEET NOTES 5FA FDAFDAFDASF D FDASDFSAFDASFDAS FA FAF
6. GENERAL SHEET NOTES 6
7. GENERAL SHEET NOTES 7
8. GENERAL SHEET NOTES 8

REFERENCE KEYNOTES

SHEET KEYNOTES

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ARCHITECTURAL SYMBOLS AND NOTES

A-001

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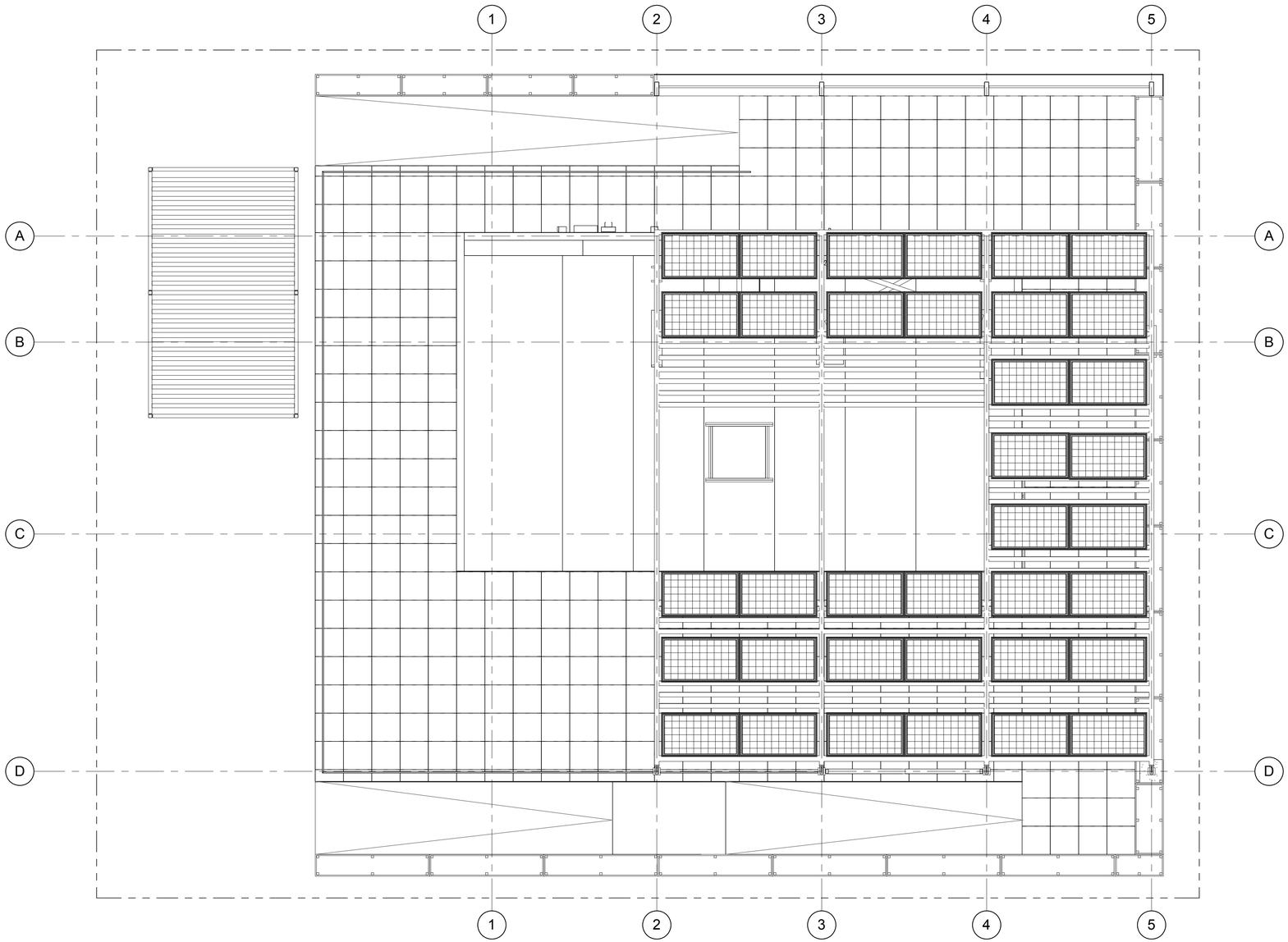

A1 SITE PLAN
1/4" = 1'-0"

0 2' 4' 8'

8/17/2015 6:42:57 PM

REFERENCE KEYNOTES

SHEET KEYNOTES

SITE BOUNDARY

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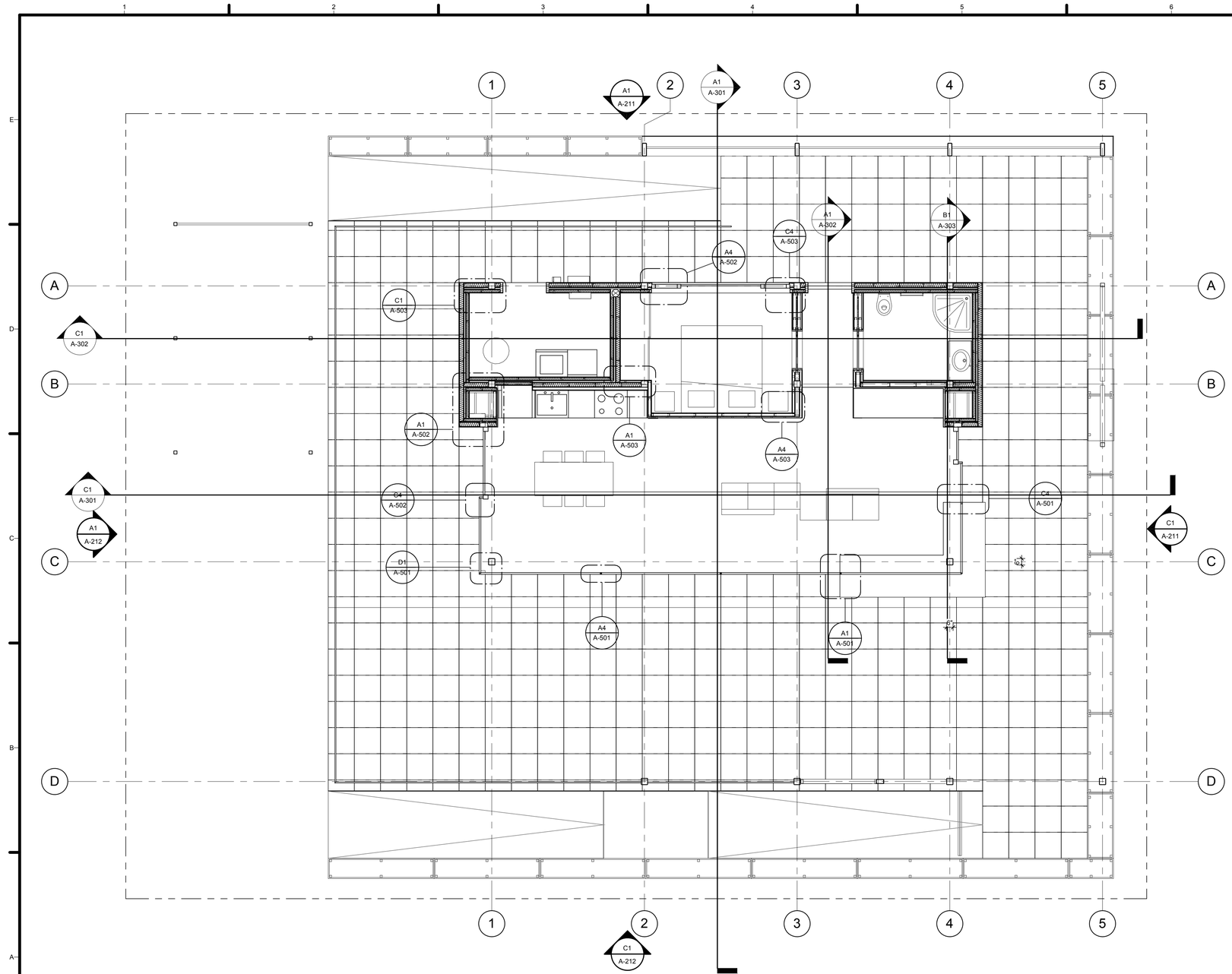
SITE PLAN

A-101



A1 FIRST FLOOR

1/4" = 1'-0"

0 2' 4' 8'

8/17/2015 6:43:00 PM

REFERENCE KEYNOTES

SHEET KEYNOTES

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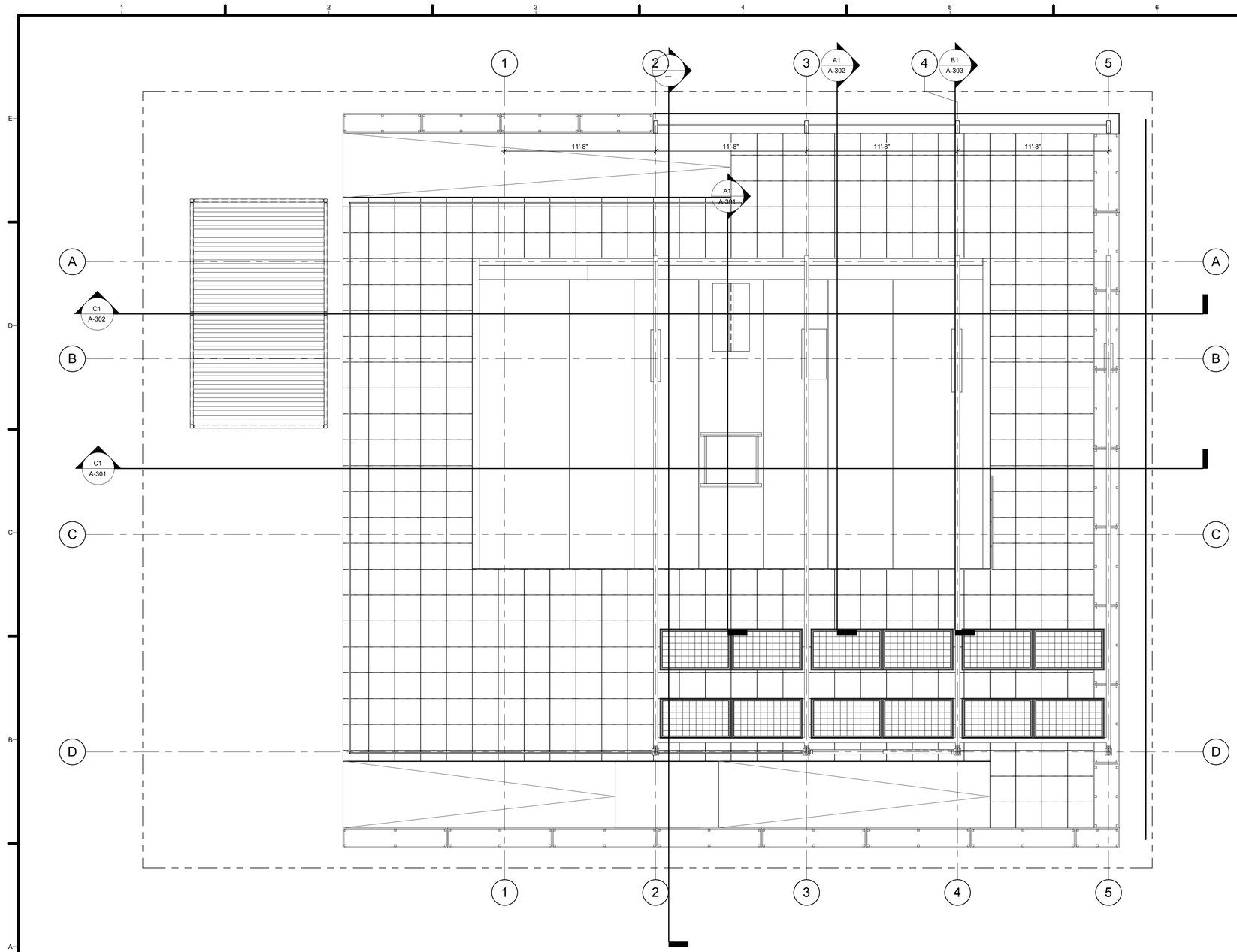
FIRST FLOOR PLAN

A-111



A1 ROOF PLAN
1/4" = 1'-0"

0 2' 4' 8'

8/17/2015 6:43:03 PM

REFERENCE KEYNOTES

SHEET KEYNOTES

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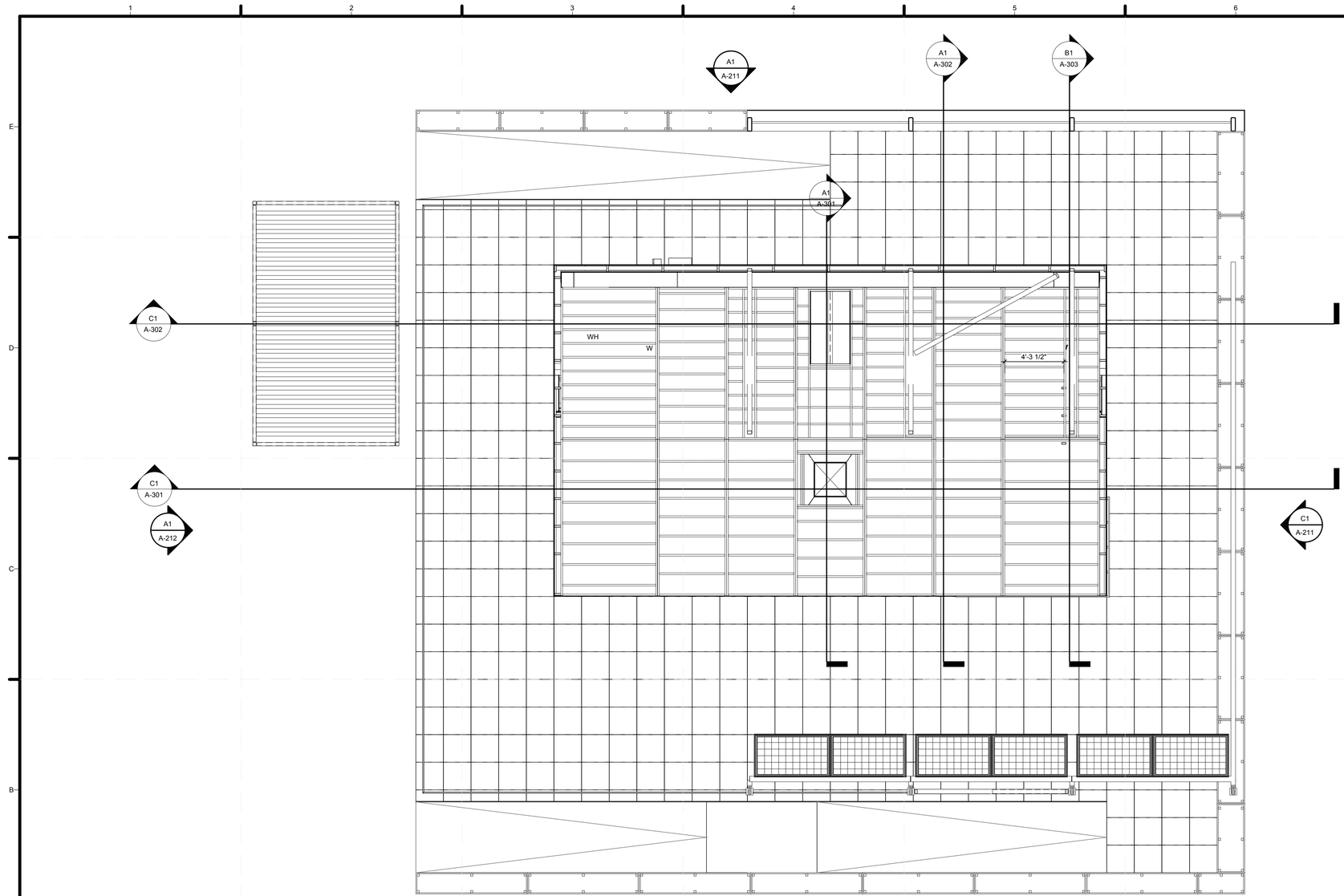
ROOF PLAN

A-112



A1 ROOF SECTION
1/4" = 1'-0"

8/17/2015 6:43:05 PM

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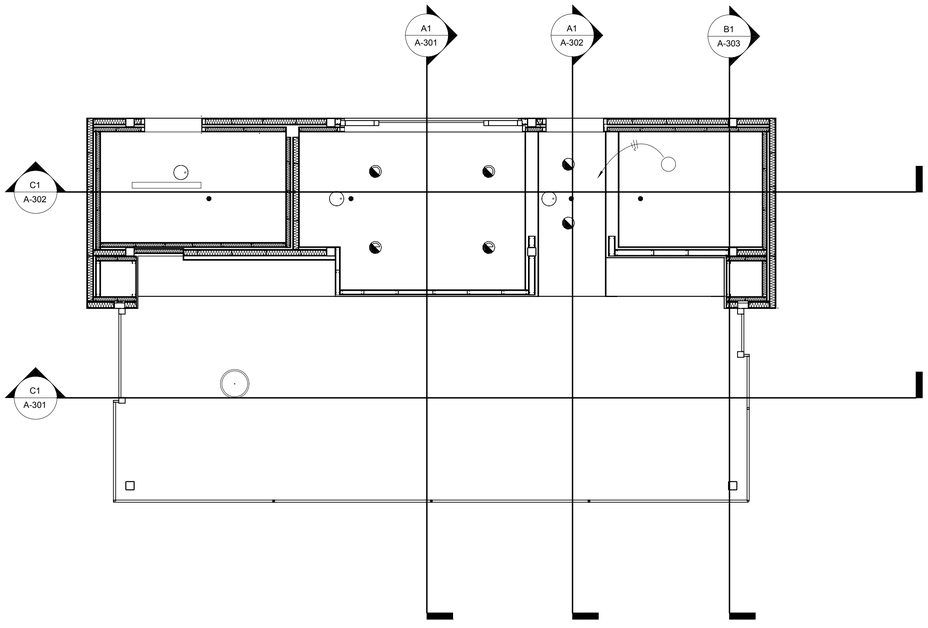
ROOF SECTION

A-113



B3 FIRST FLOOR REFLECTED CEILING PLAN

1/4" = 1'-0"

0 2' 4' 8'

8/17/2015 6:43:07 PM

stile

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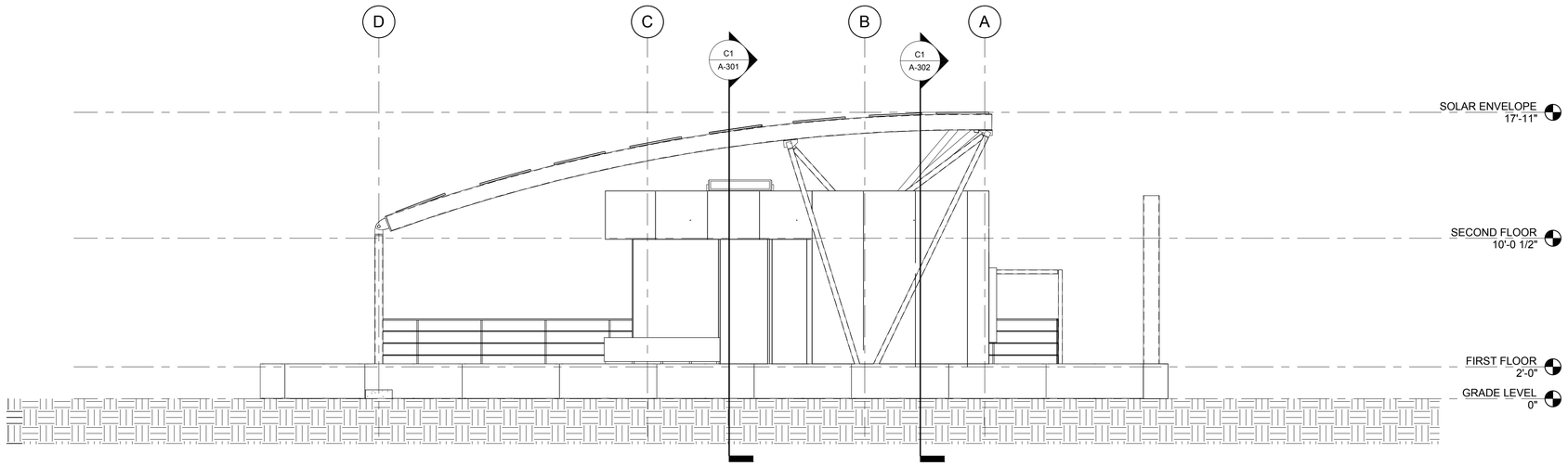
FIRST FLOOR REFLECTED CEILING PLAN

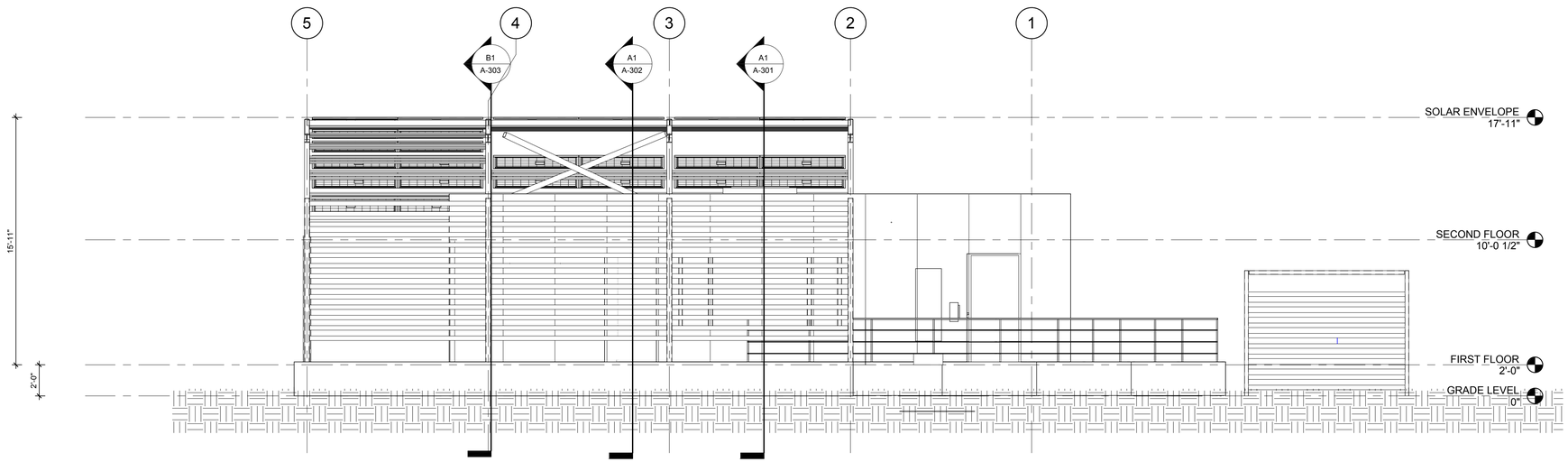
A-121



C1 EAST ELEVATION

1/4" = 1'-0"

0 2' 4' 8'



A1 NORTH ELEVATION

1/4" = 1'-0"

0 2' 4' 8'

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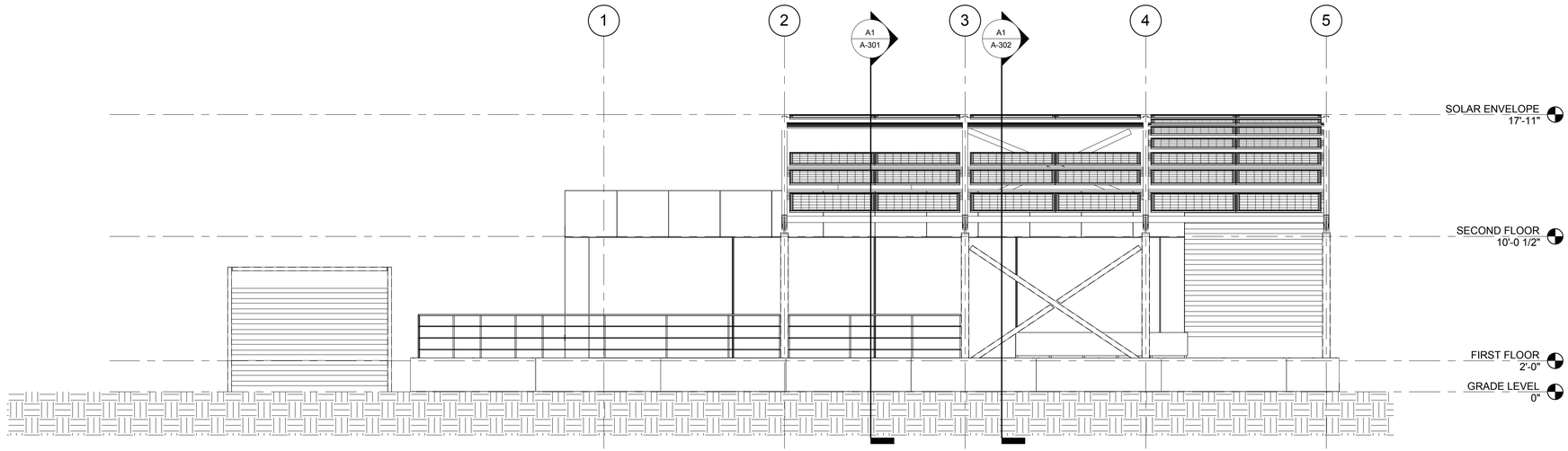
SHEET TITLE

ELEVATIONS

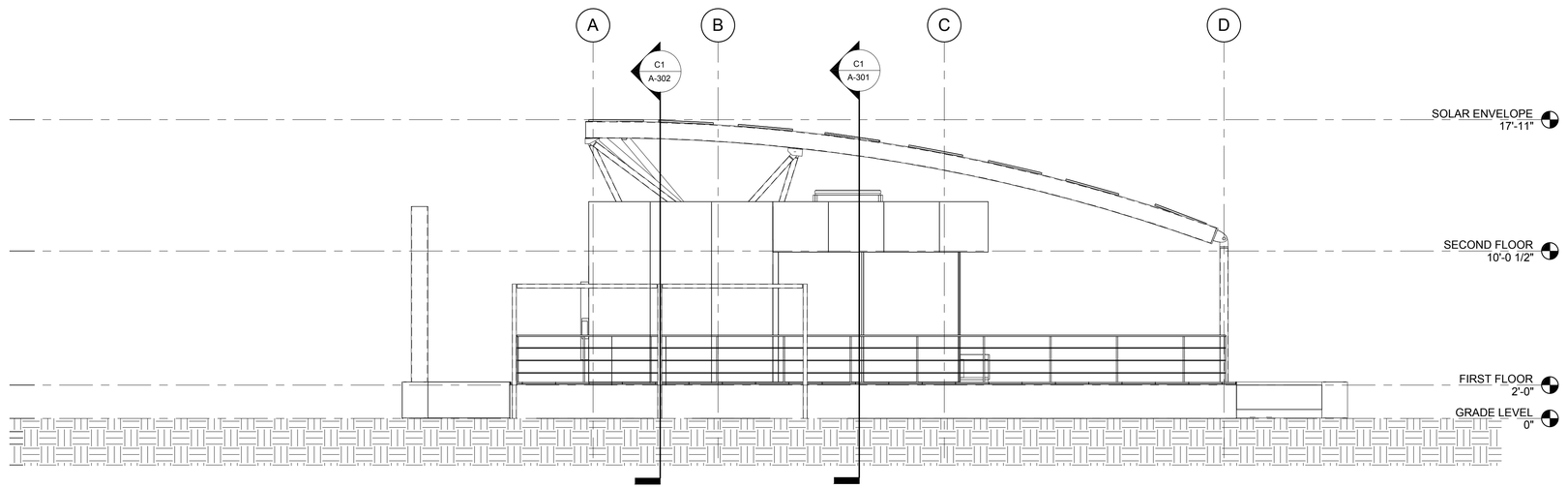
A-211



C1 SOUTH ELEVATION

1/4" = 1'-0"

0 2' 4' 8'



A1 WEST ELEVATION

1/4" = 1'-0"

0 2' 4' 8'

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stile

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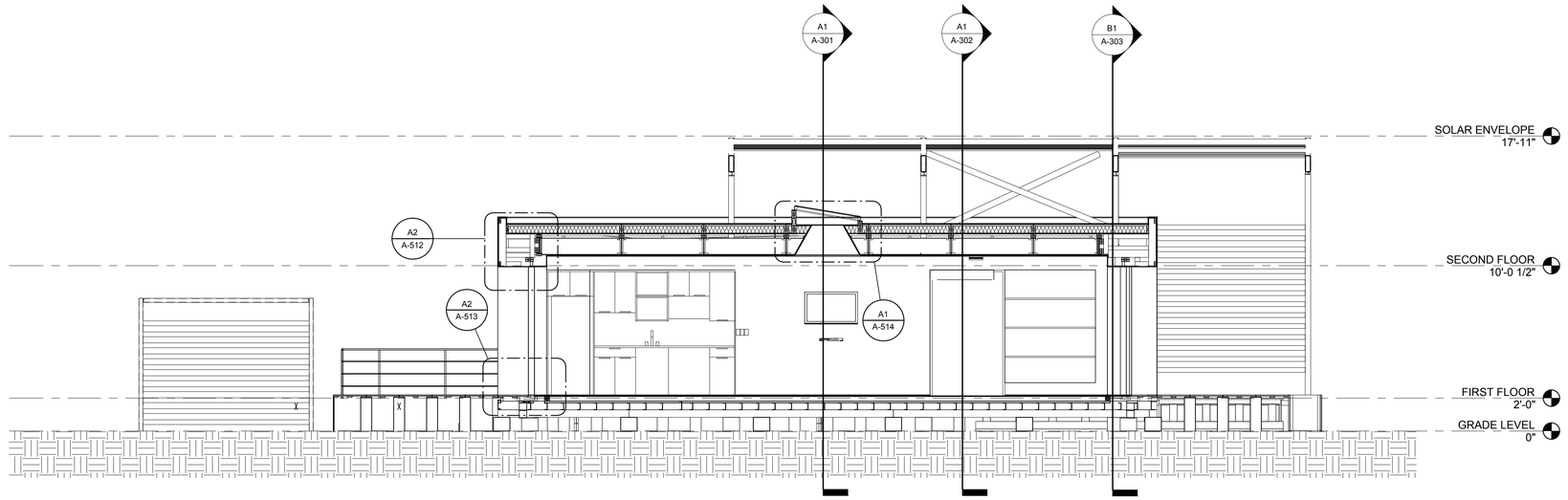
ELEVATIONS

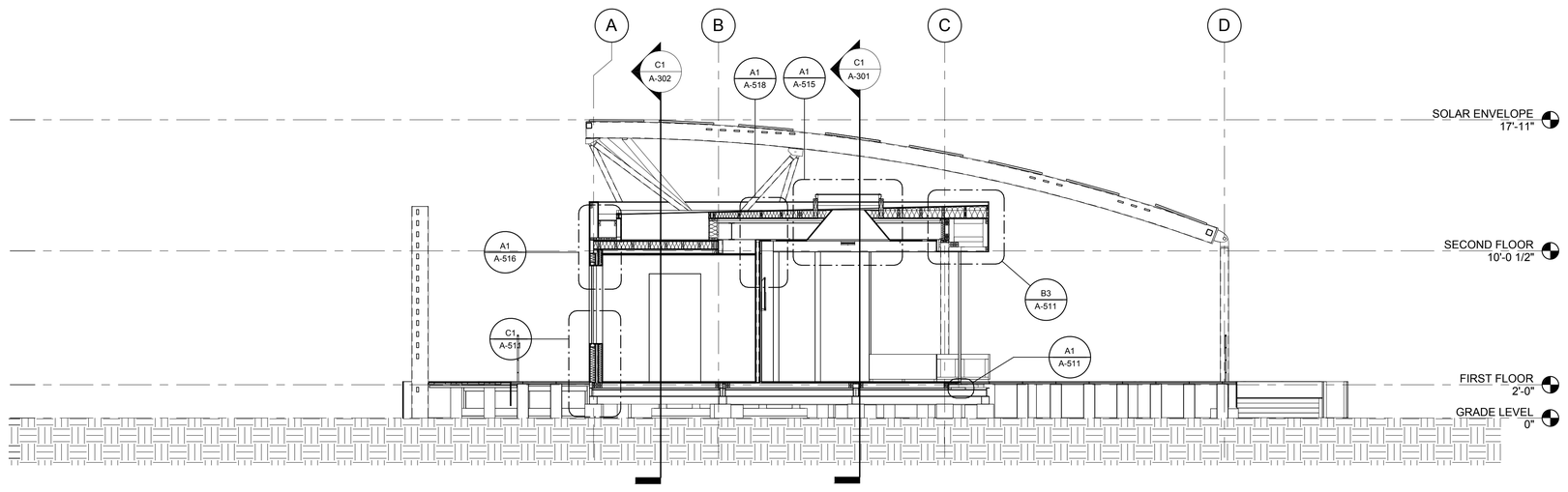
A-212



C1 SECTION 01

1/4" = 1'-0"

0 2' 4' 8'



A1 SECTION 02

1/4" = 1'-0"

0 2' 4' 8'

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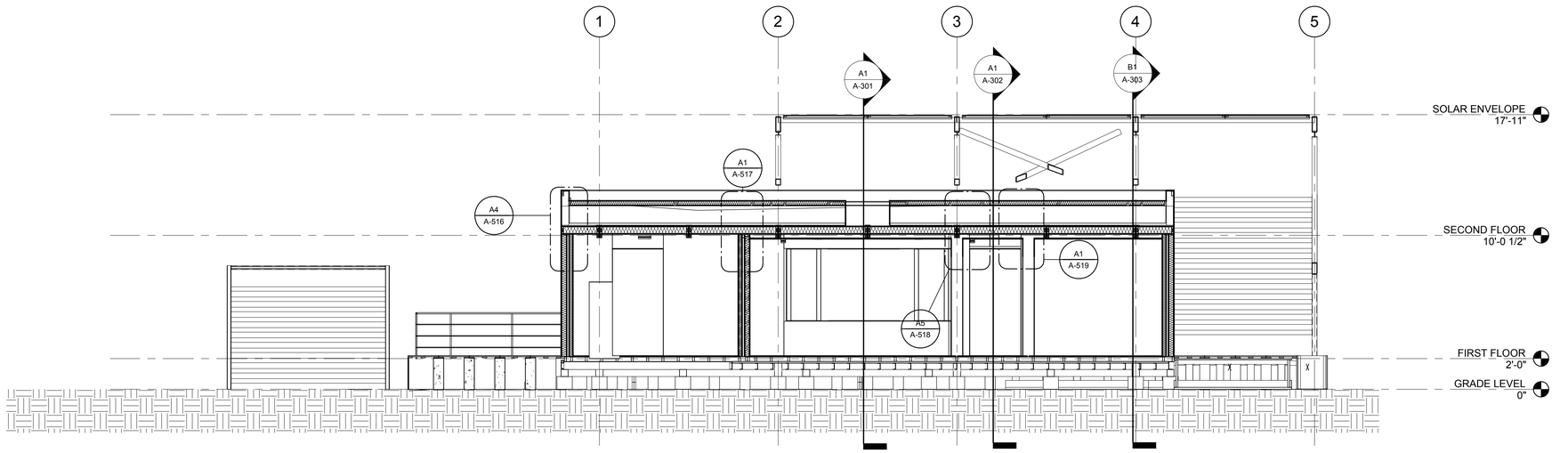
BUILDING SECTIONS

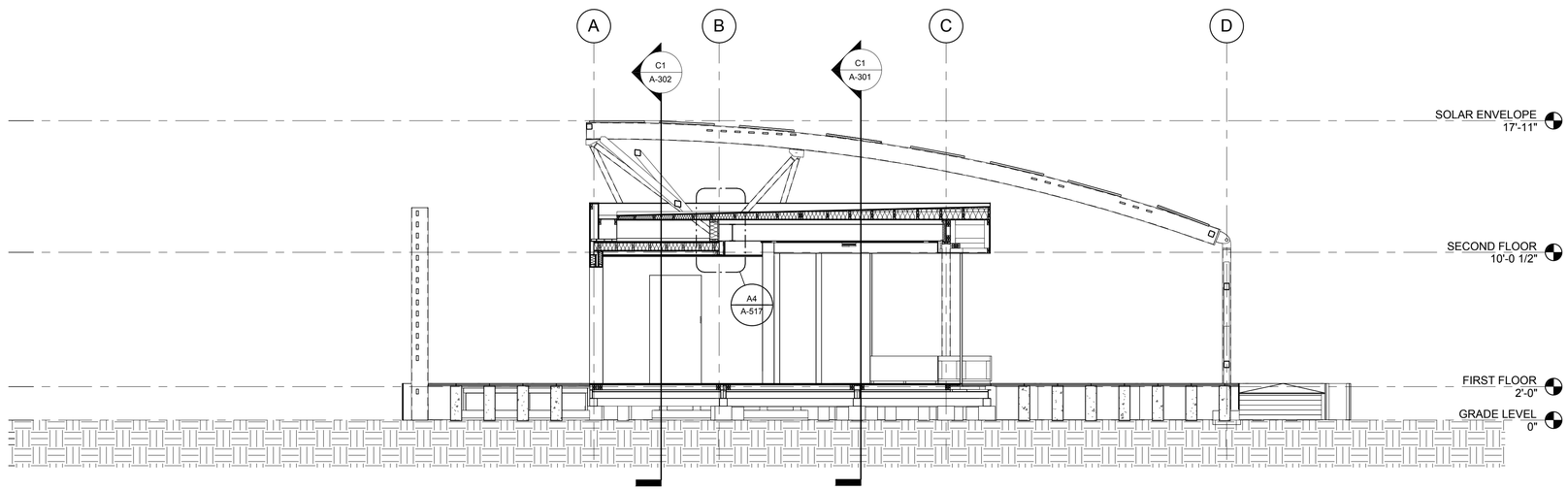
A-301



C1 SECTION 03

1/4" = 1'-0"

0 2' 4' 8'



A1 SECTION 04

1/4" = 1'-0"

0 2' 4' 8'

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stile

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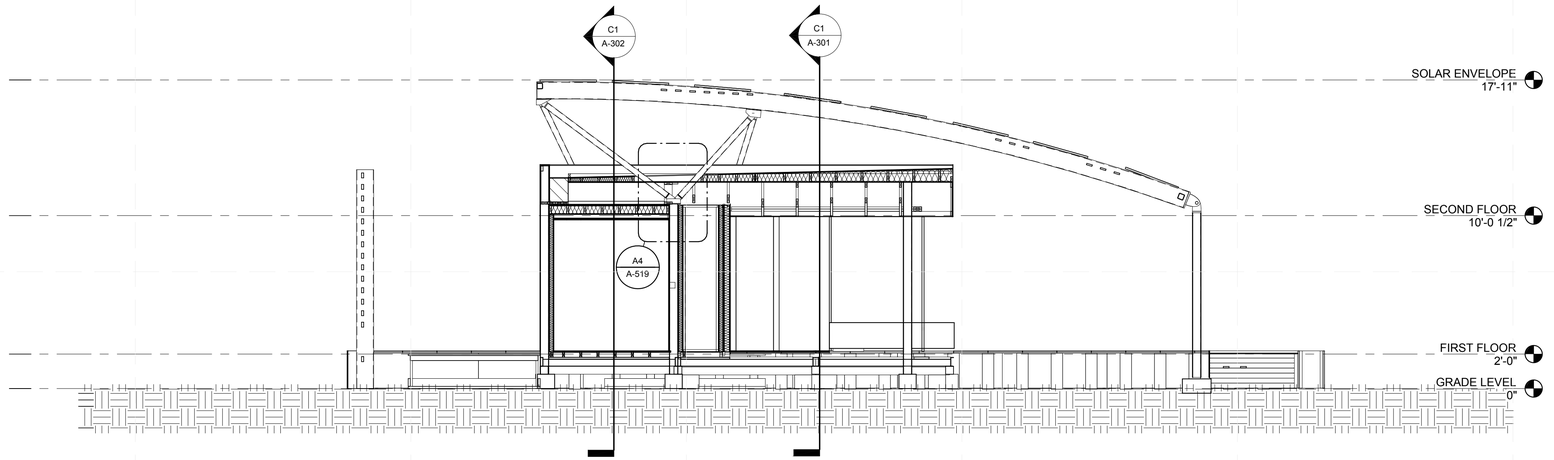
BUILDING SECTIONS

A-302



B1 SECTION 05
1/4" = 1'-0"

0 2' 4' 8'

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BUILDING SECTIONS

A-303

CASEWORK SCHEDULE							
MARK	COUNT	SIZE			FINSIH	MANUFACTURER	COMMENTS
		WIDTH	HEIGHT	DEPTH			

DOOR SCHEDULE													
MARK	DR TYPE	DR SIZE	MANUFACTURER	MODEL	FRAME TYPE	FIRE RATING	DETAILS			DESCRIPTION	FINISH		
							HEAD	JAMB	SILL		DOOR	FRAME	COMPONENTS

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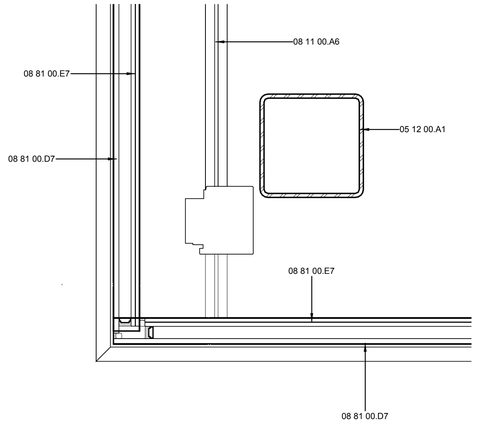
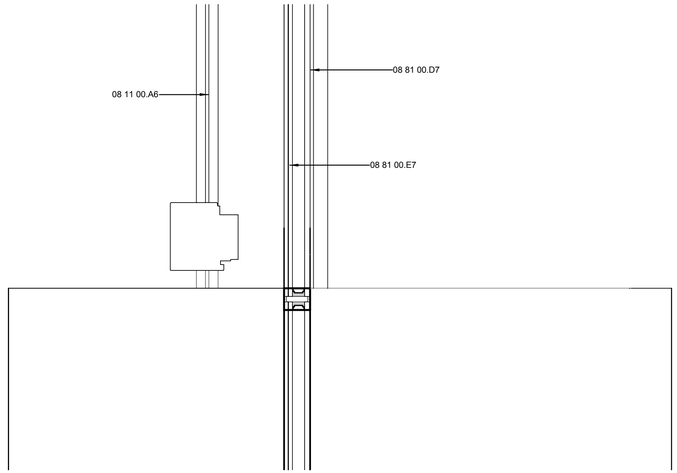
LARGE SCALE PLANS

A-401



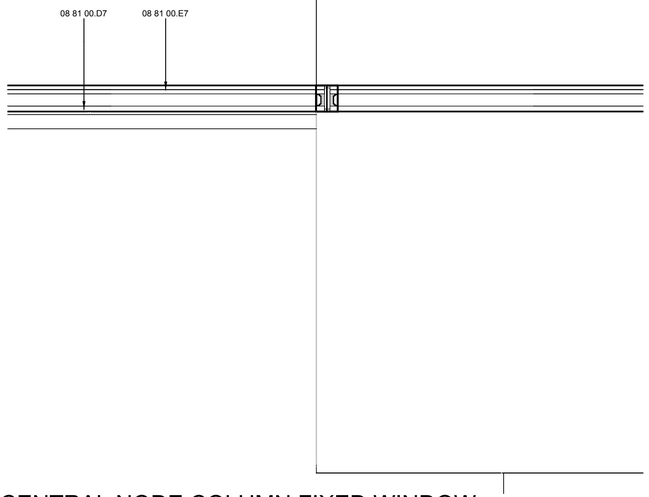
D1 CORNER NODE FIXED WINDOW
3" = 1'-0"

0 3" 6" 1'



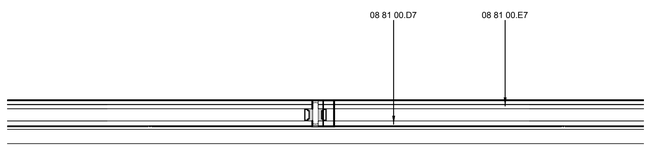
C4 COLUMN-FIXED WINDOW - SLIDING FRAME
3" = 1'-0"

0 3" 6" 1'



A1 CENTRAL NODE COLUMN FIXED WINDOW
3" = 1'-0"

0 3" 6" 1'



A4 CENTRAL NODE FIXED WINDOW
3" = 1'-0"

0 3" 6" 1'

REFERENCE KEYNOTES

05 12 00.A1
08 11 00.A6
08 81 00.D7
08 81 00.E7

SHEET KEYNOTES

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PLAN DETAILS

A-501

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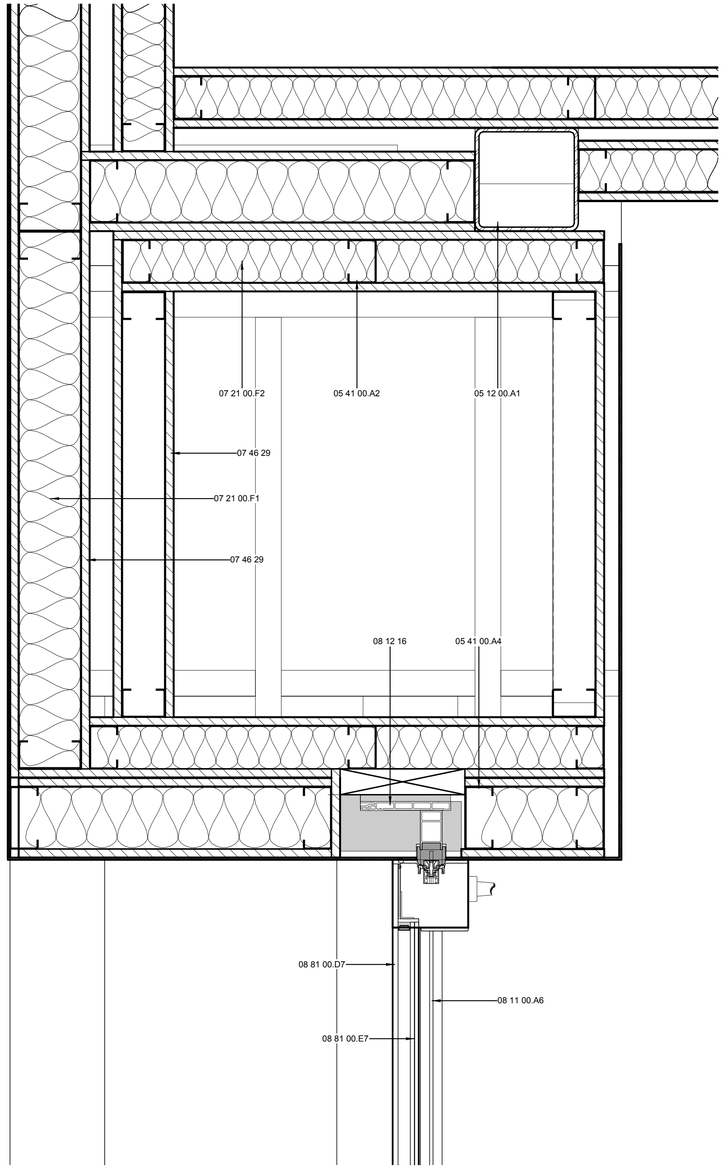
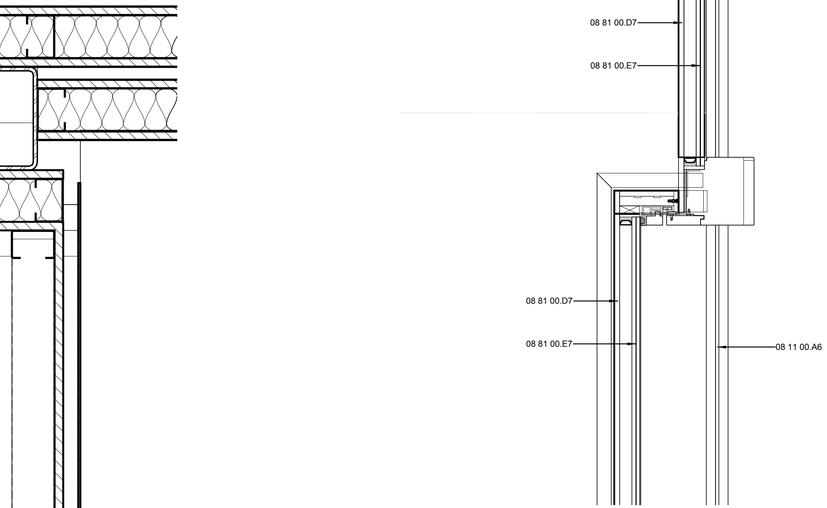


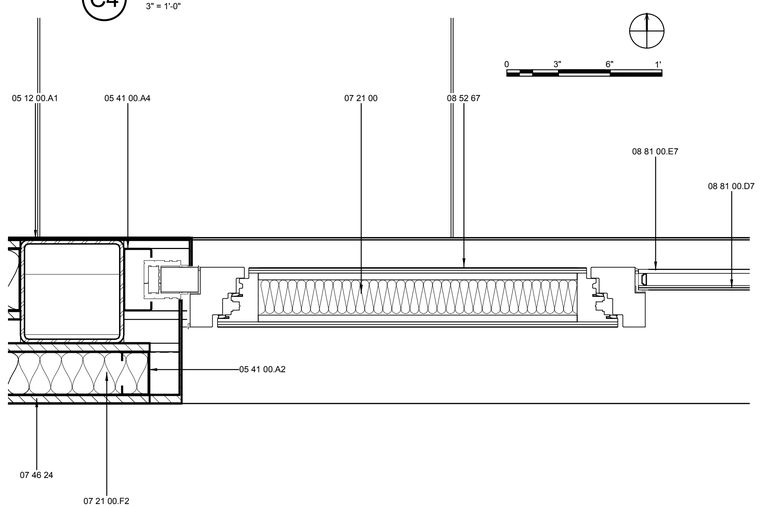
A1 WALL SLIDING WINDOW_2

3" = 1'-0"



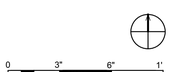
C4 SLIDING WINDOW-FIXED WINDOW

3" = 1'-0"



A4 LEFT MOVABLE PANEL-WALL CONNECTION

3" = 1'-0"



REFERENCE KEYNOTES

05 12 00.A1	
05 41 00.A2	2-1/2" METAL STUD
05 41 00.A4	3-1/2" METAL STUD
07 21 00	THERMAL INSULATION
07 21 00.F1	
07 21 00.F2	
07 46 24	
07 46 29	PLYWOOD SIDING
08 11 00.A6	
08 12 16	ALUMINUM FRAMES
08 52 67	
08 81 00.D7	
08 81 00.E7	

SHEET KEYNOTES

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PLAN DETAILS

A-502

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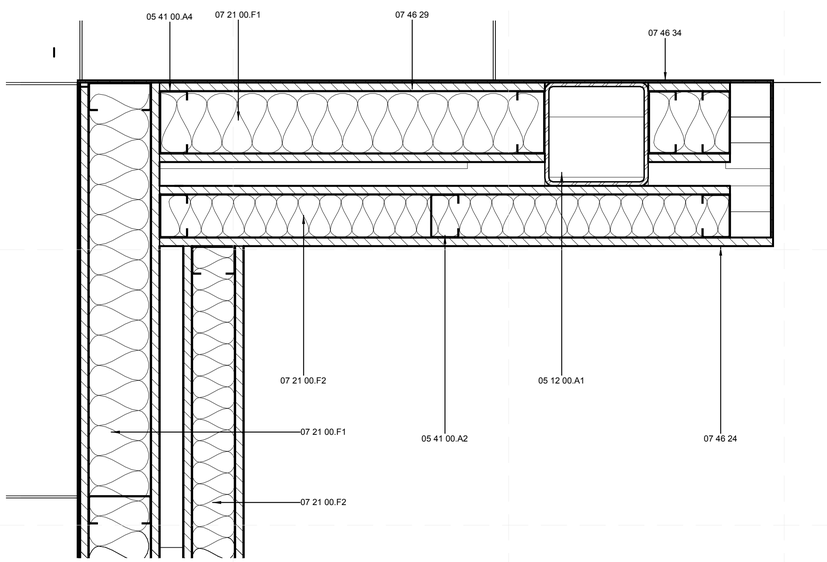
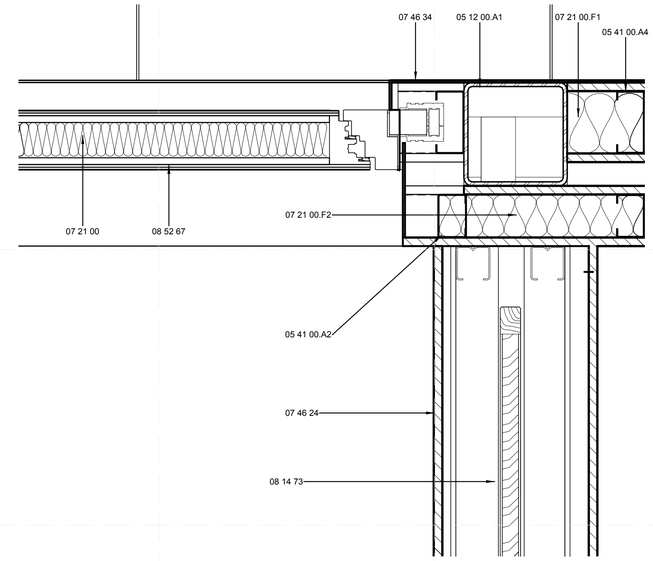


C1 EXTERIOR WALL CONNECTION

3" = 1'-0"

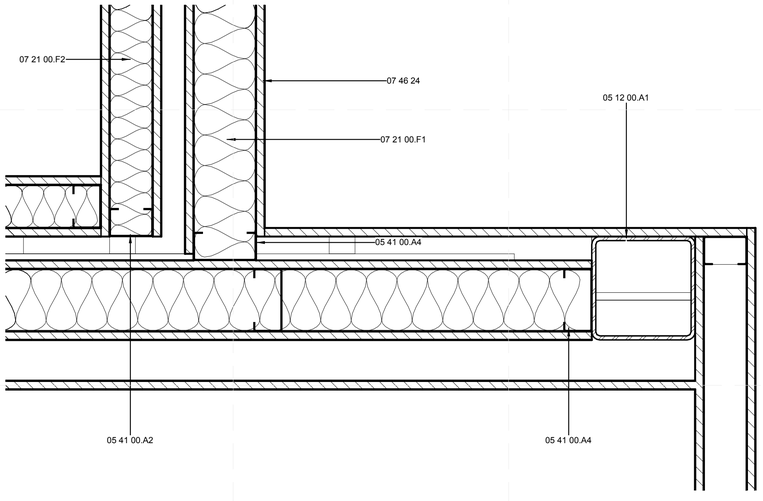
0 3" 6" 1'



C4 RIGHT MOVABLE PANEL-WALL CONNECTION

3" = 1'-0"

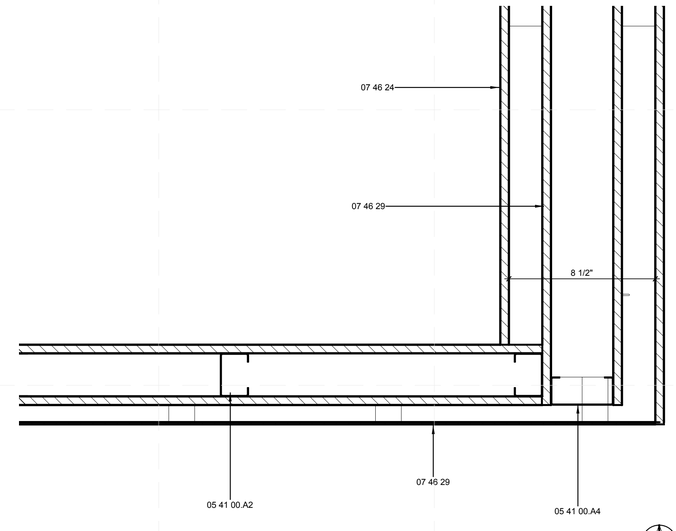
0 3" 6" 1'



A1 INSULATING INTERIOR WALL CONNECTION

3" = 1'-0"

0 3" 6" 1'



A4 INTERIOR WALL CONNECTION

3" = 1'-0"

0 3" 6" 1'

8/17/2015 6:43:27 PM

REFERENCE KEYNOTES

05 12 00.A1	
05 41 00.A2	2-1/2" METAL STUD
05 41 00.A4	3-1/2" METAL STUD
07 21 00	THERMAL INSULATION
07 21 00.F1	
07 21 00.F2	
07 46 24	
07 46 29	PLYWOOD SIDING
07 46 34	
08 14 73	SLIDING WOOD DOORS
08 52 67	

SHEET KEYNOTES

stile

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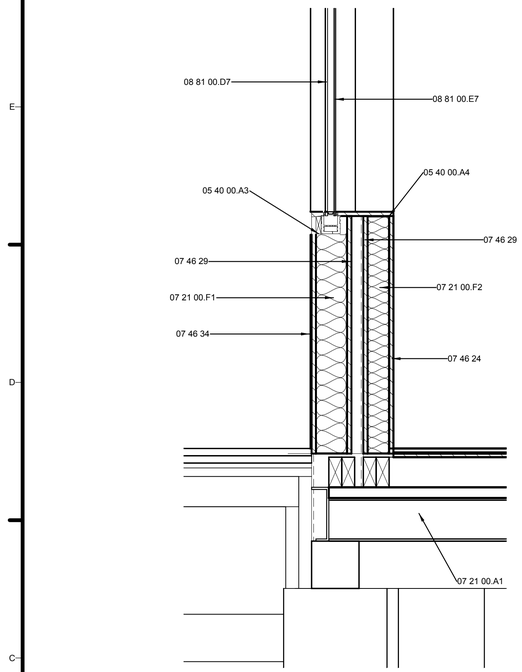
PLAN DETAILS

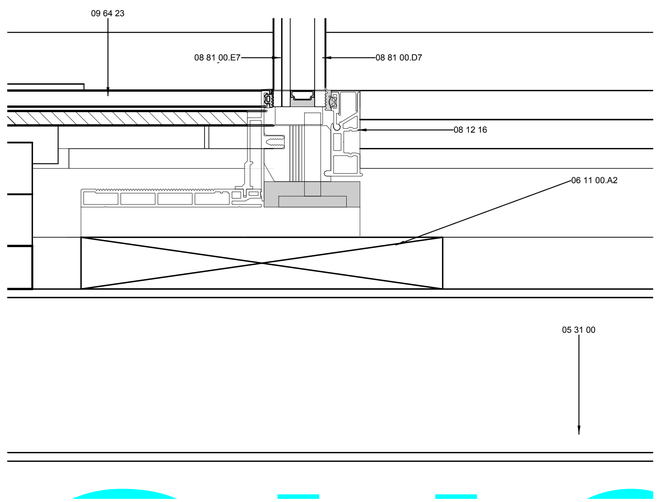
A-503



C1 NORTH WINDOW BASE SECTION DETAIL

1 1/2" = 1'-0"

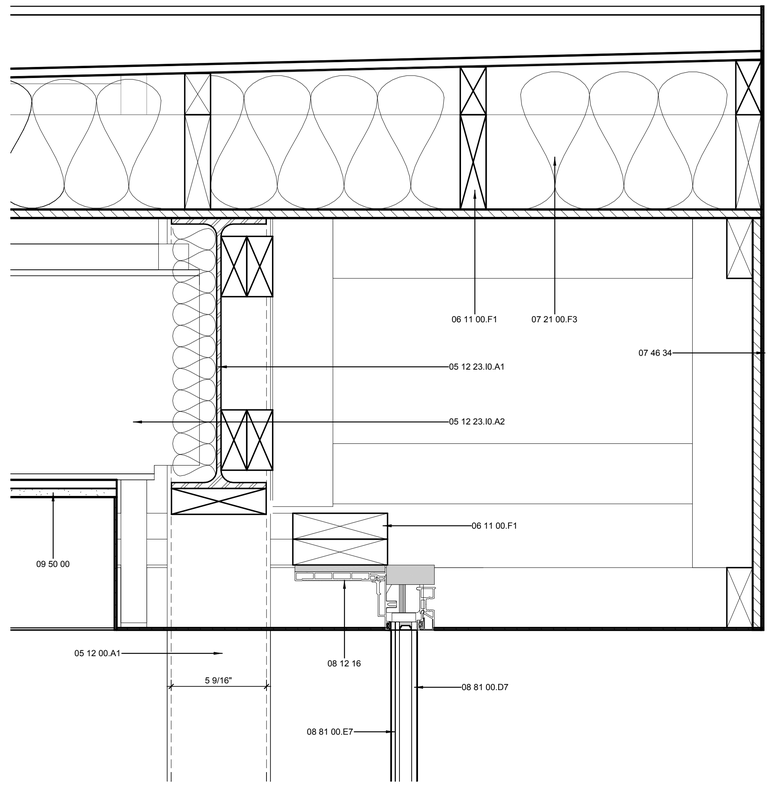
0 1/2" 1" 1 1/2"



A1 FIXED WINDOW BASE SECTION DETAIL

6" = 1'-0"

0 1" 2" 3" 4"



B3 FIXED WINDOW TOP SECTION DETAIL

3" = 1'-0"

0 3" 6" 1'

REFERENCE KEYNOTES

05 12 00.A1	
05 12 23.I0.A1	
05 12 23.I0.A2	
05 31 00	STEEL DECKING
05 40 00.A3	
05 40 00.A4	
06 11 00.A2	WOOD BLOCKING AS REQUIRED
06 11 00.F1	2X6
07 21 00.A1	
07 21 00.F1	
07 21 00.F2	
07 21 00.F3	
07 46 24	
07 46 29	PLYWOOD SIDING
07 46 34	
08 12 16	ALUMINUM FRAMES
08 81 00.D7	
08 81 00.E7	
09 50 00	CEILINGS
09 64 23	WOOD PARQUET FLOORING

SHEET KEYNOTES

stile

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SECTION DETAILS

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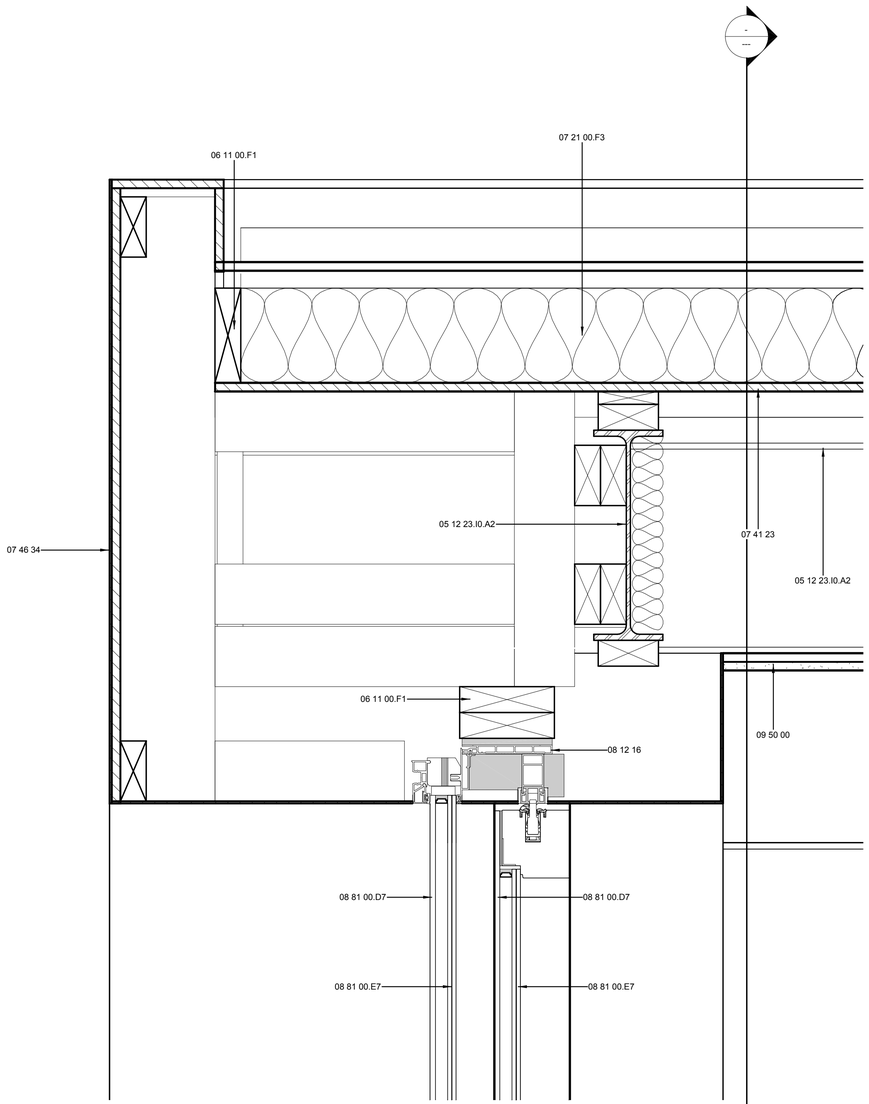

A2 SLIDING DOOR TOP SECTION DETAIL
3" = 1'-0"

0 3" 6" 1'

REFERENCE KEYNOTES

05 12 23.I0.A2	
06 11 00.F1	2X6
07 21 00.F3	
07 41 23	WOOD ROOF PANELS
07 46 34	
08 12 16	ALUMINUM FRAMES
08 81 00.D7	
08 81 00.E7	
09 50 00	CEILINGS

SHEET KEYNOTES

stile

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SECTION DETAILS

A-512

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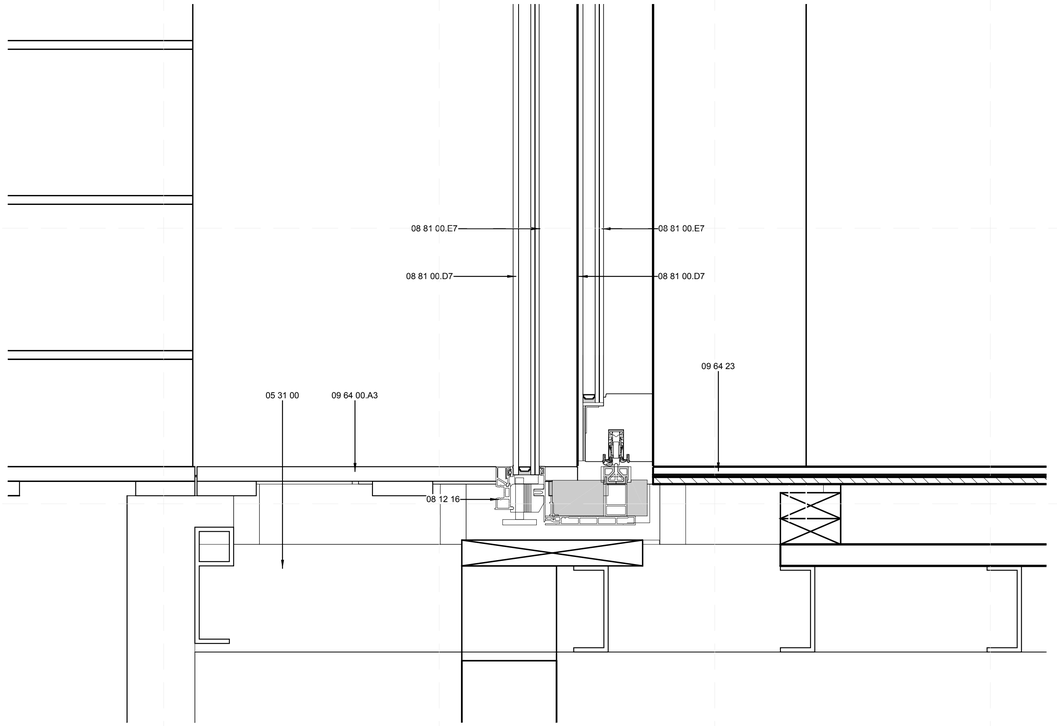

A2 SLIDING DOOR BASE SECTION DETAIL

3" = 1'-0"

0 3" 6" 1'

REFERENCE KEYNOTES

05 31 00	STEEL DECKING
08 12 16	ALUMINUM FRAMES
08 81 00.D7	
08 81 00.E7	
09 64 00.A3	
09 64 23	WOOD PARQUET FLOORING

SHEET KEYNOTES

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SECTION DETAILS

A-513

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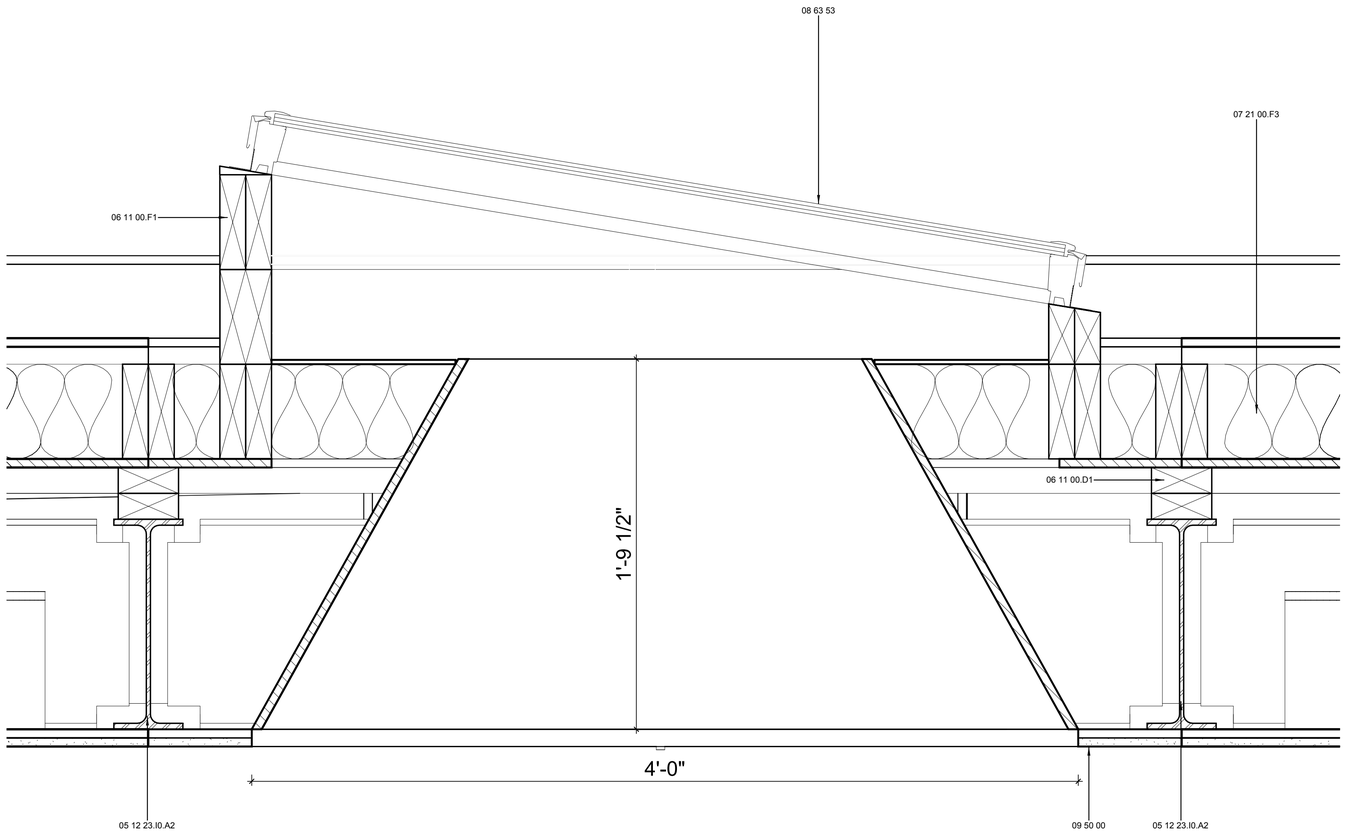

A1 SOLAR CHIMNEY SECTION DETAIL-1

3" = 1'-0"

REFERENCE KEYNOTES

05 12 23.I0.A2	
06 11 00.D1	2X4
06 11 00.F1	2X6
07 21 00.F3	
08 63 53	MOTORIZED METAL-FRAMED SKYLIGHTS
09 50 00	CEILINGS

SHEET KEYNOTES

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SECTION DETAILS

A-514

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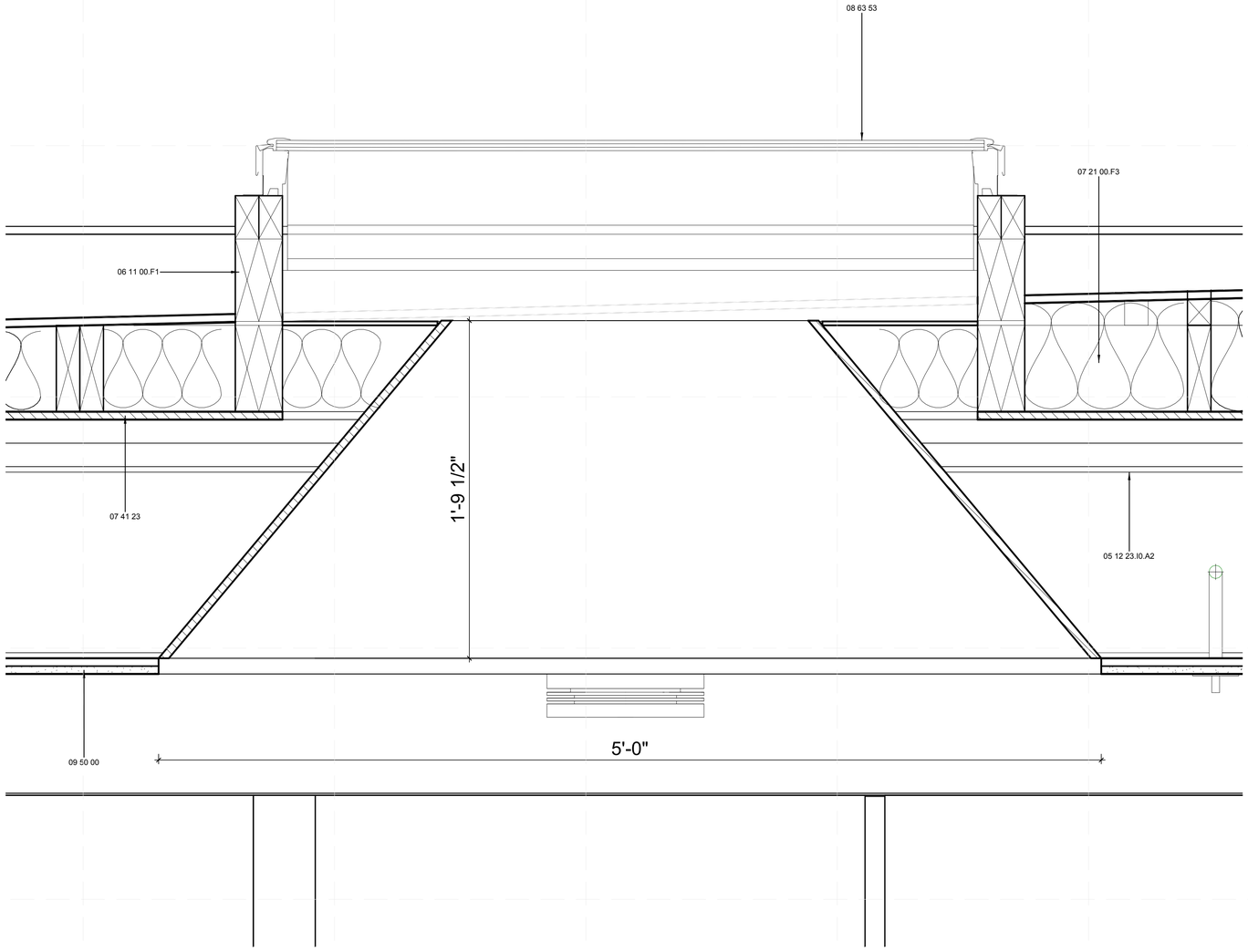

A1 SOLAR CHIMNEY SECTION DETAIL-2

3" = 1'-0"

0 3" 6" 1'

REFERENCE KEYNOTES

05 12 23.I0.A2	
06 11 00.F1	2X6
07 21 00.F3	
07 41 23	WOOD ROOF PANELS
08 63 53	MOTORIZED METAL-FRAMED SKYLIGHTS
09 50 00	CEILINGS

SHEET KEYNOTES

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SECTION DETAILS

A-515

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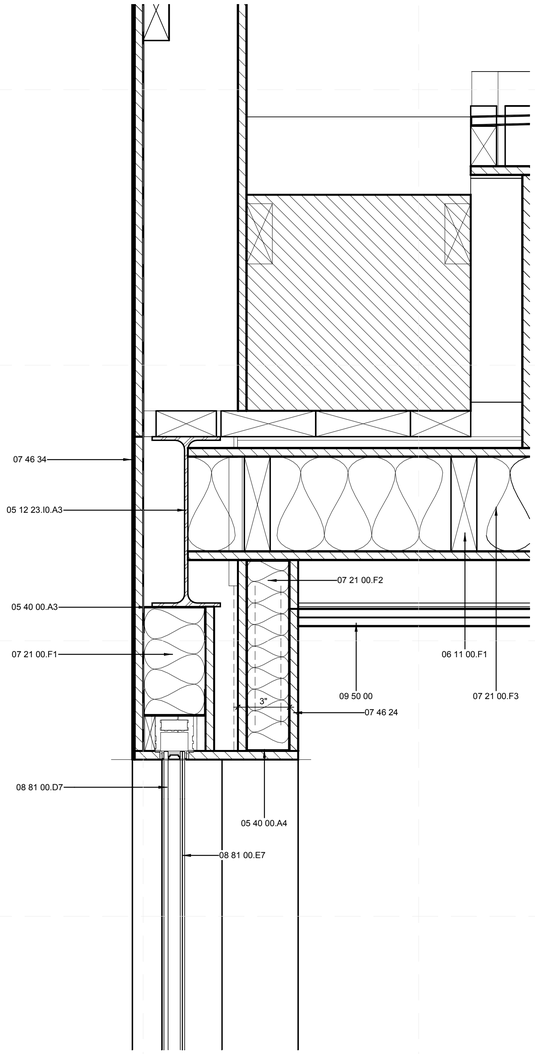
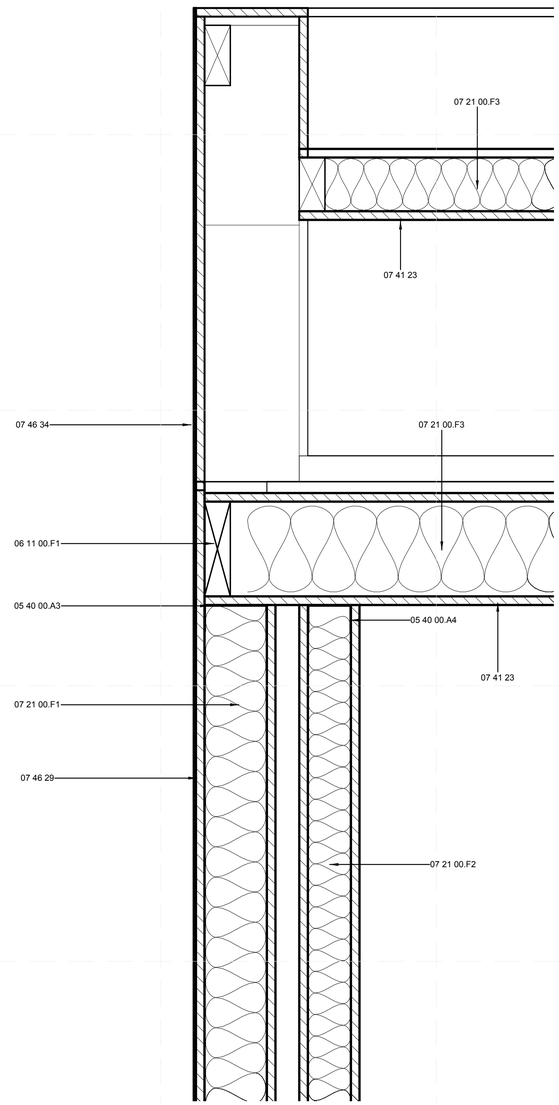


A1 NORTH WINDOW TOP SECTION DETAIL

3" = 1'-0"

0 3" 6" 1'



A4 EXTERIOR WALL SECTION DETAIL

3" = 1'-0"

0 3" 6" 1'

REFERENCE KEYNOTES

05 12 23.I0.A3	
05 40 00.A3	
05 40 00.A4	
06 11 00.F1	2X6
07 21 00.F1	
07 21 00.F2	
07 21 00.F3	
07 41 23	WOOD ROOF PANELS
07 46 24	
07 46 29	PLYWOOD SIDING
07 46 34	
08 81 00.D7	
08 81 00.E7	
09 50 00	CEILINGS

SHEET KEYNOTES

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SECTION DETAILS

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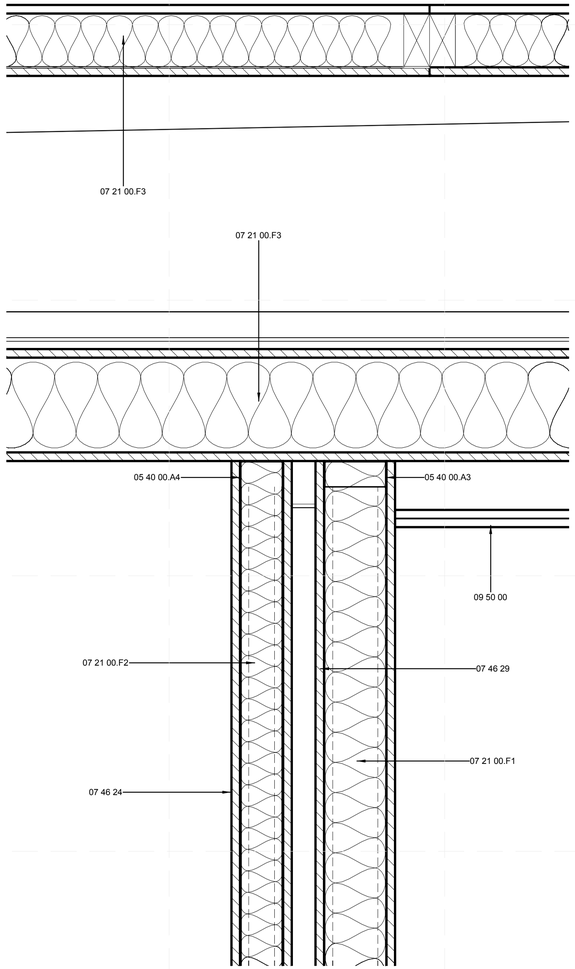
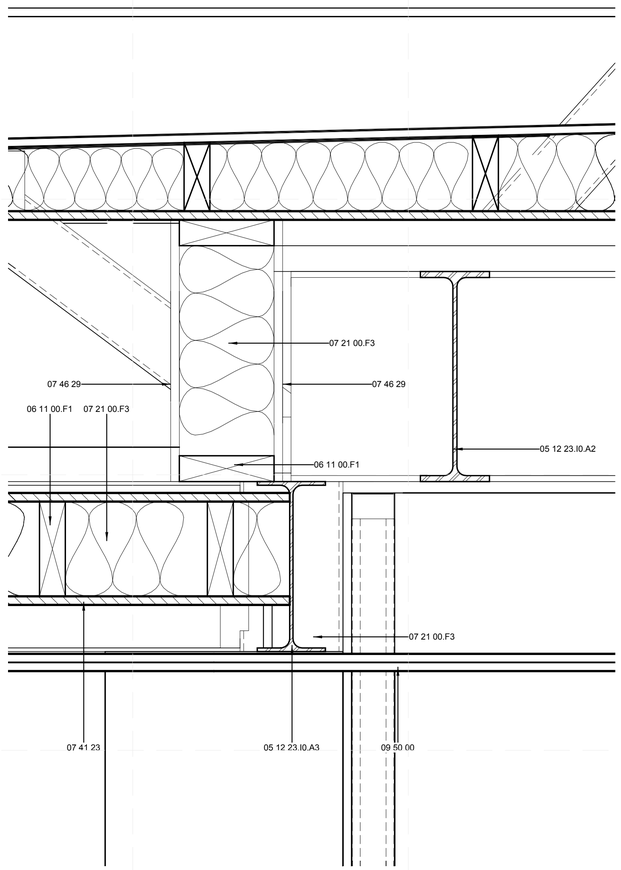


A1 INTERIOR WALL SECTION DETAIL-1

3" = 1'-0"

0 3" 6" 1'



A4 ROOF AND HINGE CONNECTION SECTION DETAIL

3" = 1'-0"

0 3" 6" 1'

REFERENCE KEYNOTES

05 12 00.A2	
05 12 23.I0.A2	
05 12 23.I0.A3	
05 40 00.A3	
05 40 00.A4	
06 11 00.F1	2X6
07 21 00.F1	
07 21 00.F2	
07 21 00.F3	
07 41 23	WOOD ROOF PANELS
07 46 24	
07 46 29	PLYWOOD SIDING
09 50 00	CEILINGS

SHEET KEYNOTES

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SECTION DETAILS

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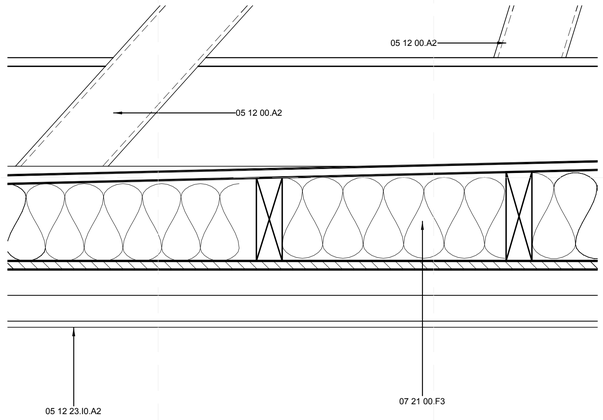
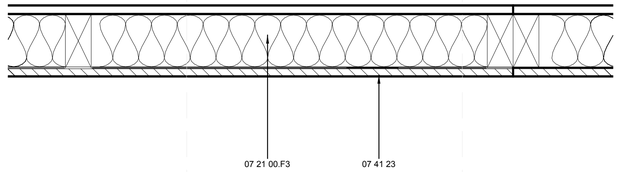
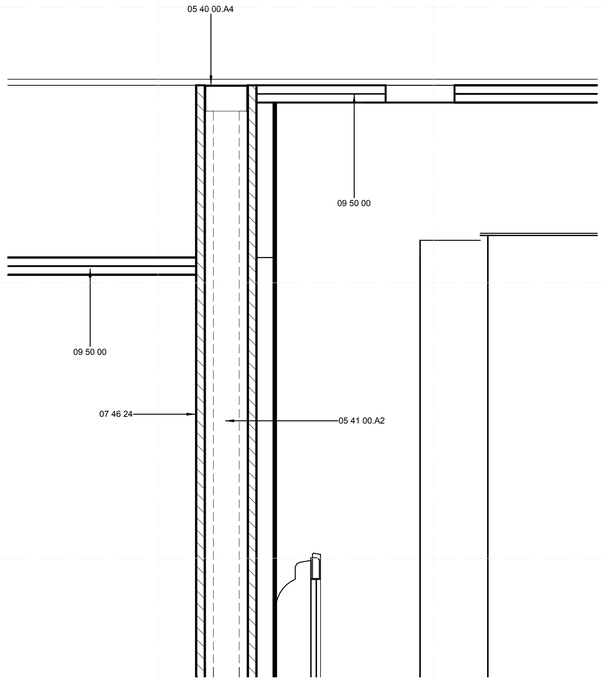


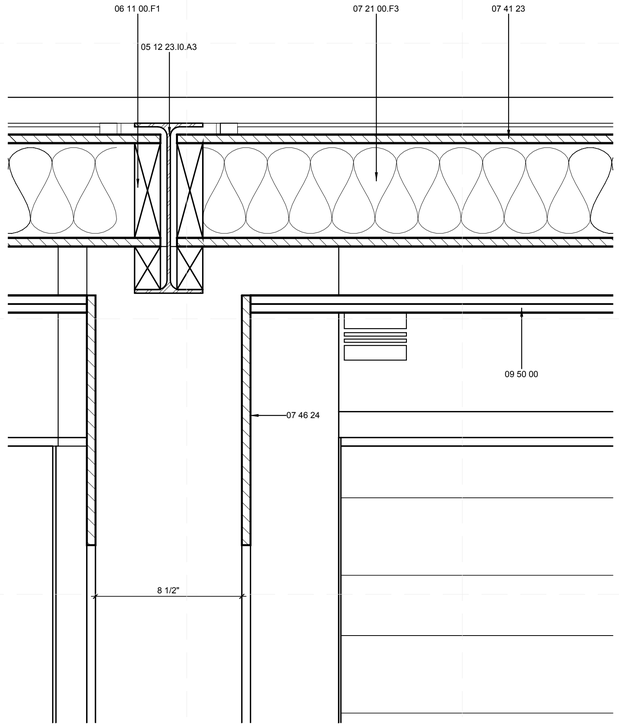




A1 INTERIOR WALL SECTION DETAIL-2

3" = 1'-0"

0 3" 6" 1'



A5 INTERIOR WALL SECTION DETAIL-3

3" = 1'-0"

0 3" 6" 1'

REFERENCE KEYNOTES

05 12 00.A2	
05 12 23.I0.A2	
05 12 23.I0.A3	
05 40 00.A4	
05 41 00.A2	2-1/2" METAL STUD
06 11 00.F1	2X6
07 21 00.F3	
07 41 23	WOOD ROOF PANELS
07 46 24	
09 50 00	CEILINGS

SHEET KEYNOTES

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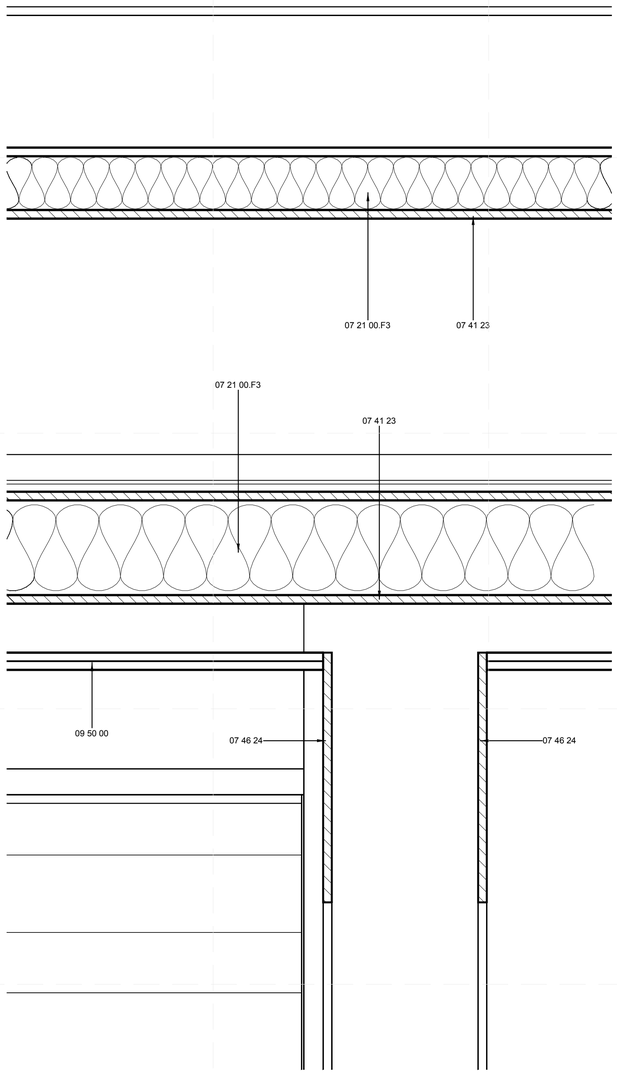
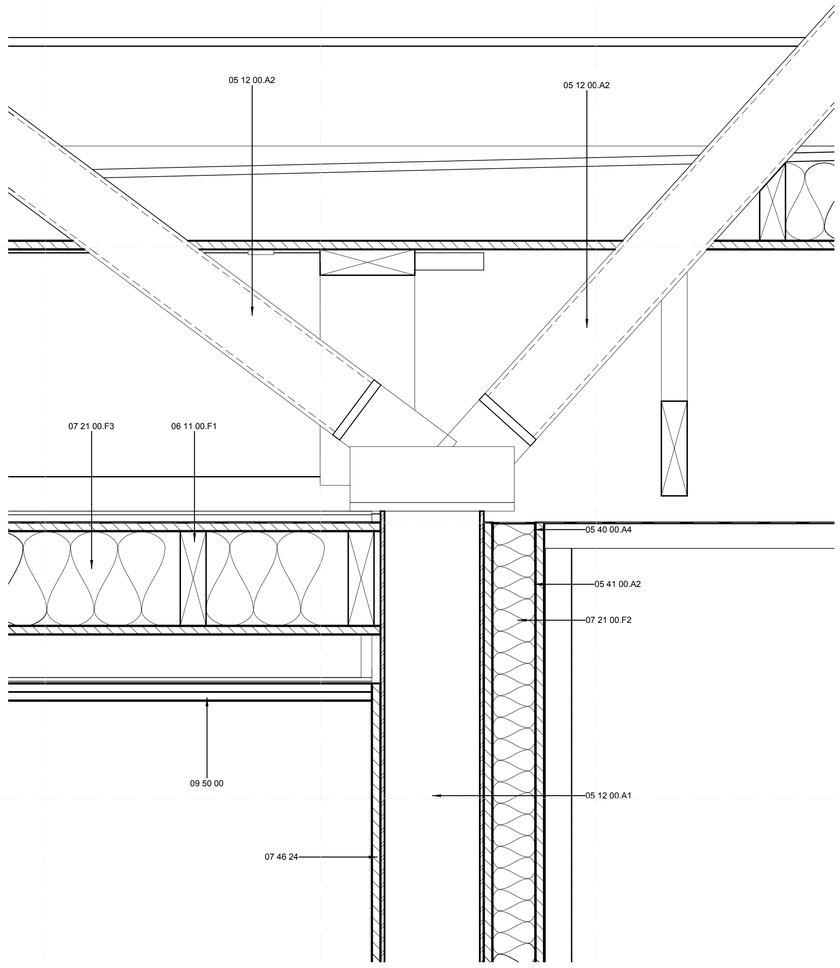


A1 INTERIOR WALL SECTION DETAIL-4

3" = 1'-0"

0 3" 6" 1'



A4 HINGE CONNECTION SECTION DETAIL

3" = 1'-0"

0 3" 6" 1'

REFERENCE KEYNOTES

05 12 00.A1	
05 12 00.A2	
05 40 00.A4	
05 41 00.A2	2-1/2" METAL STUD
06 11 00.F1	2X6
07 21 00.F2	
07 21 00.F3	
07 41 23	WOOD ROOF PANELS
07 46 24	
09 50 00	CEILINGS

SHEET KEYNOTES

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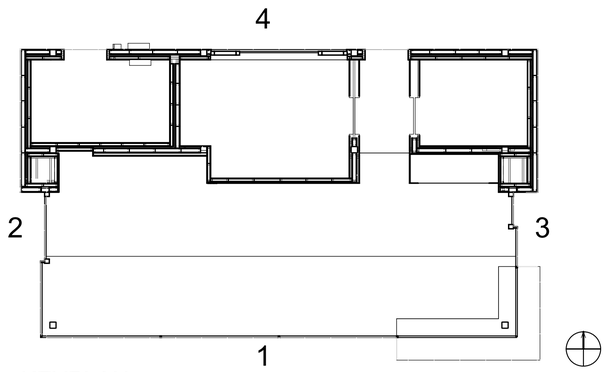
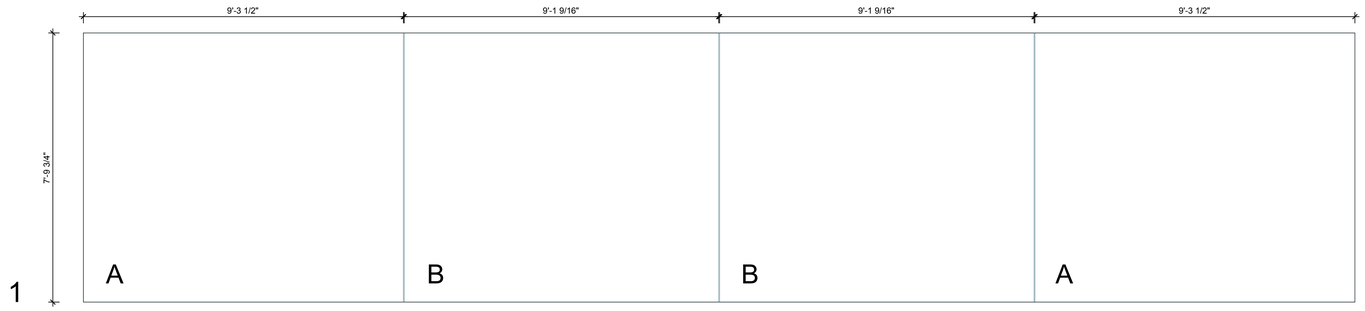
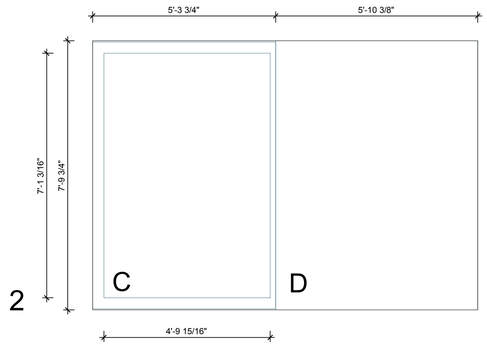
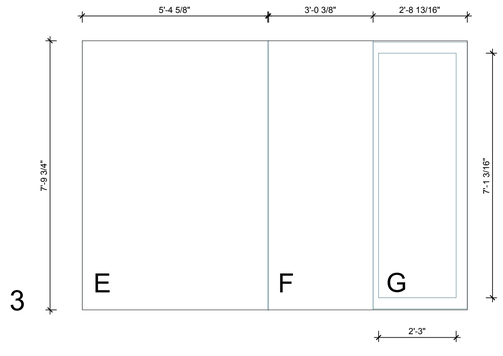


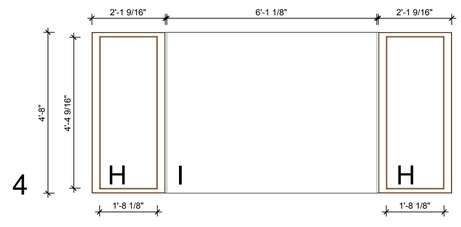
D1 KEYPLAN
3/16" = 1'-0"

WINDOWS SCHEDULE				
MARK	COUNT	WIDTH	HEIGHT	MATERIAL
A	2	9' 3 1/2"	7' 9 3/4"	GLAZING
B	2	9' 1 9/16"	7' 9 3/4"	GLAZING
C	1	5' 3 3/4"	7' 9 3/4"	GLAZING
D	1	5' 10 3/8"	7' 9 3/4"	GLAZING
E	1	5' 4 5/8"	7' 9 3/4"	GLAZING
F	1	3' 0 3/8"	7' 9 3/4"	GLAZING
G	1	2' 8 13/16"	7' 9 3/4"	GLAZING
H	2	1' 8 1/8"	4' 8"	WOOD
I	1	6' 1 1/8"	4' 8"	GLAZING









A1 WINDOWS
1/2" = 1'-0"

0 1' 2' 4'

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WINDOWS SCHEDULE

A-601

GENERAL STRUCTURAL NOTES:

1. SEE PROJECT MANUAL FOR:
   A. QUALITY OF CONSTRUCTION REQUIRED.
   B. PERFORMANCE LEVELS OF WORKMANSHIP.
   C. MANUFACTURING AND INDUSTRY STANDARDS.
   D. STRENGTH AND PHYSICAL REQUIREMENTS OF MATERIALS.
   E. CONFORMANCE TO CODES AND REGULATIONS.
   F. WARRANTY REQUIREMENTS
2. SHOULD A DISCREPANCY OCCUR BETWEEN THE CONSTRUCTION DRAWINGS AND THE PROJECT TECHNICAL SPECIFICATIONS IN THE PROJECT MANUAL, THE SPECIFICATIONS (INCLUDING GEOTECHNICAL REPORT) WILL GOVERN
3. DESIGN CODE: IBC 2012, RISK CATEGORY II
4. NO PROVISIONS HAVE BEEN MADE FOR FUTURE HORIZONTAL OR VERTICAL EXPANSION.

5. WIND DESIGN DATA:
ULTIMATE 3-SECOND GUST DESIGN WIND SPEED: 115 MPH
NOMINAL 3-SECOND GUST DESIGN WIND SPEED: 85 MPH
WIND EXPOSURE CLASSIFICATION: C
INTERNAL PRESSURE COEFFICIENT: +/-0.18 COMPONENTS AND CLADDING
DESIGN WIND PRESSURE FOR EXTERIOR COMPONENT25 PSF

6. EARTHQUAKE DESIGN DATA:
SEISMIC IMPORTANCE FACTOR, Ie = 1.00
MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS:
SS =1.404, S1 = 0.503
DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS:
SDS =0.936, SD1 = 0.503
SEISMIC SITE CLASS: D
SEISMIC DESIGN CATEGORY: D

BASIC SEISMIC FORCE RESISTING SYSTEM:
ORDINARY STEEL BRACED AND MOMENT FRAMES

DESIGN BASE SHEAR:
ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE PROCEDURE

7. LIVE LOAD DATA:

UNIFORM FLOOR LIVE LOADS:

LOCATION	LOAD
RESIDENTIAL	40 PSF

CONCENTRATED FLOOR LIVE LOADS (DISTRIBUTED OVER AN ARE2-1/2 SQ. FT., UNLESS NOTED OTHERWISE):OFFICE BUILDINGS 2000 LBS

HANDRAIL:
TOP RAIL: 200 LB. OR 50 LB/FT APPLIED NON-CONCURRENTLY IN ANY DIRECTION.

8. SNOW LOAD DATA:

GROUND SNOW LOAD, PG = 20 PSF
FLAT ROOF SNOW LOAD, PF =20 PSF (MIN)
SNOW EXPOSURE FACTOR, C_e =1.0
THERMAL FACTOR, CT =1.1
SNOW LOAD IMPORTANCE FACTOR, IS =1.0

9. GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS RELATED TO EXISTING CONSTRUCTION, EXISTING SERVICES, AND THE SITE.

10. CONSTRUCTION LOADS SHALL NOT EXCEED DESIGN LIVE LOADS. SHORING AND RE-SHORING IS THE RESPONSIBIL THE GENERAL CONTRACTOR.

PERFORMANCE REQUIREMENT S:

1. NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION, MANUAL OR CODE (WHETHER OR NOT SPECIFICALLY INCORPORATED BY REFERENCE IN THE CONTRACT DOCUMENTS) SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND RESPONSIBILITIES OF OWNER, CONTRACTOR, ENGINEER, SUPPLIER, OR ANY OF THEIR CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOSE SET FORTH IN THE CONTRACT DOCUMENTS. NOR SHALL IT BE EFFECTIVE TO ASSIGN TO THE STRUCTURAL ENGINEER OF RECORD OR ANY OF THE STRUCTURAL ENGINEER OF RECORD'S CONSULTANTS, AGENTS, OR EMPLOYEES ANT DUTY OR AUTHORITY TO SUPERVISE OR DIRECT THE FURNISHING OR PERFORMANCE OF THE WORK OR ANY DUTY OR AUTHORITY TO UNDERTAKE RESPONSIBILITIES CONTRARY TO THE PROVISIONS OR THE CONTRACT DOCUMENTS.

2. CONTRACT DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO, THE STRUCTURAL DOCUMENTS (DRAWINGS AND SPECIFICATIONS), BUT DO NOT INCLUDE SHOP DRAWING, VENDOR DRAWINGS, OR MATERIALS PREPARED AND SUBMITTED BY THE CONTRACTOR.

3. REFERENCE TO STANDARD SPECIFICATIONS OR ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION OR TENTATIVE SPECIFICATION ADOPTED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED OTHERWISE.

4. CONTRACT DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH THE CODE OF PRACTICE OR SPECIFICATIONS OF ACI, PCI, AISC, SJI, OR OTHER STANDARDS. WHERE A CONFLICT OCCURS WITHIN THE CONTRACT DOCUMENTS, THE STRICTEST REQUIREMENT SHALL GOVERN.

5. CONTRACTOR SHALL OBTAIN AND COORDINATE EDGE OF SLAB AND ROOF DECK EDGE DIMENSIONS, OPENING LOCATIONS AND DIMENSIONS, DEPRESSED SLAB LOCATIONS AND EXTENTS, SLAB SLOPES, CURB LOCATIONS, AND CMU WALL LOCATION. ARCHITECT/STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY OR OMISSION. IN THE EVENT OF DISCREPANCIES, THE NON- STRUCTURAL ARCHITECTURAL DETAILS SHALL GOVERN.

6. CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK. ARCHITECT/STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY.

7. CONTRACTOR SHALL VERIFY THE STRUCTURALLY SUPPORTED MECHANICAL EQUIPMENT WEIGHTS, OPENING SIZES, AND LOCATIONS IDENTIFIED ON THE STRUCTURAL DRAWING WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.

8. CONTRACTOR SHALL VERIFY THAT MISCELLANEOUS FRAMING SHOWN ON THE STRUCTURAL DRAWINGS FOR MECHANICAL EQUIPMENT, OWNER-FURNISHED ITEMS, PARTITIONS, ETC. IS CONSISTENT WITH THE REQUIREMENTS OF SUCH ITEMS.

9. CONTRACTOR HAS RESPONSIBILITY FOR MEANS, METHODS, SAFETY, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.

10. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTABILITY ANALYSIS, AND ERECTION PROCEDURES, INCLUDING DESIGN AND ERECTION OF FRAMEWORK, TEMPORARY BRACING, ETC.

11. CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.

12. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.

13. ELECTRONIC DRAWING FILES WILL NOT BE PROVIDED TO THE CONTRACTOR.

14. STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR THE DESIGN OF STEEL STAIRS, HANDRAILS, CURTAIN WALL/WINDOW SYSTEMS, COLD-FORMED METAL FRAMING, TOILET PARTITION SUPPORTS, SHELF SYSTEMS, OR OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DOCUMENTS, SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY OTHERS AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS.

15. STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR SPECIFYING ALL WATERPROOFING DETAILS AND ELEMENTS ON THE SUPERSTRUCTURE AND BELOW GRADE STRUCTURES.

16. GENERAL CONTRACTOR SHALL REVIEW AND COORDINATE ELEVATOR RAIL AND HOIST REQUIREMENTS WITH STRUCTURAL DRAWINGS. NOTIFY STRUCTURAL ENGINEER IMMEDIATELY IF CHANGES ARE REQUIRED.

STRUCTURAL STEEL:

1. ALL STRUCTURAL STEEL WORK SHALL BE IN ACCORDANCE WITH THE "SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL BUILDINGS" (13TH EDITION) OF THE AISC. MAINTAIN COPY OF EACH ON JOB SITE DURING CONSTRUCTION.

2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:
   A. WIDE FLANGE SHAPES AND WT'S - ASTM A 992 WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI.
   B. CHANNELS, ANGLES, PLATES, AND MISCELLANEOUS CONNECTION MATERIAL - ASTM A36 WITH A MINIMUM YIELD STRENGTH OF 36,000 PSI UNLESS NOTED OTHERWISE.
   C. PIPES - ASTM A501 WITH A MINIMUM YIELD STRENGTH OF 36,000 PSI OR ASTM A53 TYPE E OR S WITH A MINIMUM YIELD STRENGTH OF 35,000 PSI.
   D. TUBES - ASTM A500, GRADE B WITH A MINIMUM YIELD STRENGTH OF 46,000 PSI.

3. ALL BOLTS SHALL BE 3/4 " DIA. UNLESS NOTED OTHERWISE ASTM A325 H.S. BOLT OF EITHER FRICTION OR BEARING TYPE. USE SLIP CRITICAL CONNECTIONS FOR ALL WIND BRACING CONNECTIONS. THREADS SHALL BE INCLUDED IN THE SHEAR PLANE.

4. ALL BOLTED CONNECTIONS SHALL BE MADE ACCORDING TO AISC TABLE II OR III FRAMED BEAM CONNECTIONS. THE MINIMUM DEPTH OF CONNECTION MUST BE MORE THAN ONE HALF THE DEPTH OF THE BEAM EXCEPT THAT BEAMS FRAMING TO COLUMNS SHALL HAVE FULL DEPTH CONNECTIONS USING 3/8 " CONNECTION ANGLES OR PLATES. CONTRACTOR SHALL PROVIDE CERTIFIED DESIGN FOR ALL SHEAR CONNECTIONS BY A PROFESSIONAL ENGINEER IN THE STATE IN WHICH THE PROJECT IS LOCATED. SUBMIT CALCULATIONS FOR MOMENT CONNECTIONS USING BRACED MEMBER CAPACITY U.N.O. ON PLANS. MINIMUM END REACTION OF BEAMS:
   W8'S = 10 KIPS
   W10'S = 12 KIPS
   W12'S = 16 KIPS
   W14'S = 18 KIPS
   W16'S = 20 KIPS
   W18'S = 22 KIPS
   W21'S = 24 KIPS
   W24'S = 26 KIPS
6. ALL WELDING SHALL BE IN STRICT ACCORDANCE WITH THE STANDARDS OF THE AWS AND THE AISC. USE E70XX ELECTRODES.

7. DO NOT PAINT STEEL WHERE ENCASED IN CONCRETE OR AT FIELD WELD AREAS.

8. NO SHOP OR FIELD HOLES OR CUTS ARE TO BE PLACED IN STRUCTURAL MEMBERS UNLESS INDICATED ON THE CONTRACT OR SHOP DRAWINGS.

9. THE STRUCTURAL STEEL FABRICATOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION. PARTICULARLY FOR STAIRS, HANDRAIL SYSTEMS, ETC.

10. THE STRUCTURAL STEEL FABRICATOR SHALL PROVIDE FOR VERTICAL AND HORIZONTAL ADJUSTMENT OF ALL SUPPORT ASSEMBLIES.

11. THE STRUCTURAL STEEL FABRICATOR AND/OR THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS AT THE SITE. ALL DISCREPANCIES FOUND SHALL BE REPORTED TO THE ARCHITECT PRIOR TO PREPARATION OF SHOP DRAWINGS. SHOP DRAWINGS SHALL INCLUDE ALL FIELD MEASUREMENTS AND CONDITIONS.

12. EXPANSION BOLTS: USE EXPANSIVE ANCHORS OF THE DIAMETER INDICATED ON THE DRAWINGS AS MANUFACTURED BY HILTI FASTENING SYSTEMS OR APPROVED EQUAL.
   A. IN CONCRETE, USE HSL HEAVY DUTY ANCHORS.
   B. IN BRICK AND CMU, USE SLEEVE AND FILL CMU CELLS AT ALL BOLT LOCATIONS.
13. ANCHOR BOLTS MUST MEET ASTM A1554 GR. 36 SPECIFICATIONS AND BE 3/4" DIAMETER (UNLESS OTHERWISE INDICATED).

16. ALL GALVANIZING SHALL BE PER ASTM A123 AND A 780. ALL STEEL EXPOSED TO THE ELEMENTS AND MASONRY SUPPORT MEMBERS SHALL BE GALVANIZED. BACKUP STEEL SUPPORTING MASONRY VENEER AND PRECAST SUPPORT ANGLES SHALL BE ZINC PRIMED AND PAINTED.

17. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR POSSIBLE MISCELLANEOUS STEEL. THIS STEEL SHALL ALSO CONFORM TO THE REQUIREMENTS IN THESE GENERAL NOTES AND THE STRUCTURAL STEEL SPECIFICATIONS.

18. STEEL FABRICATOR SHALL BE CERTIFIED UNDER THE AISC QUALITY CERTIFICATION PROGRAM.

20. STEEL FABRICATOR SHALL REVIEW ARCHITECTURAL DRAWINGS AND INCLUDE ALL MISCELLANEOUS STEEL IN THEIR BID. IF NOTES ON ARCHITECTURAL DRAWINGS REFER TO "SEE STRUCTURAL" AND THE STRUCTURAL DRAWINGS DO NOT ADDRESS THIS ITEM NOTIFY THE E.O.R. AT LEAST TWO WEEKS PRIOR TO BID OPENING TO ALLOW TIME FOR ISSUE OF ADDENDUM.

21. COLUMN SCHEDULE MAY NOT INCLUDE ALL COLUMNS ON THE PROJECT. REVIEW ALL DRAWINGS TO INSURE ALL COLUMNS ARE INCLUDED IN BID.

23. SUPPORT FOR RTU'S SHALL BE LIMITED TO FRAMED OPENING STEEL AROUND ROOF OPENINGS. ADDITIONAL STEEL REQUIRED FOR RTU SUPPORT SHALL BE DESIGNED AND PROVIDED BY THE GENERAL CONTRACTOR WITH COORDINATION WITH THE RTU MANUFACTURER.

CONSTRUCTION MEANS AND METHODS

1. CONTRACTOR AGREES THAT CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF THE WORK, INCLUDING SAFELY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD OWNER AND STRUCTURAL ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF OWNER OR STRUCTURAL ENGINEER.

2. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INCLUDE THE METHOD OF CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO: PROTECTION OF SUBGRADE FROM FREEZING CONDITIONS, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, TEMPORARY STRUCTURES, AND PARTIALLY COMPLETED WORK. OBSERVATION VISITS TO THE SITE BY STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

3. ADS CONSULTING ENGINEERS SHALL NOT HAVE CONTROL OVER OR CHARGE OF AND SHALL NOT BE RESPONSIBLE IN ANY WAY FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, OR SAFETY OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH ANY CONSTRUCTION ACTIVITIES, SINCE THESE ARE SOLELY CONTRACTOR'S RESPONSIBILITY UNDER THE CONTRACT.

4. ADS CONSULTING ENGINEERS SHALL NOT BE RESPONSIBLE FOR CONTRACTOR'S SCHEDULE OR FAILURES TO CARRY OUT ANY CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. ADS CONSULTING ENGINEERS SHALL NOT HAVE CONTROL OVER OR CHARGE OF ACTIONS OF CONTRACTOR, SUBCONTRACTOR, OR ANY OF THEIR AGENTS, OR EMPLOYEES, OR ANY OTHER PERSONS PERFORMING PORTIONS OF ANY CONSTRUCTION ACTIVITIES.

5. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED AND PROVIDED BY CONTRACTOR.

STEEL DECK:

1. DESIGN OF STEEL DECK SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO THE REQUIREMENTS OF THE STEEL DECK INSTITUTE (SDI) AND THE CONTRACT DOCUMENTS. SUBMIT SHOP DRAWINGS WIT DESIGN LOAD DATA SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE. REVIEW OF SHOP DRAWINGS SHALL BE FOR CONTRACTOR'S INTERPRETATION OF DESIGN LOADS AND CONTRACT DOCUMENT DETAILS. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR THE DESIGN OF THE STEEL DECK. DECK SHOWN O DESIGN DRAWINGS ARE FOR ESTIMATING PURPOSES ONLY.

2. COMPOSITE STEEL DECK SHALL BE CAPABLE OF SUPPORTING THE LOADS DESCRIBED IN THE SPECIFICATIONS, CORRESPONDING TO THE NUMBER OF SPANS AND THE SPAN LENGTH.
   A. COMPOSITE FLOOR DECK IS DESIGNED TO BE UNSHORED UNLESS NOTED OTHERWISE.
   B. COMPOSITE FLOOR SLABS ARE TO BE FINISHED LEVEL. THE WEIGHT OF THE WET CONCRETE WILL CAUSE DEFLECTIONS OF THE STEEL FRAMING, THUS CONCRETE OVERRUNS ARE TO BE ANTICIPATED AND INCLUDED IN THE CONTRACTOR'S BASE BID.
   C. COORDINATE EMBEDDED ITEMS REQUIRED FOR ARCHITECTURAL, STRUCTURAL AND MECHANICAL ELEMENTS.

LIGHTGAGE STEEL FRAMING (LSF):

1. ALL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE (AISI "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION). WIND LOAD DETERMINATION FOR COMPONENTS AND CLADDING SHALL BE PER ASCE STANDARD, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES

2. ALL STRUCTURAL STUD AND/OR JOIST FRAMING MEMBERS SHALL BE ENGINEERED BY THE MANUFACTURER. DESIGN CALCULATIONS AND SHOP DRAWINGS INDICATING ALL JAMBS, POSTS, HEADERS, BRACING, AND PIECES NECESSARY FOR CONSTRUCTION SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW.

3. EXTERIOR STUD WALLS SHALL BE DESIGNED FOR A MINIMUM UNIFORM WIND PRESSURE AS PER IBC - 2012 FOR COMPONENTS AND CLADDING AND A MAXIMUM PERMISSIBLE HORIZONTAL DEFLECTION OF L/360 (L600 FOR UNREINFORCED VENEER).

4. MAXIMUM STUD SPACING SHALL BE 16" O.C.

5. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS OR AS REQUIRED FOR AN ANGULAR FIT AGAINST ABUTTING MEMBERS.

6. ALL FIELD CUTTING OF STUDS MUST BE DONE BY SAWING OR SHEARING. TORCH CUTTING OF COLD-FORMED MEMBERS IS UNACCEPTABLE.

7. FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS OR WELDING. SCREWS SHALL BE OF SUFFICIENT SIZE TO INSURE THE STRENGTH OF THE COMPONENT. WIRE TYING OF COMPONENTS SHALL NOT BE PERMITTED. ALL WELDS SHALL BE TOUCHED-UP WITH ZINC-RICH PAINT.

8. LSF MEMBERS SHALL BE SECURELY ATTACHED TO THE STRUCTURE WHERE INDICATED ON THE DRAWINGS OR APPROVED SHOP DRAWINGS. FASTENERS SHALL BE COMPATIBLE TO THE STRUCTURAL MEMBERS.

9. PROVIDE VERTICAL SLIDE TRACKS OR SLIDE CLIPS WHERE INDICATED ON THE DRAWINGS OR OTHERWISE REQUIRED TO ALLOW FOR VERTICAL STRUCTURAL MOVEMENTS. MAXIMUM EXPECTED STRUCTURE DEFLECTIONS ARE L/360 AT FLOORS AND L/240 AT ROOFS.

10. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION, SUCH AS SHEETING TYPE, FINISHES, OPENINGS, ETC.

11. FOR VERTICAL LOAD BEARING STUD WALLS, DO NOT LOAD OVERBEARING ROOF OR FLOORS WITH CONSTRUCTION EQUIPMENT AND/OR STORE BUILDING MATERIALS UNTIL BEARING STUDS ARE FULLY INSTALLED AND BRACED ACCORDINGLY. CONTRACTOR REMAINS RESPONSIBLE FOR MEANS AND METHODS AND CONSTRUCTION SITE SAFETY.

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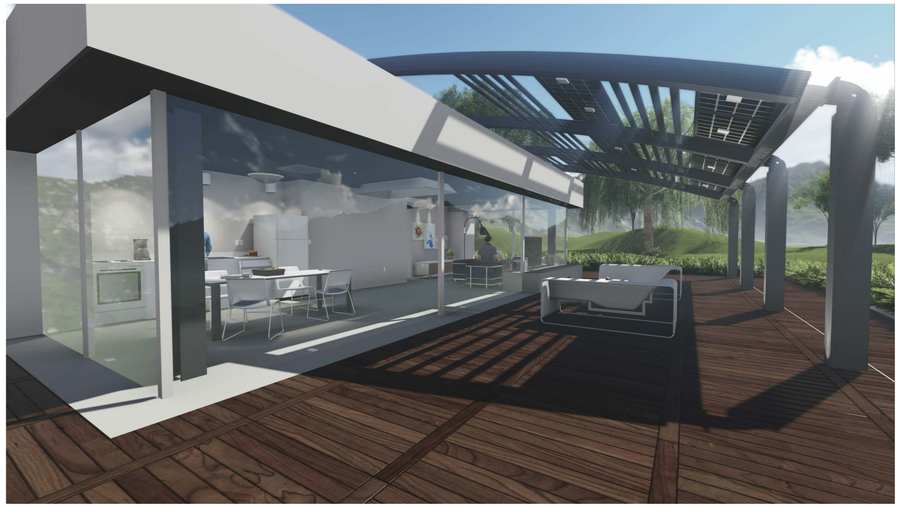
SHEET TITLE

TYPICAL DETAILS

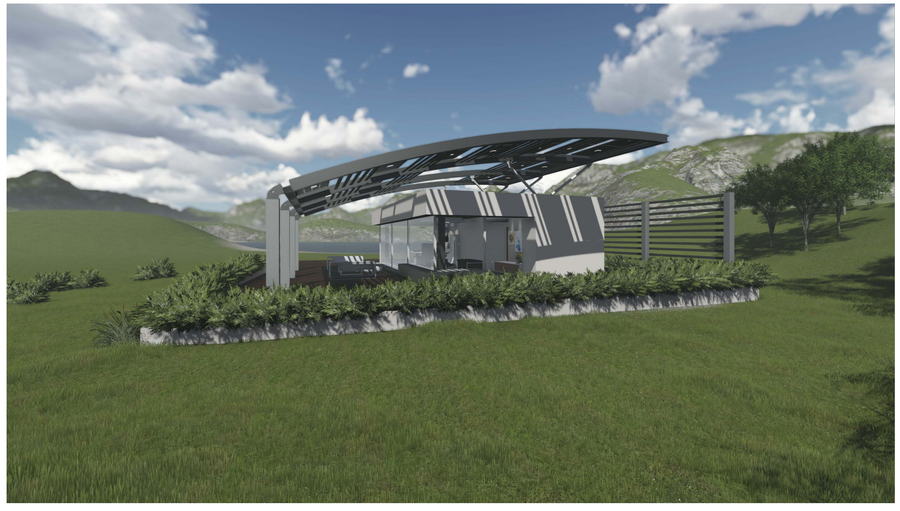
A-701

C1 INTERIOR VIEW



C4 EXTERIOR VIEW

A1 INTERIOR VIEW



A4 EXTERIOR VIEW

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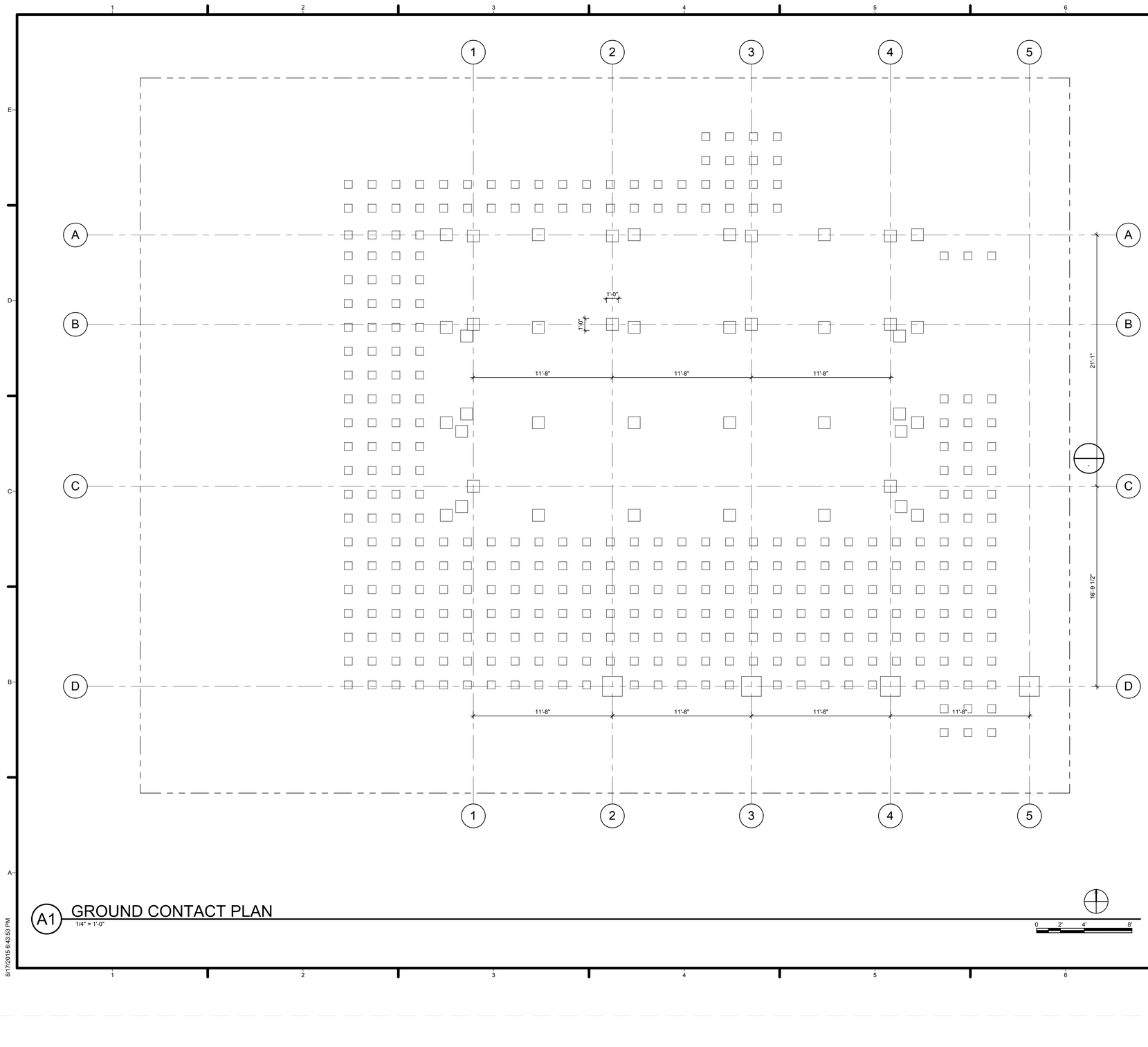
ARCHITECTURAL RENDERINGS

A-901



A1 GROUND CONTACT PLAN

1/4" = 1'-0"

8/17/2015 6:43:53 PM

REFERENCE KEYNOTES

GENERAL SHEET NOTES

JACKS ARE REPRESENTED HERE AS CONCRETE PADS. ADJUSTABLE SCREW JACKS WILL BE USED. SEE SHEET 'C-501' FOR STANDARD USAGE

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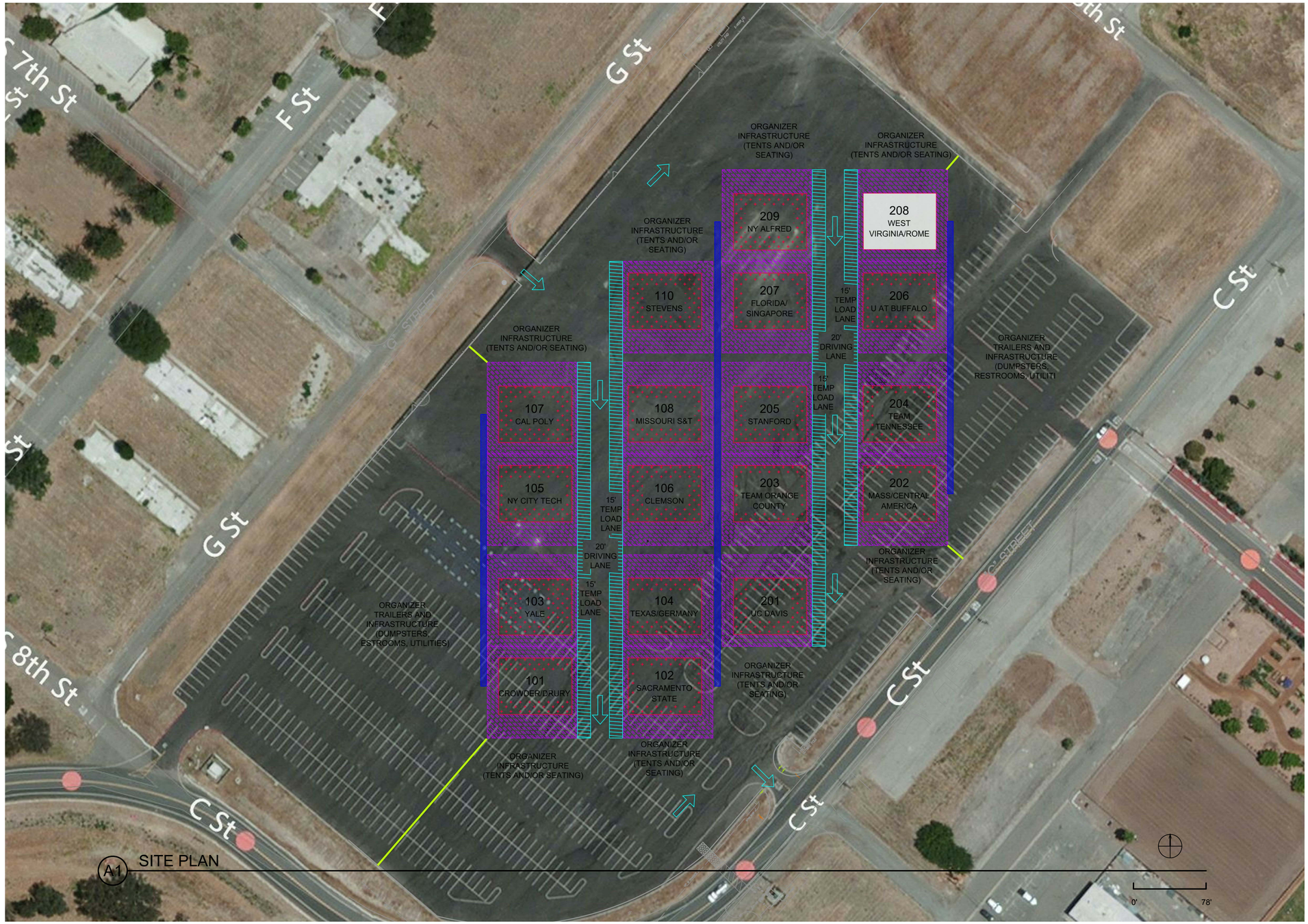
GROUND CONTACT PLAN

C-101



A1 SITE PLAN

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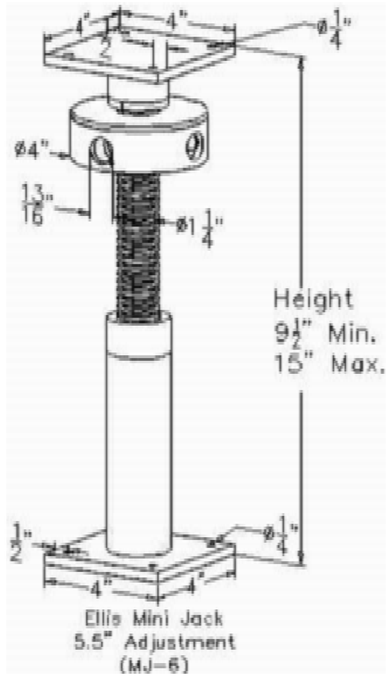
SITE PLAN

C-104



SAMPLE PROCDURE TO ENSURE THAT HOUSE WILL BE ABLE TO ACCOMMODATE CHANGES IN GRADE AS WELL AS WIND UPLIFT

DIVISION 31 KEYNOTE REFERENCES A SCREW JACK WITH 5.5" OF ADJUSTMENT. ATTACHED TO THE JACK ARE 4, 1" DIAMETER, A36 STEEL ANCHORS THE BEAM RESTING ON TOP IS FOR VISUAL REFERENCE ONLY, AND DOES NOT DENOTE AN ACTUAL PROPOSED BEAM SIZE, TYPE, OR DIMENSION.

SHEET KEYNOTES

REFERENCE KEYNOTES

JACK INCLUDES AN AFTERMARKET, WELDED STEEL PLATE, 1'X1' SQUARE, 1/4" THICK. EACH STEEL PLATE CONTAINS FOUR PLACES FOR 1" DIAMETER, A36 STEEL ANCHORS, WHICH CAN SUPPORT AN STEEL COLUMNS WILL BE RESTED ON THE TOP OF EACH JACK AND CONNECTED USING STANDARD CONNECTIONS

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LOT CONDITION ADJUSTMENT DETAILS

C-501

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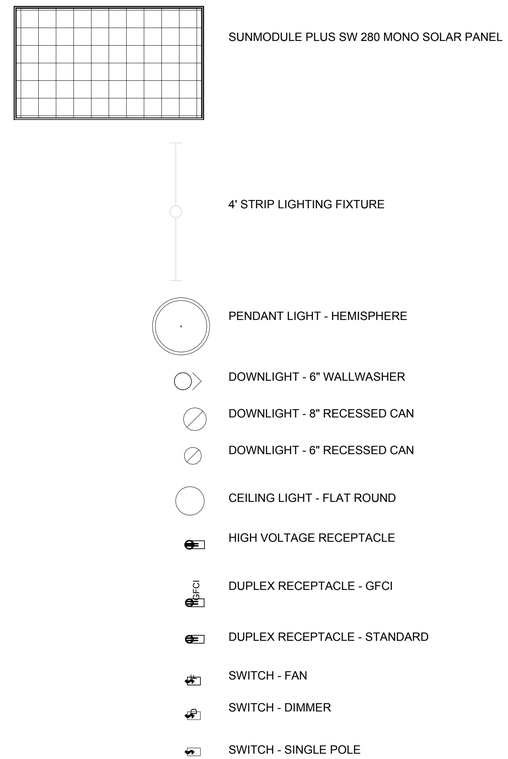

A4 ELECTRICAL SYMBOLS
1/2" = 1'-0"

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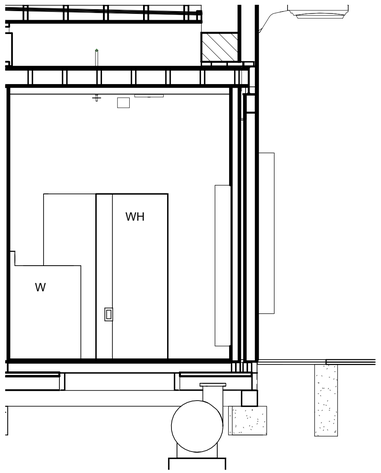
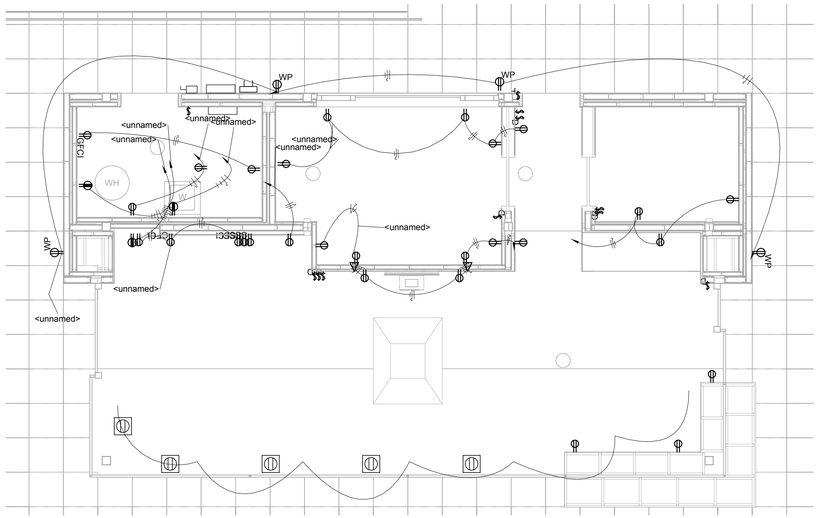
SHEET TITLE

ELECTRICAL SYMBOLS AND NOTES

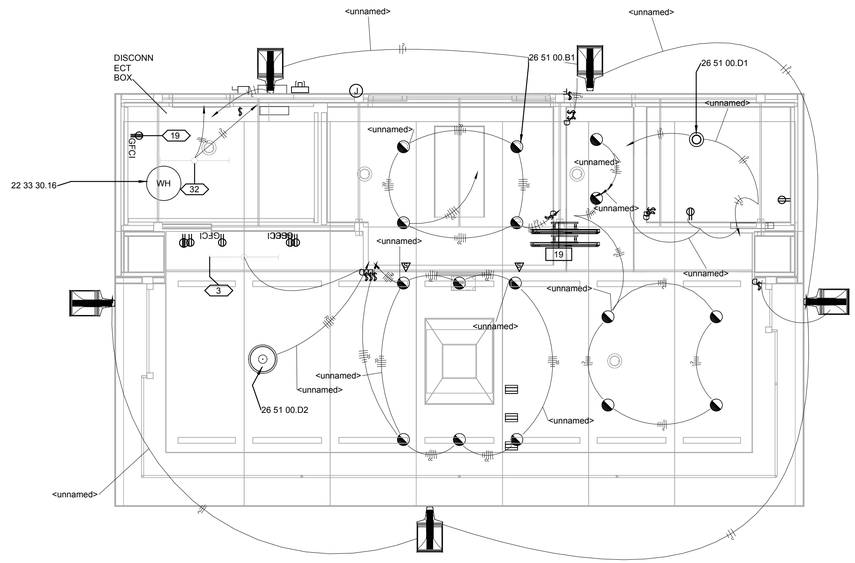
E-001



C1 PANELBOARD/WATERHEATER SECTION
1/2" = 1'-0"



C3 SWITCH AND RECEPTACLE DISTRIBUTION
1/4" = 1'-0"



A2 ELECTRICAL LIGHTING DISTRIBUTION
1/4" = 1'-0"

REFERENCE KEYNOTES

22 33 30.16	WATER HEATER, STORAGE ELECTRIC DOMESTIC
26 51 00.B1	BEDROOM FANS RECESSED INCANDESCENT LIGHT FIXTURE
26 51 00.D1	BATHROOM FANLIGHT
26 51 00.D2	PENDENT LIGHT

GENERAL SHEET NOTES

- RECEPTACLES ARE PLACED WITHIN COMFORTABLE REACH AT ANY POINT WITHIN THE HOUSE. THIS IS IN COMPLIANCE WITH NEC 210.52(A).
- LIGHTING OUTLETS ARE PLACED THROUGHOUT THE HOUSE IN COMPLIANCE WITH NEC 210.70
- ALL RECEPTACLES ARE TAMPER RESISTANT IN COMPLIANCE WITH NEC 406.12
- AFCI PROTECTION IS PRESENT IN ALL CIRCUITS VIA CIRCUIT BREAKERS WITHIN PANELBOARD, INDICATED BY KEYNOTE 26.28.20, IN COMPLIANCE WITH NEC 210.12(A).
- RECEPTACLES PLACED OUTSIDE OF THE HOUSE ARE WEATHER RESISTANT AND MAINTAIN A WEATHERPROOF ENCLOSURE PER NEC 406.9(A) AND 406.9(B)(1)(2)
- RECEPTACLES CONNECTED TO CIRCUIT #9 AND #14 ARE FLOOR MOUNTED, AND MAINTAIN A COVER FOR PROTECTION AGAINST DAMAGE WHEN NOT IN USE.
- MULTIPLE CIRCUITS SERVICING EACH LIVING SPACE IN COMPLIANCE WITH NEC 210.11.
- MACHINE ROOM CLEARANCES COMPLY WITH NEC 110.26.
- DISTANCE BETWEEN THE MAIN PANEL AND WATER HEATER IS 3 FEET IN COMPLIANCE WITH NEC 110-26
- THE MAIN PANEL IS WALL MOUNTED

stile

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ELECTRICAL DISTRIBUTION PLAN

E-101

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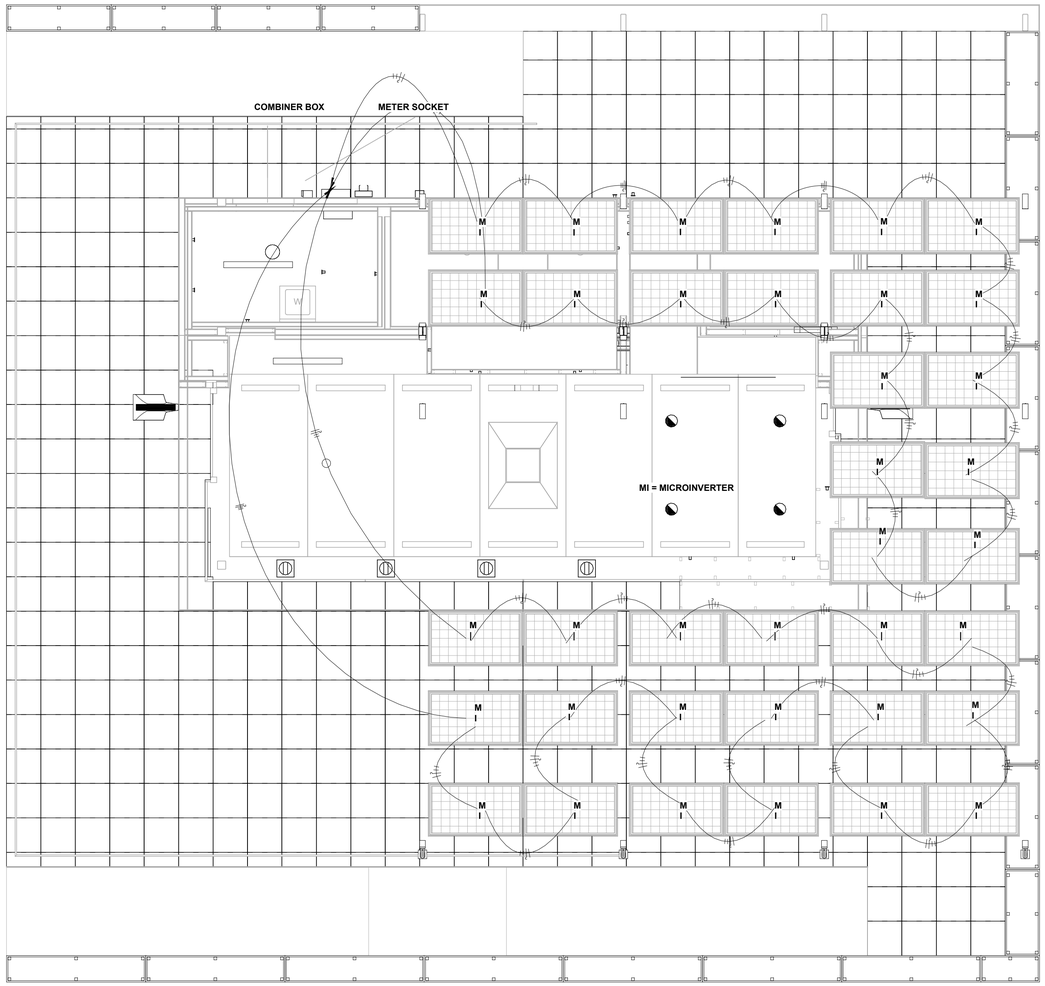

B1 SECOND FLOOR ELECTRICAL
1/4" = 1'-0"

0 2' 4' 8'

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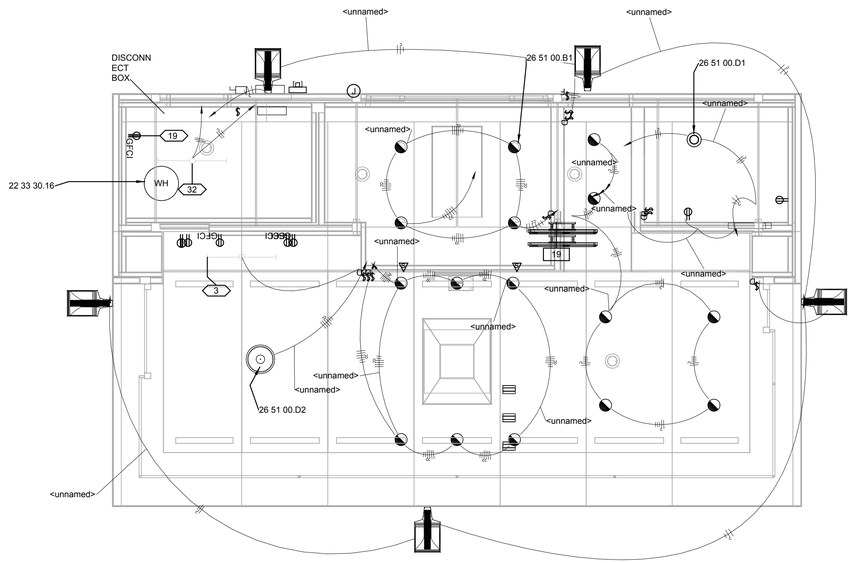
PV WIRING PLAN

E-102



0 2' 4' 8'

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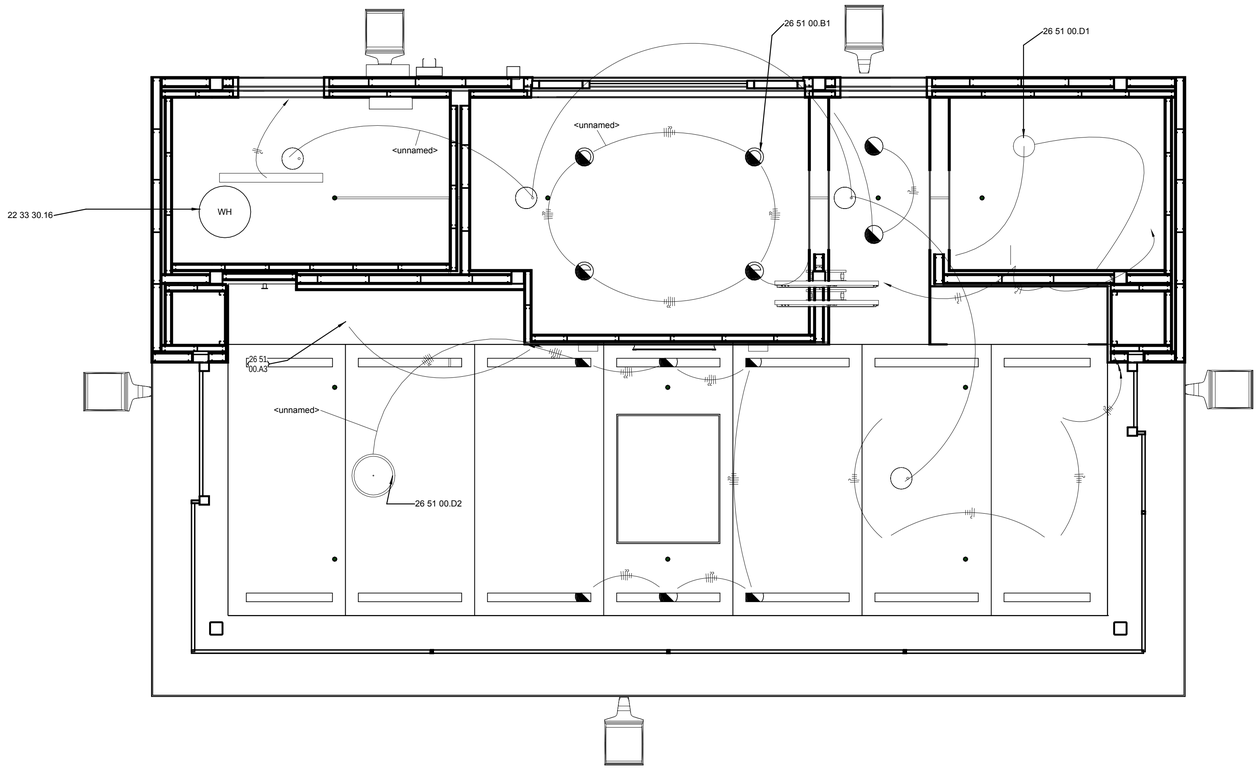
LIGHTING PLAN

E-103



A1 COMPLETE ELECTRICAL SCHEMATIC

3/8" = 1'-0"

0 2' 4' 6'

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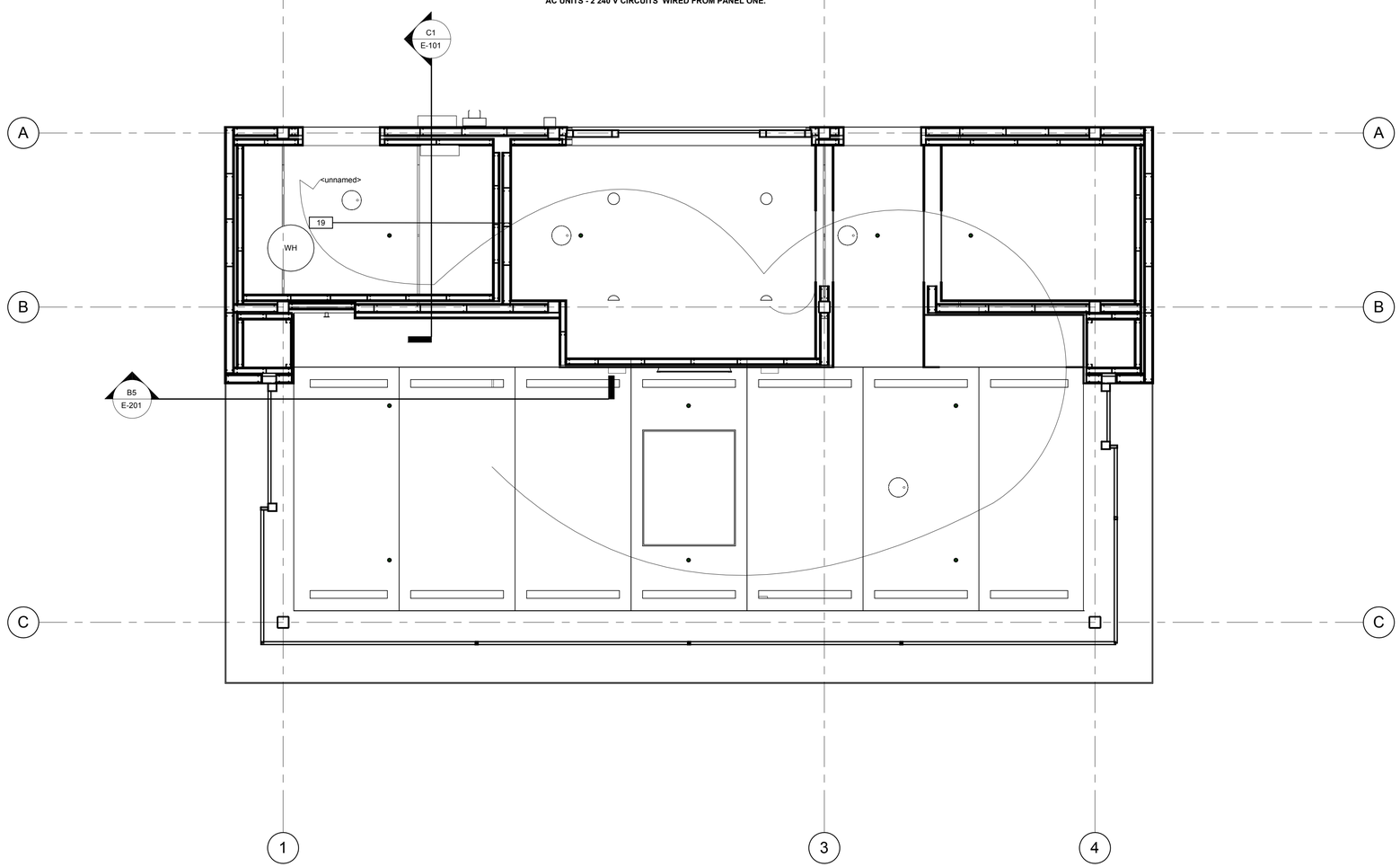
COMPLETE ELECTRICAL SCHEMATIC

E-104

AC UNITS - 2 240 V CIRCUITS WIRED FROM PANEL ONE.



B2 AC UNITS
3/8" = 1'-0"

0 2' 4' 6'

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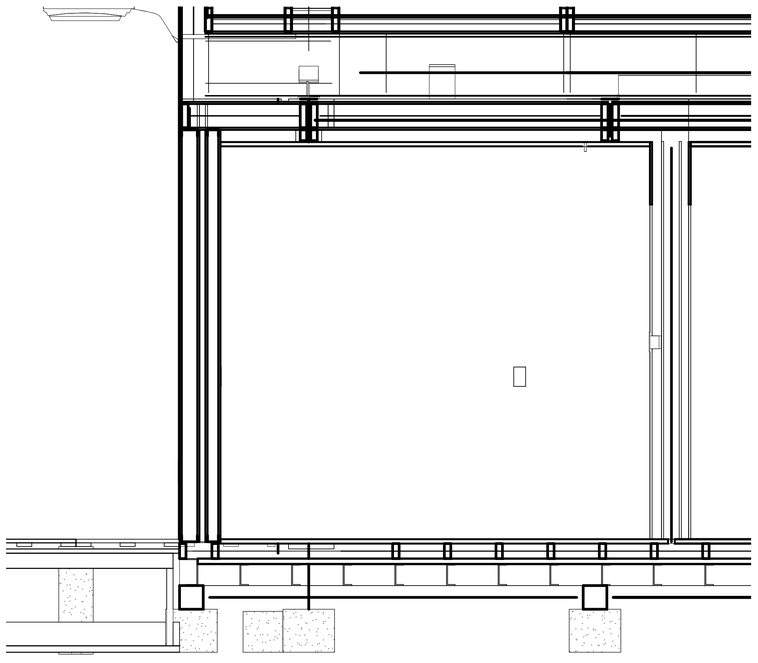
AC UNITS

E-105



WALL WASHER LIGHT

LIGHT SWITCH

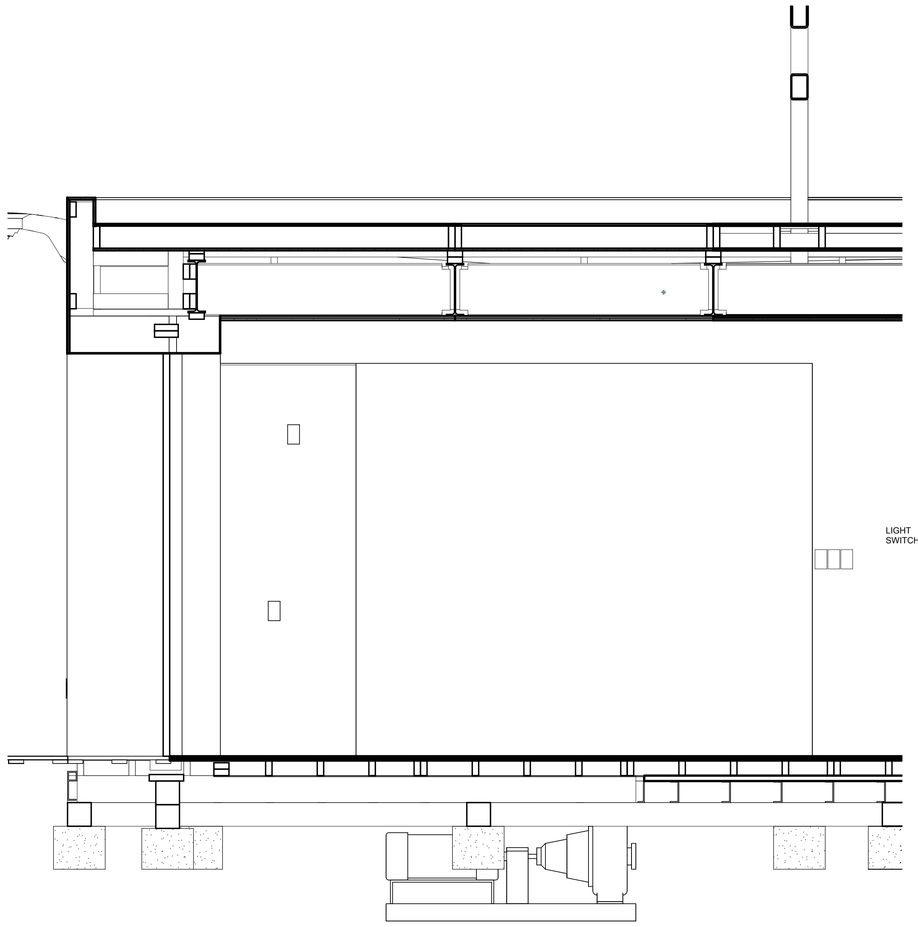
RECEPTACLE

PLUMBING FIXTURE

B2 ELECTRICAL BATHROOM 1

3/4" = 1'-0"

0 1' 2' 3'



LIGHT SWITCH

B5 ELECTRICAL KITCHEN

3/4" = 1'-0"

0 1' 2' 3'

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ELECTRICAL ELEVATIONS

E-201

NOTE 1:THE CONDUCTORS WILL TRANSITION INSIDE THE JUNCTION BOX TO THHN/THWN AND TRAVEL TO THE COMBINER BOX IN EMT WITH WATERTIGHT CONNECTORS/COUPLERS

System comprised of 2 branches
consisting of (18) SW265 watt panels
coupled to (18) SolarEdge Power Optimizer
P300 Micro-Inverters

1 2 3 17 18

SEE NOTE IN THREE-LINE DRAWING

#12
THWN-2

AWG #12 Bare Copper
From All (36)
Microinverters

SEE
NOTE 1

#10
THWN-2
#8
THWN-2
EGC

(3) 20Amp
Breakers

COMBINATION BOX

(2) #8
THWN-2
(Lines)
#8
THWN-2
(Neutral)
#8THWN-2
(EGC)

PV

PV REVENUE METER

(2) #6
THWN-2
(Lines)
#6
THWN-2
(Neutral)
#8 THWN-2
(EGC)

Utility Accessible
AC Disconnect
60A;FUSED

UTILITY SOURCE

M

UTILITY METER

2/0 THHN
SER

LINE SIDE
TAP IN 200 A
PANEL

200
AMP
PANEL

(2) #6
THWN-2
(Lines)
#6
THWN-2
(Neutral)
#8 THWN-2
(EGC)

STRANDED #8 THHN

BONDED WITH
CLAMPS

GROUNDING
CONNECTION OR
GROUNDING ROD FROM
PROVIDERS

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ONE-LINE DIAGRAM

E-601

NOTE 1: INVERTER CLIPS INTO A PRESET CONNECTOR IN THE WIRING HARNESS.

NOTE 2: THE COMBINATION BOX IS USED TO COMBINE ALL OF THE SOLAR PANEL CIRCUITS INTO ONE CIRCUIT.

NOTE3: THE PANEL BOX AIC RATING IS 22,000 Am. THE PANEL SIZE IS 200 AMPS. IN COMPLIANCE WITH 705.12(D)(2)

NOTE4 : ALL WIRES WILL BE BOUND TOGETHER WITH WIRING HARNESS. SIMULARLY THE OPTIMIZERS WILL BE BONDED TO THE SOLAR PANELS

NOTES:
SOLAREDGE SE10000A-US-U INVERTER
MAX OUTPUT CURENT 42 ARMS
MAX INPUT CURRENT 30.5 ADC
GROUND FAULT PROTECTION PROVIDED
PER NEC ARTICLE 690.35

1 2 3 17 18

SOLAREDGE POWER OPTIMIZER P300

1/4"

9/16"

1/4"

SEE (NOTE 5)

COMBINATION BOX (NOTE 2)

(2) #6 THWN-2 (Lines) #6 THWN-2 (Neutral) #6 THWN-2 (EGC)

(2) #6 THWN-2 (Lines) #6 THWN-2 (Neutral) #6 THWN-2 (EGC)

UTILITY SERVICE (INSTALLED BY POWER COMPANY)

UTILITY METER

L1	L2	N

LINE SIDE TAP 2/0 THHN SER

REVENUE METER

AC DISCONNECT 60 A; FUSED

SEE NOTE 3

GROUNDING ELECTRODE #4 BARE COPPER

SELF CONTANIED WIRING HARNESS

#10 THWN

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THREE-LINE DIAGRAM

E-602

ELECTRICAL FIXTURE SCHEDULE				
MARK	CIRCUIT NUMBER	COUNT	FAMILY AND TYPE	TYPE COMMENTS
9	<unnamed>	1	Duplex Receptacle: Standard	
11	<unnamed>	1	Duplex Receptacle: Standard	
12	<unnamed>	1	Duplex Receptacle: Standard	
13	<unnamed>	1	Duplex Receptacle: Standard	
15	<unnamed>	1	Duplex Receptacle: Standard	
16	<unnamed>	1	Duplex Receptacle: Standard	
17	<unnamed>	1	Duplex Receptacle: Standard	
18	<unnamed>	1	Duplex Receptacle: Standard	
19	<unnamed>	1	Duplex Receptacle: Standard	
20	<unnamed>	1	Weather Proof Receptacle: Standard	
21	<unnamed>	1	Duplex Receptacle: Standard	
22	<unnamed>	1	Duplex Receptacle: Standard	
23	<unnamed>	1	Duplex Receptacle: GFCI	
24	<unnamed>	1	High Voltage Receptacle: Standard	
25	<unnamed>	1	Duplex Receptacle: Standard	
26	<unnamed>	1	High Voltage Receptacle: Standard	
27	<unnamed>	1	Duplex Receptacle: Standard	
29	<unnamed>	1	Duplex Receptacle: Standard	
32	<unnamed>	1	Duplex Receptacle: Standard	
33		1	Junction Boxes - Load: 6x6x4"junction box	
35		1	Weather Proof Receptacle: Standard	
36	<unnamed>	1	Duplex Receptacle: GFCI	
37		1	Duplex Receptacle: Standard	
38		1	Duplex Receptacle: Standard	
39		1	Weather Proof Receptacle: Standard	
40		1	Weather Proof Receptacle: Standard	
41		2		
42		1	Duplex Receptacle: Standard	
44	<unnamed>	1	High Voltage Receptacle: Standard	
45	<unnamed>	1	Duplex Receptacle: GFCI	
46	<unnamed>	1	Duplex Receptacle: GFCI	
47	<unnamed>	1	Duplex Receptacle: GFCI	
48	<unnamed>	1	Duplex Receptacle: Standard	
56		1	Switch: Door bell	
58	7	1	ZMM_Duplex Receptacle - Floor Mounted: Standard	
59		1	ZMM_Duplex Receptacle - Floor Mounted: Standard	
60		1	Duplex Receptacle: Standard	
66		1	ZMM_Duplex Receptacle - Floor Mounted: Standard	
67	29,31	1	ZMM_Duplex Receptacle - Floor Mounted: Standard	
69		1	Duplex Receptacle: Standard	
70		1	Duplex Receptacle: Standard	
73	10	1	Duplex Receptacle: Standard	

LIGHTING FIXTURE SCHEDULE					
MARK	FAMILY AND TYPE	MANUFACTURER	MODEL	LAMP	COMMENTS
	600-LED: 600-LED			LED	
	flat_panel_lcd_4936: flat_panel_lcd_4936				
	Lighting-Wall-Cooper-Shaper-600-Series-LED: Lighting-Wall-Cooper-Shaper-600-Series-LED	Cooper Lighting	600 Series LED	LED	Luminous Sconce Vanity
2	Ceiling Light - Flat Round: 60W - 120V			A-19	
3	Luminaries_Site_Gull-Area_Gardco_G18: As Specified	Philips Gardco Lighting	G18	As Specified in 26 56 00	
3	Strip Lighting Fixtures: 4' 1 Lamp - 120				
4	Pendant Light - Hemisphere: 100W - 120V			A-19	
7	ZMM_Downlight - Recessed Can: 6" Incandescent - 120V			A-19	
32	Strip Lighting Fixtures: 4' 2 Lamp - 120				

LOAD CALCULATIONS

LOAD DESCRIPTION	CODE REFERENCE	VA
LIGHTING 990 SQ FT * 3 VA / FT	(NEC 220.12	2970
SMALL APPLIANCE CIRCUITS	(NEC 220.14)	2879
WASHER	(NEC 220.52 B)	1500
DRYER	(NEC 220.54	5600
HVAC UNIT	(NEC 440 IV)	4000
REFRIDGERATOR @75%	(NEC 440 IV)	600
RANGE	(NEC TABLE 220.55)	8000
WATER HEATER @ 75%	(NEC 220.53)	3375
DISHWASHER @75%	(NEC 220.53)	639
CAR CHARGER	(NEC 625))	7200

TOTAL VA	36763 VA
TOTAL CURRENT - (TOTAL VA)/(240 V)	153 AMPS
ELECTRICAL SERVICE / MAIN BREAKER RATING	200 AMPS

NEUTRAL CONDUCTOR CALCULATIONS

LOAD DESCRIPTION	VA
GENERAL LIGHTING AND RECEPTACLES	4502
COOKING	8400
FIXED APPLIANCES	5135
DRYER	3920
CAR CHARGER	7200
TOTAL VA	29157 VA

A1 LOAD CALCULATIONS
1/2" = 1'-0"

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SCHEDULES AND CALCULATIONS

E-603

FIRE PROTECTION SHEET LIST	
SHEET NO	SHEET NAME

F-001	FIRE PROTECTION NOTES AND SYMBOLS
F-101	FIRE DETECTION AND ALARM
F-102	FIRE SUPPRESSION

SMOKE DETECTOR

WET PIPE FIRE SPRINKLER

C1 FIRE PROTECTION SYMBOLS
1" = 1'-0"

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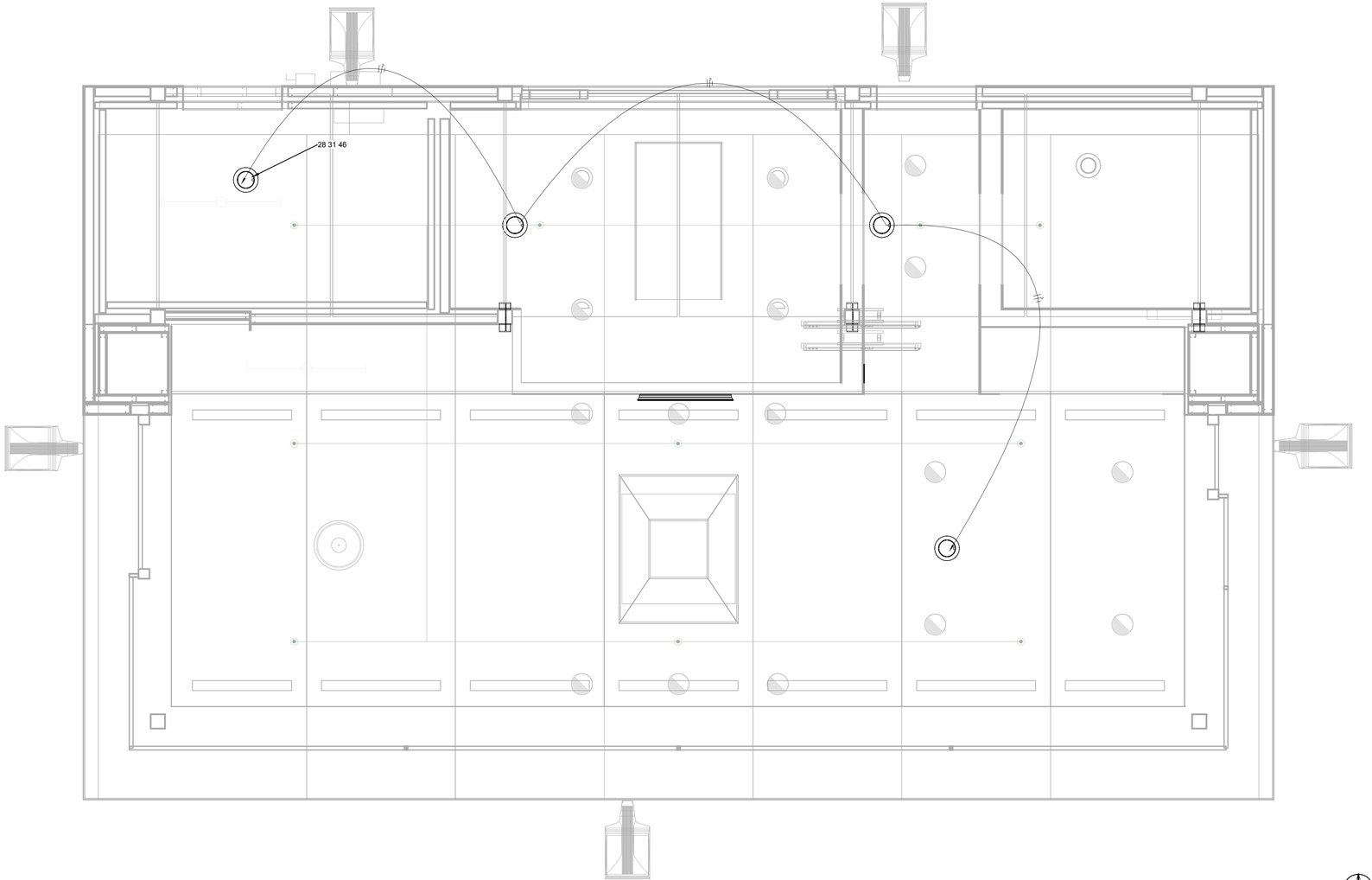
FIRE PROTECTION NOTES AND SYMBOLS

F-001



A1 FIRE DETECTION AND ALARM
1/2" = 1'-0"

0 1' 2' 4'

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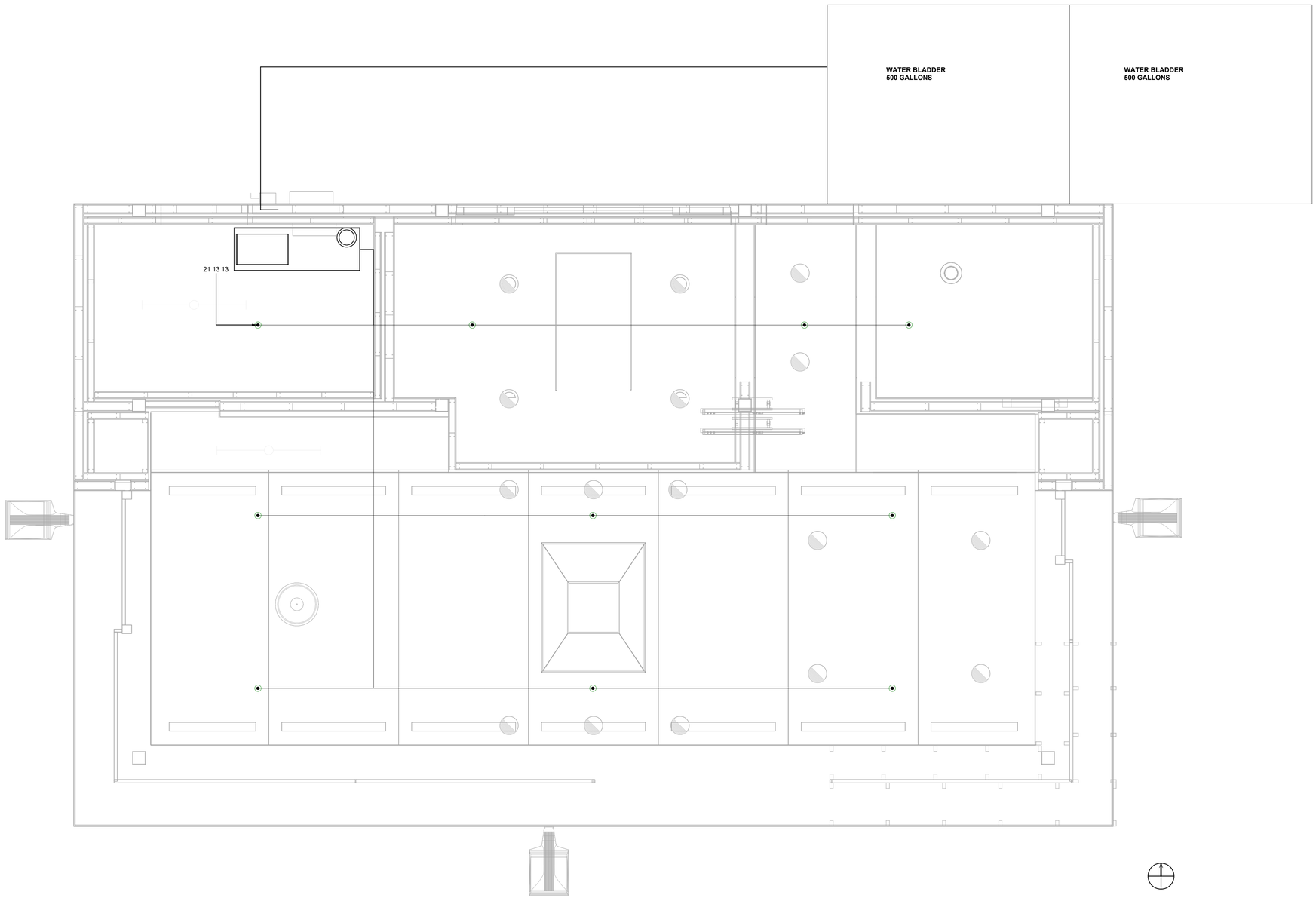
FIRE DETECTION AND ALARM

F-101



A1 FIRE SUPPRESSION
1/2" = 1'-0"

0 1' 2' 4'

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FIRE SUPPRESSION

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COVER PAGE

G-001

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SHT NO	SHEET NAME	Sheet order

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SHT NO	SHEET NAME	Sheet order

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TABLE OF CONTENTS

G-002

8/17/2015 6:44:21 PM

SYMBOL LEGEND	
MARK	DESCRIPTION
ROOM NAME 150 SF	AREA TAG
DETAIL NUMBER / SHEET NUMBER; REF	CALL OUT TAG
℄	CENTERLINE
101	DOOR TAG
1 / A101	EXTERIOR ELEVATION TAG
0 2' 4' 8'	GRAPHIC SCALE
	NORTH ARROW
A4 / A101	SECTION TAG
01	REVISION TAG
1T	WINDOW TAG

ABBREVIATION LEGEND
A
A/C
ADA
ALUM
B.O
BRD
BS
CAB
CL
CSWK
CW
DS
DT
DW
EQ
ERV
EXT
FIN
FL
FRZ
FSW
FTG
GALV
GEN
GFCI
GWB
GYP
H
HP
HVAC
HX
HXEST
HW
IN
INSUL
INT
JB
L
LDW
LICL
MAT
Max
MEP
MI

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GENERAL NOTES AND SYMBOLS

G-003

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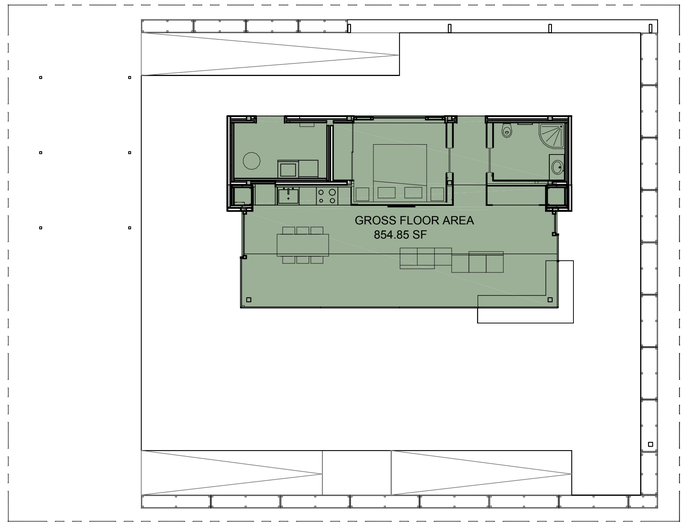
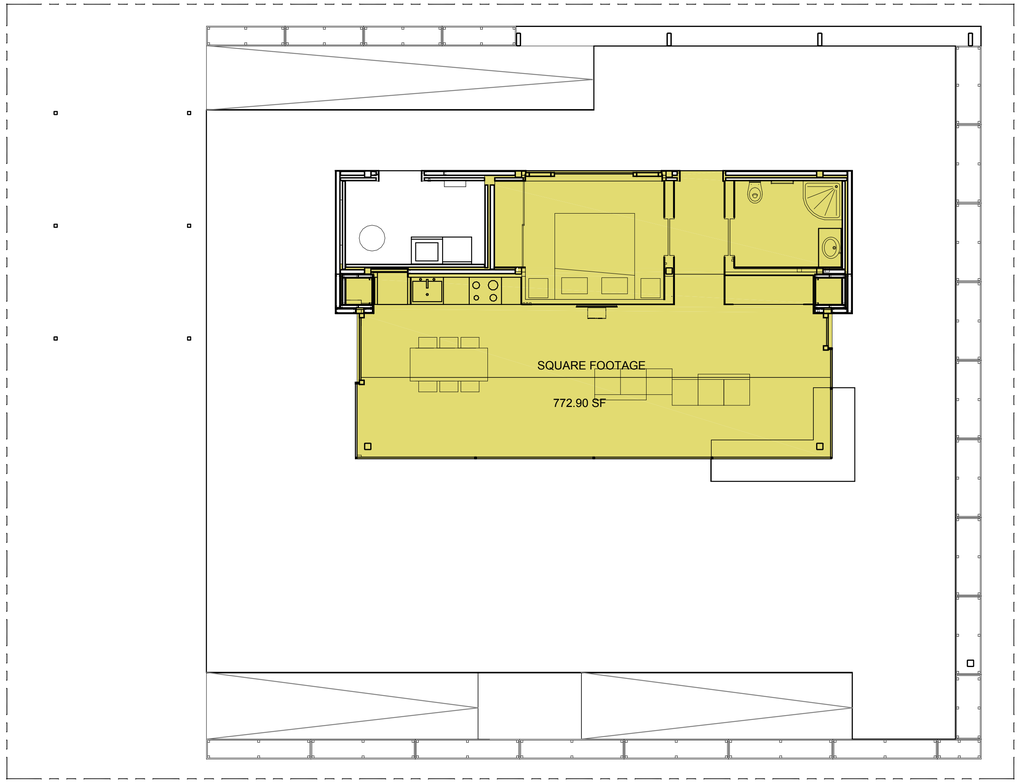


C1 GROOS FLOOR AREA
1/8" = 1'-0"

0 4' 8' 16'

A1 FIRST FLOOR - 03
1/8" = 1'-0"

0 4' 8' 16'



B4 FINISHED SQUARE FOOTAGE COMPLIANCE PLAN
3/16" = 1'-0"

0 2' 4' 6'

stile

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FINISHED SQUARE FOOTAGE COMPLIANCE PLAN

G-101

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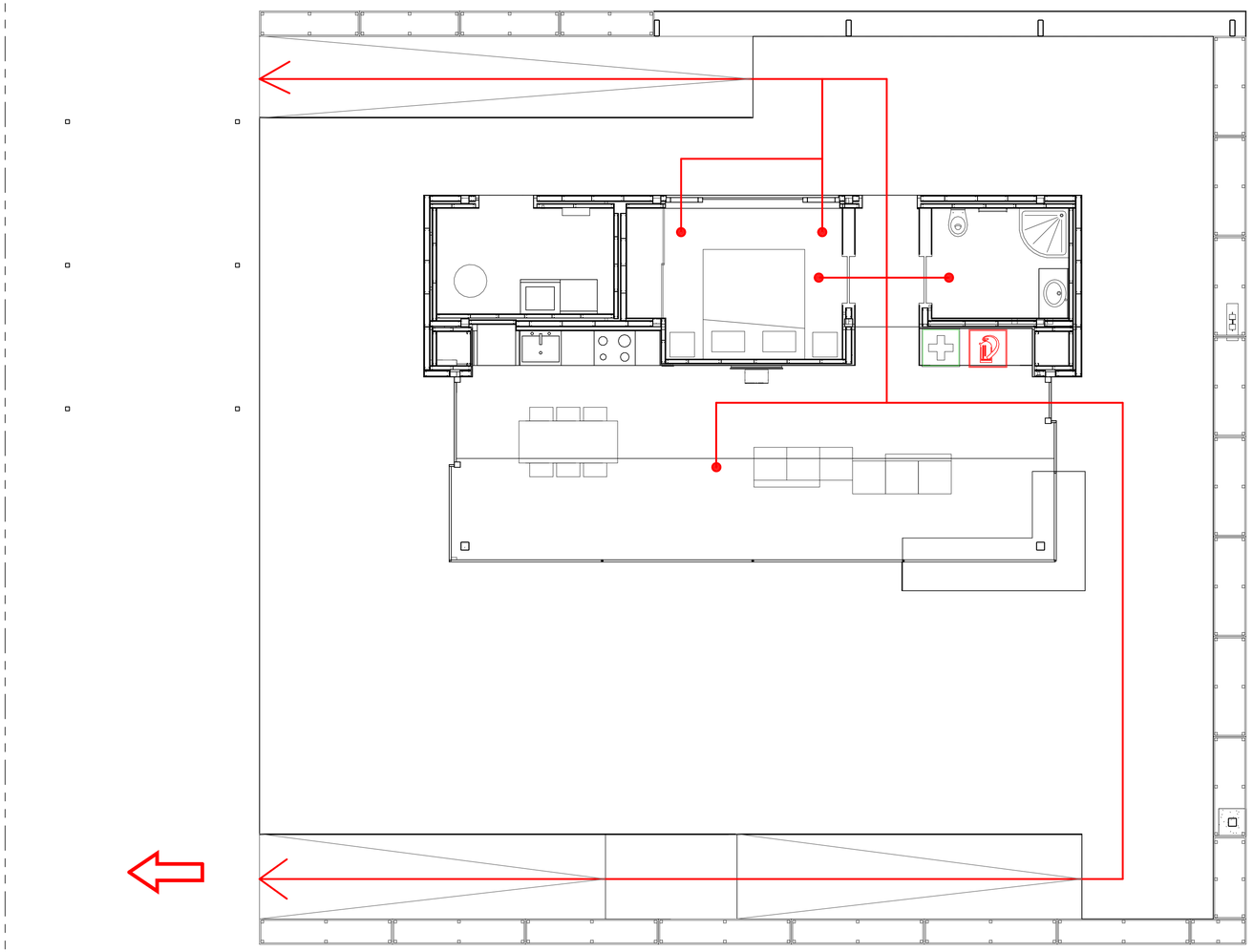

Emergency Exit

First Aid Kit

Dry Chemical Fire Extinguisher

Assembly Point

A1 EGRESS PLAN
1/4" = 1'-0"

0 2' 4' 8'

8/17/2015 6:44:32 PM

stile

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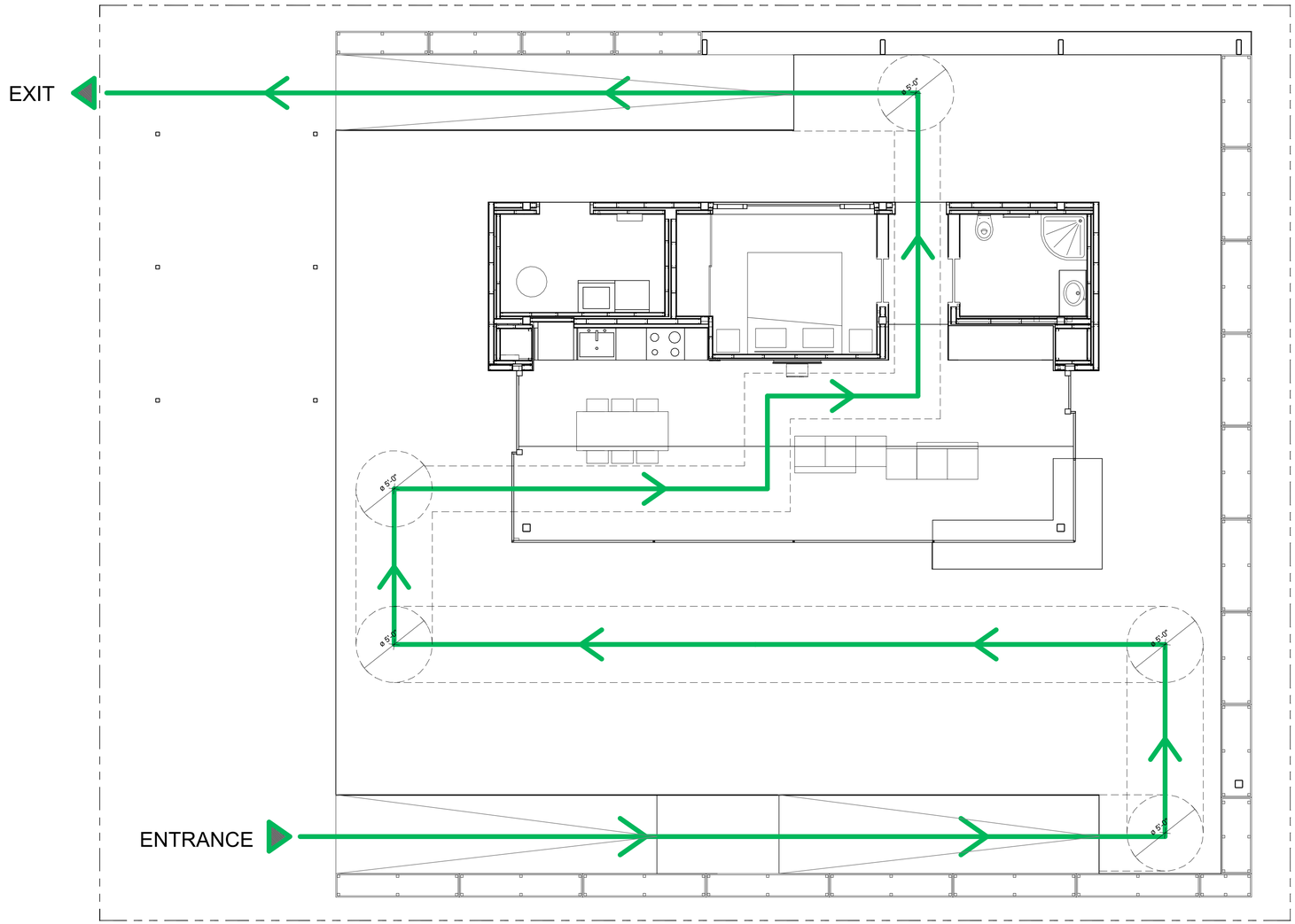
EGRESS PLAN

G-102



A1 TOUR ROUTE
1/4" = 1'-0"

0 2' 4' 8'

8/17/2015 6:44:35 PM

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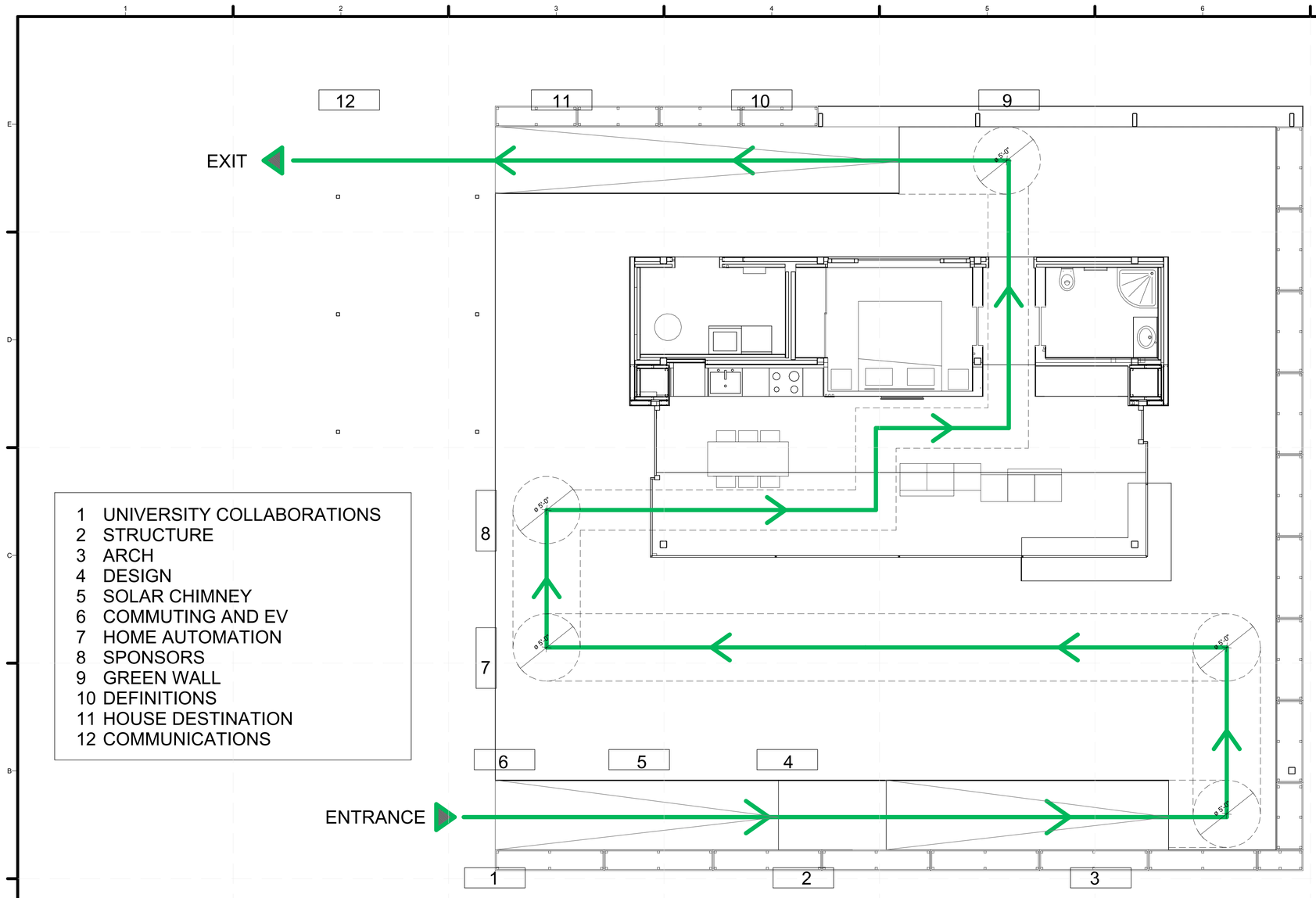
SHEET TITLE

ADA TOUR ROUTE COMPLIANCE PLAN

G-103



1 UNIVERSITY COLLABORATIONS
2 STRUCTURE
3 ARCH
4 DESIGN
5 SOLAR CHIMNEY
6 COMMUTING AND EV
7 HOME AUTOMATION
8 SPONSORS
9 GREEN WALL
10 DEFINITIONS
11 HOUSE DESTINATION
12 COMMUNICATIONS

A1 SIGN PLACEMENT
1/4" = 1'-0"

8/17/2015 6:44:37 PM

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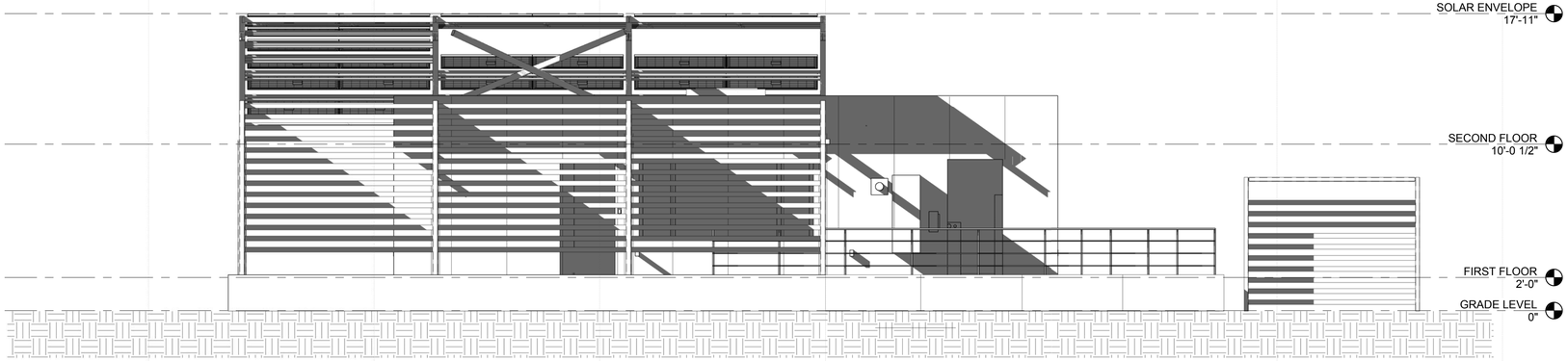
SIGN PLACEMENT PLAN

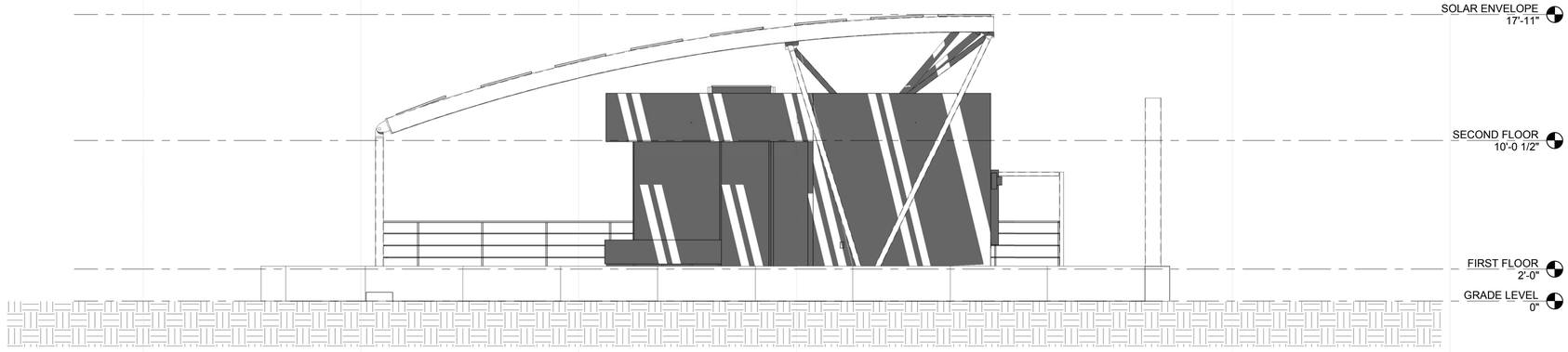
G-104



C1 SHADED NORTH ELEVATION - 8 AM

1/4" = 1'-0"

0 2' 4' 8'



A1 SHADED EAST ELEVATION - 10 AM

1/4" = 1'-0"

0 2' 4' 8'

8/17/2015 6:44:43 PM

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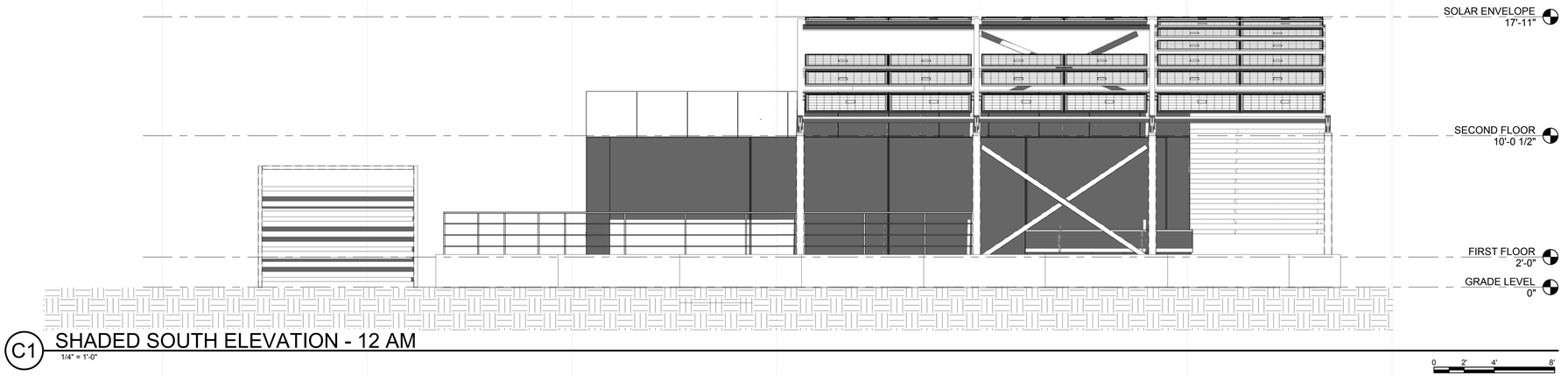
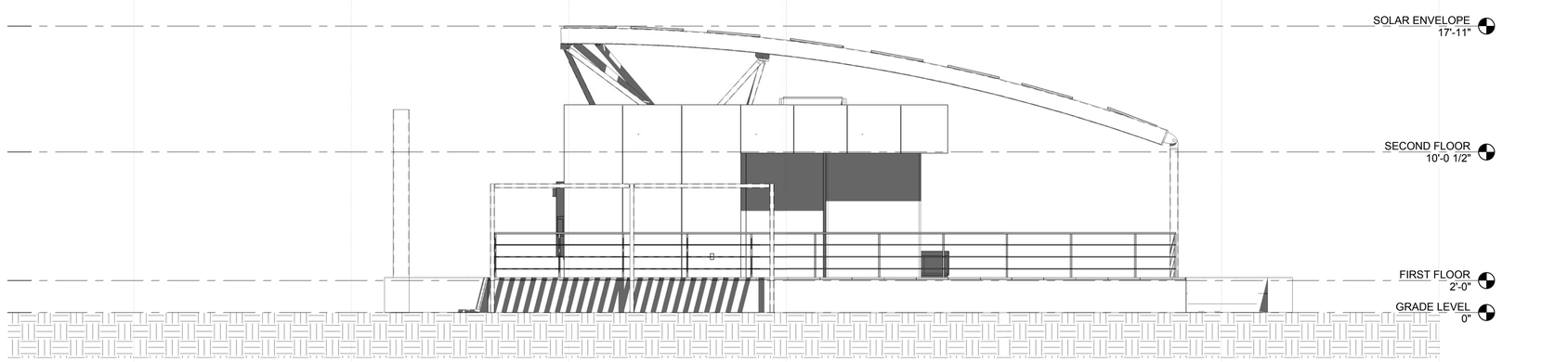
SOLAR ENVELOPE COMPLIANCE ELEVATIONS

G-201



C1 SHADED SOUTH ELEVATION - 12 AM

1/4" = 1'-0"



A1 SHADED WEST ELEVATION - 14 PM

1/4" = 1'-0"

8/17/2015 6:44:49 PM

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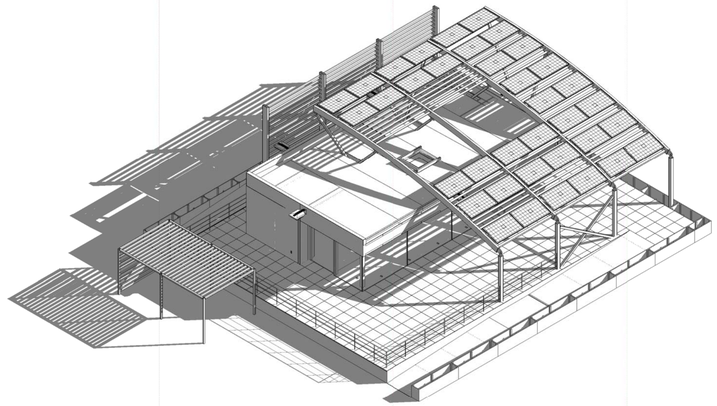
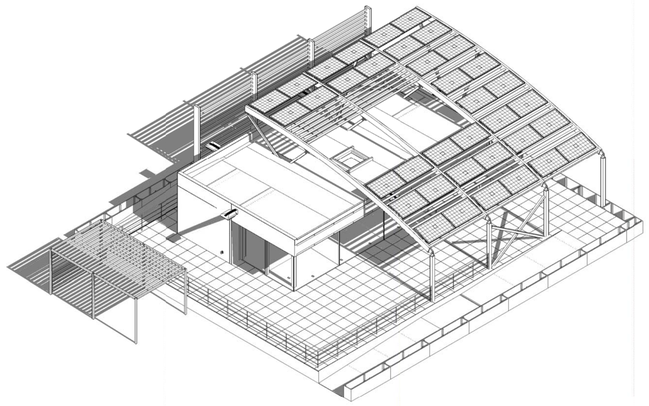
SOLAR ENVELOPE COPMLIANCE ELEVATIONS

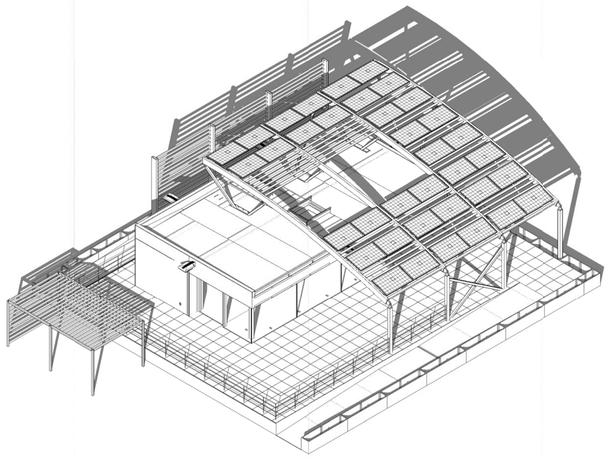
G-202



C1 SHADED PERSPECTIVE VIEW - 9 AM



C4 SHADED PERSPECTIVE VIEW - 12 PM



A3 SHADED PERSPECTIVE VIEW - 15 PM

8/17/2015 6:44:55 PM

stile

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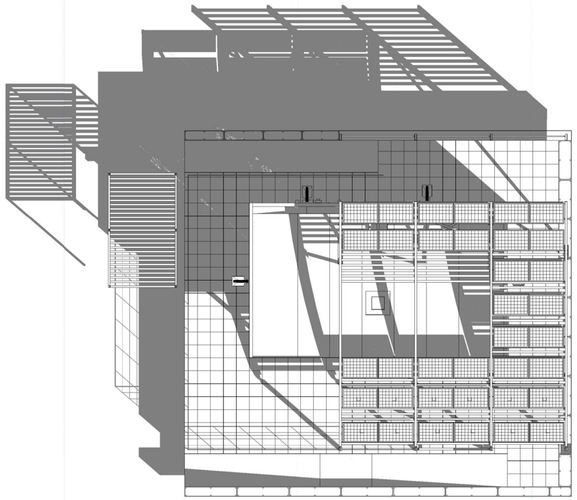
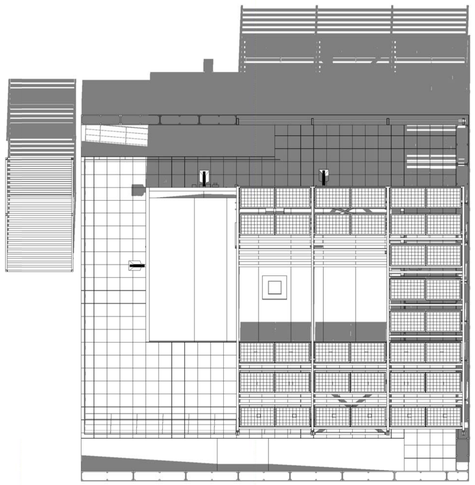
SHADING DIAGRAM A

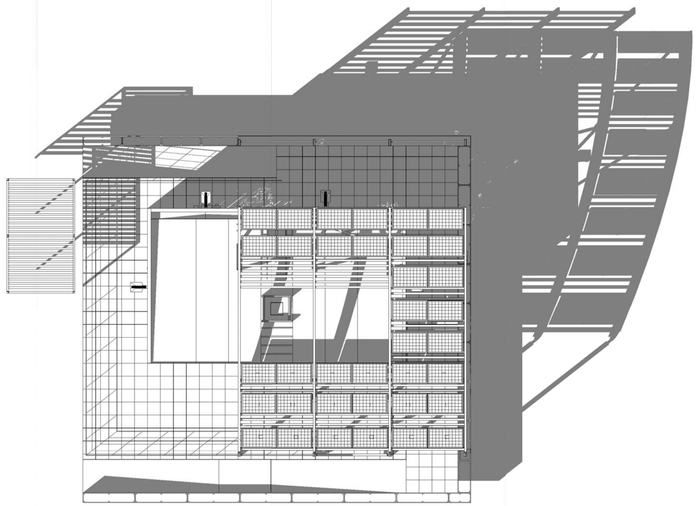
G-601



C1 SHADED PLAN VIEW - 9 AM



C5 SHADED PLAN VIEW - 12 AM



A3 SHADED PLAN VIEW - 15 PM

8/17/2015 6:45:01 PM

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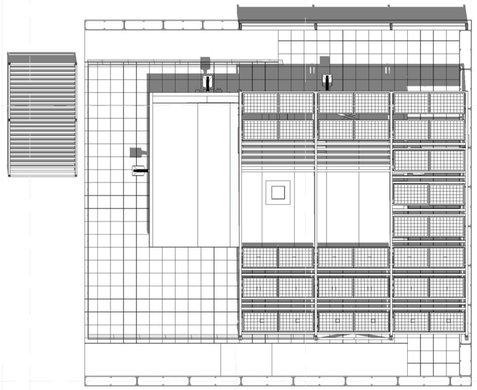
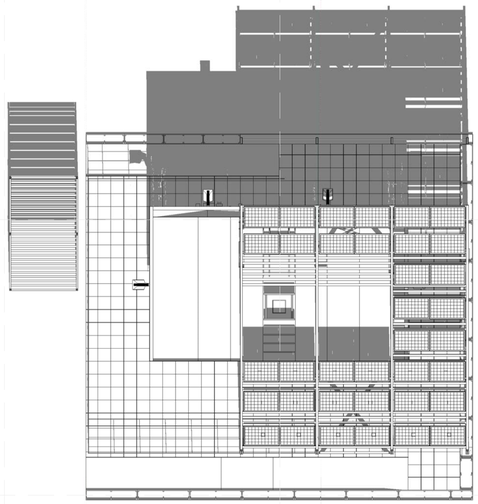
SHADING DIAGRAM B

G-602



B1 SHADED PLAN VIEW - 12 PM 21TH JUNE



B4 SHADED PLAN VIEW - 12 PM 21TH DECEMBER

8/17/2015 6:45:05 PM

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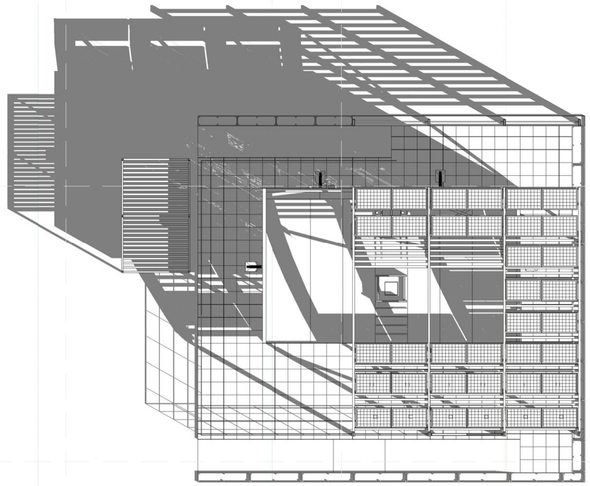
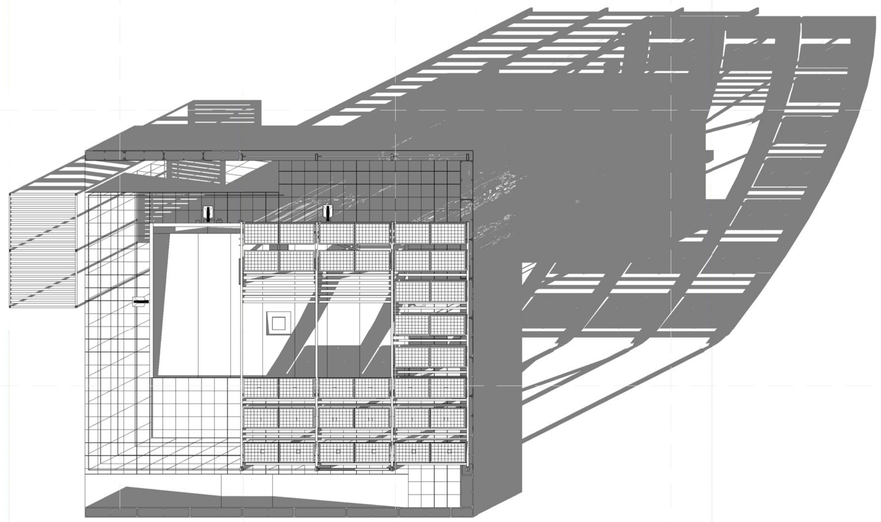
SHADING DIAGRAM C

G-603



C2 SHADED PLAN VIEW - 08 PM 20th OCTOBER

C4 SHADED PLAN VIEW - 12 AM 20th OCTOBER



A3 SHADED PLAN VIEW - 16 PM 20th OCTOBER

8/17/2015 6:45:11 PM

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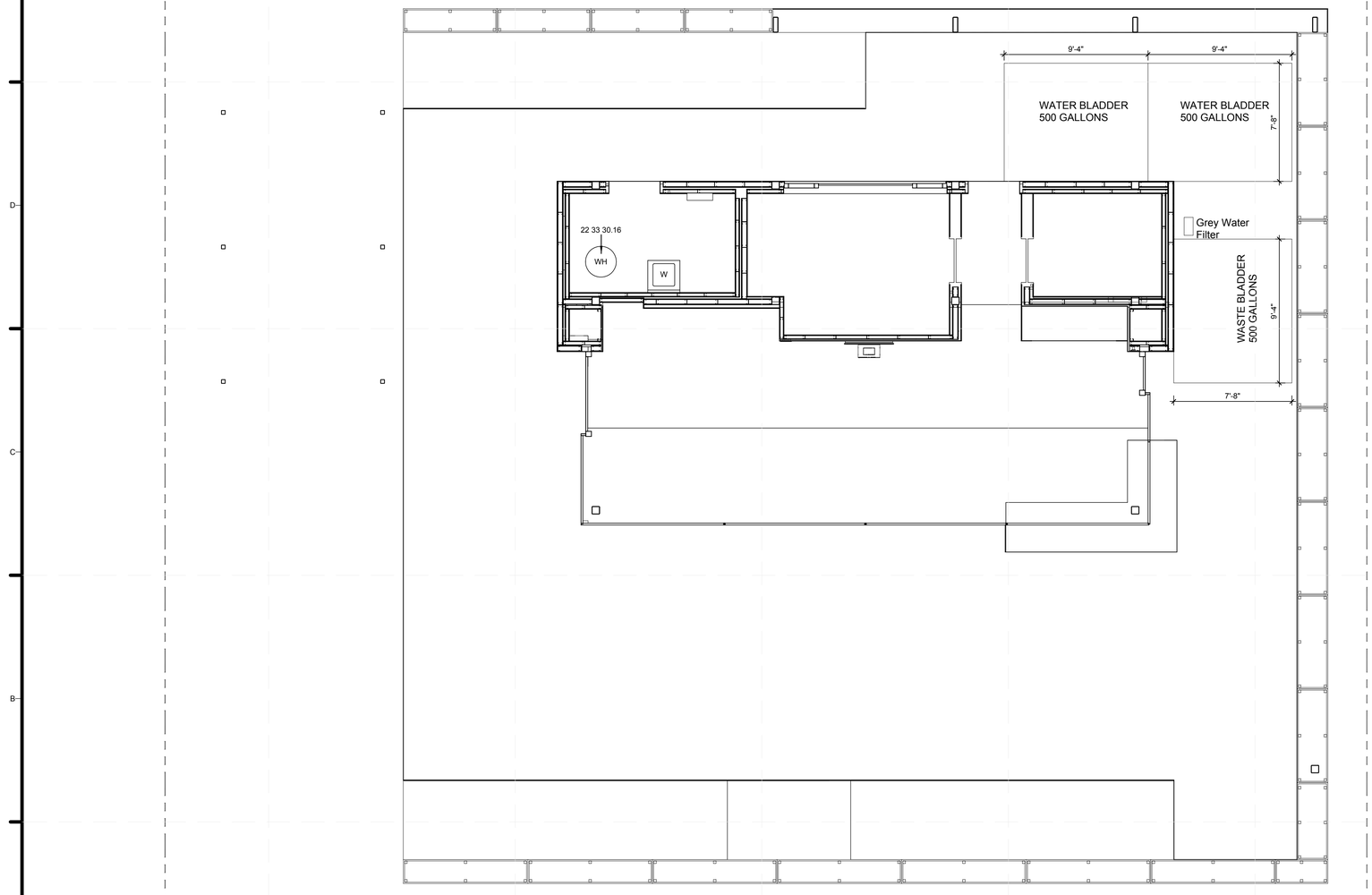
SHADING DIAGRAM D

G-604



A1 LIQUID LOCATION
1/4" = 1'-0"

GENERAL SHEET NOTES

1) ALL PRESSURIZED WATER SYSTEMS SHALL HAVE PROPER CONTAINMENT AND SHALL BE EQUIPPED WITH AN OVERFLOW PAN OR VALVE AND DRAIN BELOW UNIT
2) FOR A SCHEDULE OF LIQUID CONTAINMENT DEVICES AND FIXTURES REFER TO P-SERIES

REFERENCE KEYNOTES

22 33 30.16	RESIDENTIAL, STORAGE ELECTRIC DOMESTIC WATER HEATERS

stile

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LIQUID LOCATION AND SPILL CONTAINMENT PLAN

H-101

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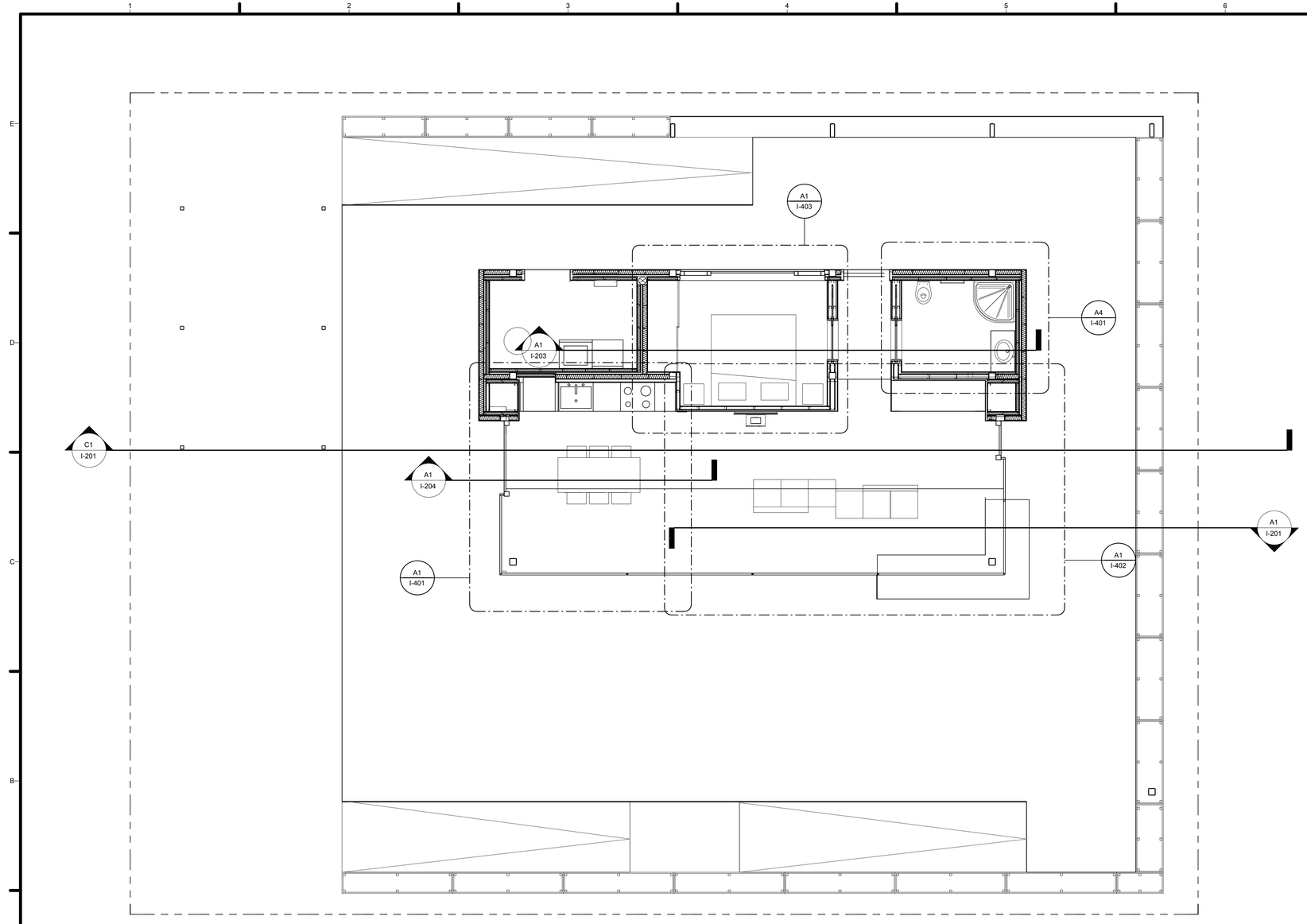

A1 INTERIOR DESIGN PLAN
1/4" = 1'-0"

0 2' 4' 8'

8/17/2015 6:45:19 PM

GENERAL SHEET NOTES

INTERIOR FINISHES PENDING. ALL FINISHES WILL COMPLY WITH R302.1, R302.2, R302.3

REFERENCE 12 DENOTES THE LOCATION OF THE MECHANICAL/SERVER ROOM

REFERENCE KEYNOTES

SHEET KEYNOTES

stile

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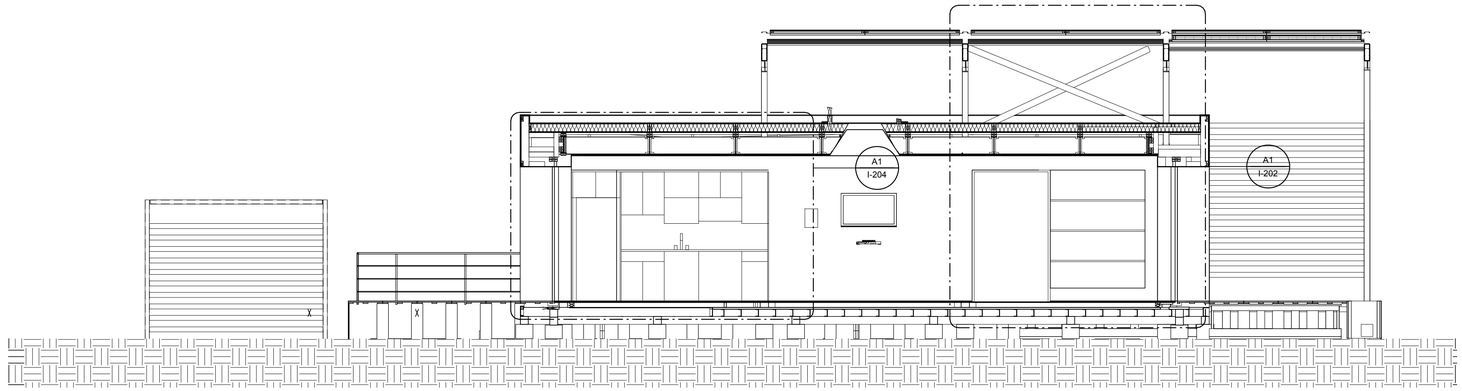
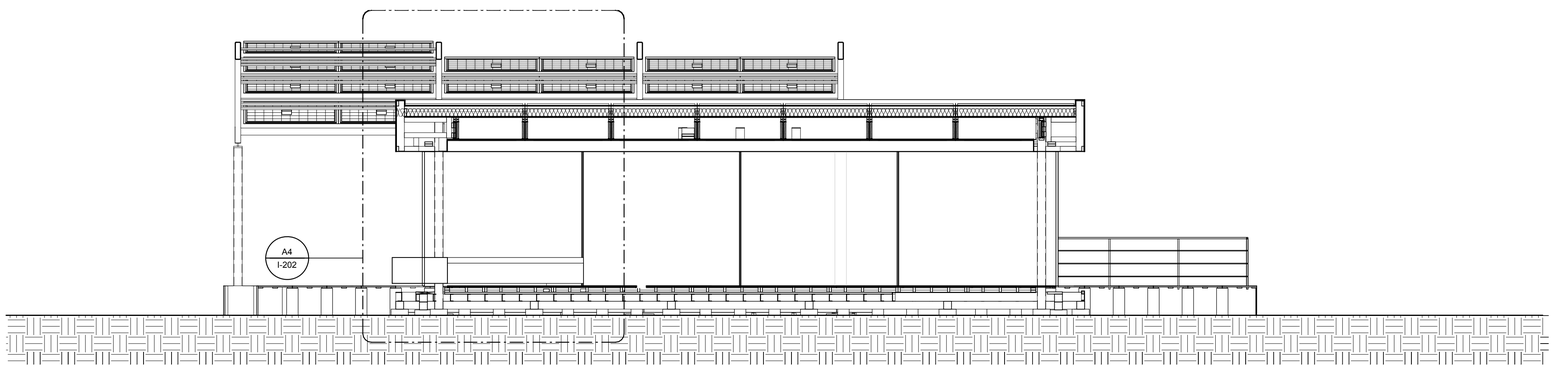
INTERIOR DESIGN PLAN

I-101



C1 INTERIOR ELEVATION 01
1/4" = 1'-0"

0 2' 4' 8'



A1 INTERIOR ELEVATION 02
1/4" = 1'-0"

0 2' 4' 8'

8/17/2015 6:45:23 PM

stile

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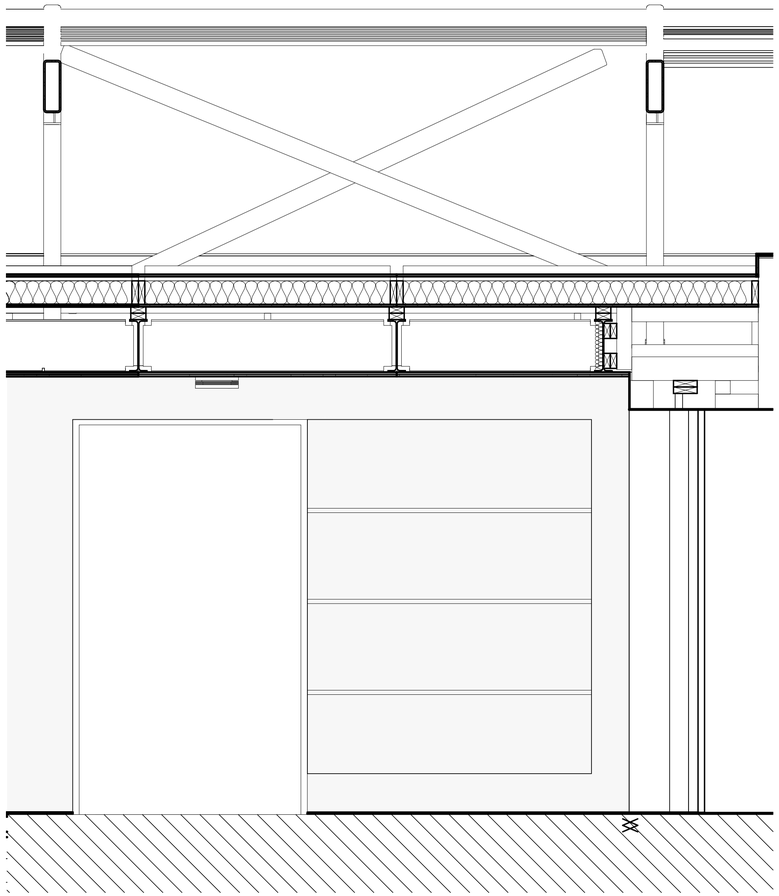
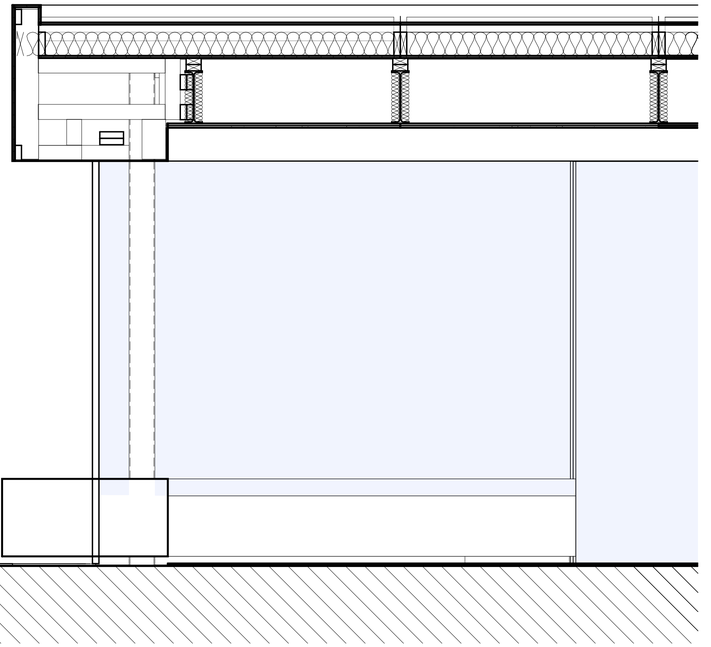
INTERIOR DESIGN ELEVATIONS

I-201



A1 LIVING ROOM ELEVATION 02
3/4" = 1'-0"



A4 LIVING ROOM ELEVATION 01
3/4" = 1'-0"

8/17/2015 6:45:25 PM

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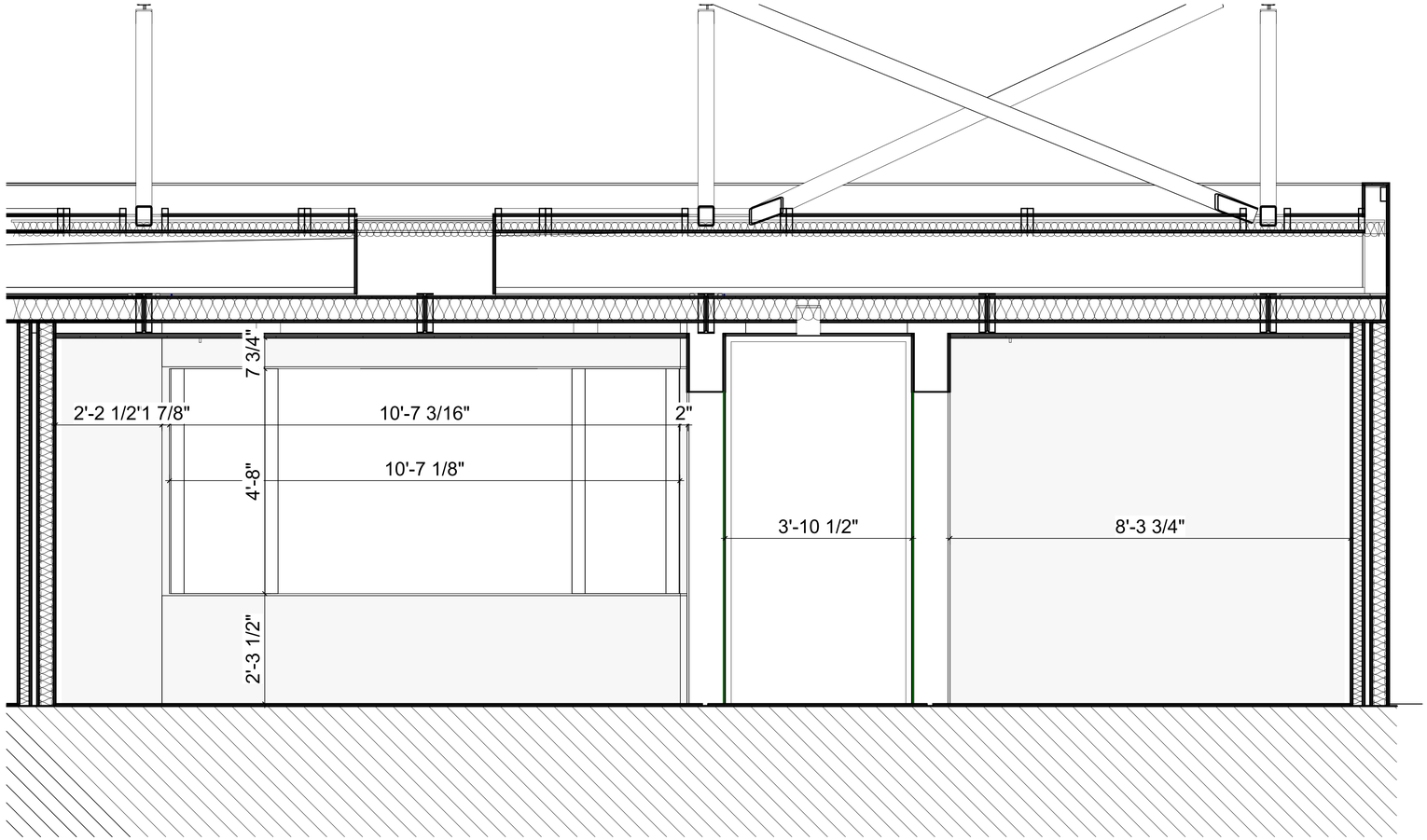
INTERIOR DESIGN ELEVATIONS

I-202



A1 BEDROOM-BATHROOM ELEVATION

3/4" = 1'-0"

8/17/2015 6:45:27 PM

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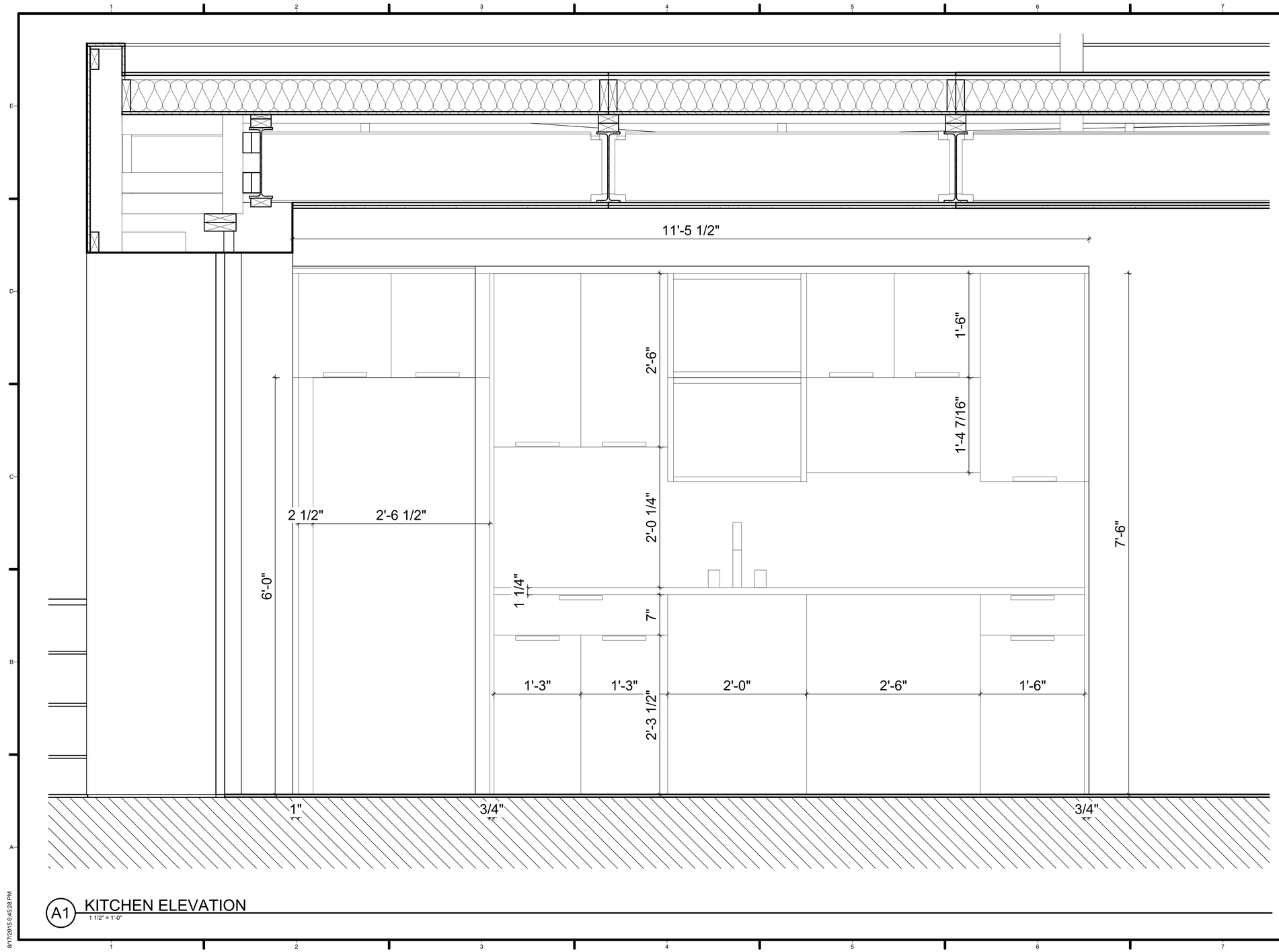
INTERIOR DESIGN ELEVATIONS

I-203



A1 KITCHEN ELEVATION

1 1/2" = 1'-0"

8/17/2015 6:45:28 PM

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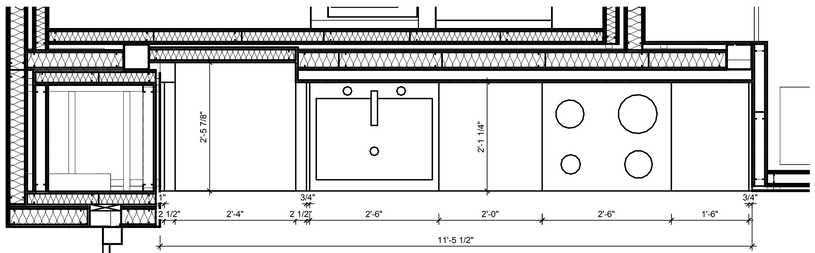
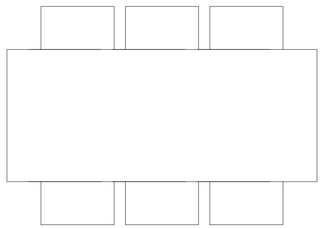
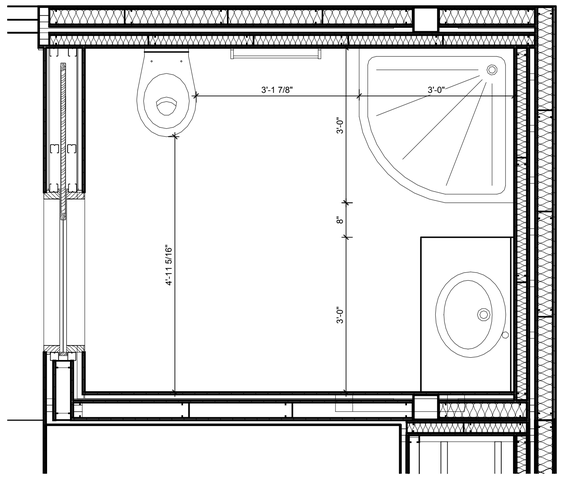
INTERIOR DESIGN ELEVATIONS

I-204







A1 KITCHEN PLAN
3/4" = 1'-0"

0 1' 2' 3'

A4 BATHROOM PLAN
3/4" = 1'-0"

0 1' 2' 3'

REFERENCE KEYNOTES

SHEET KEYNOTES

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LARGE-SCALE INTERIOR DESIGN PLANS

I-401

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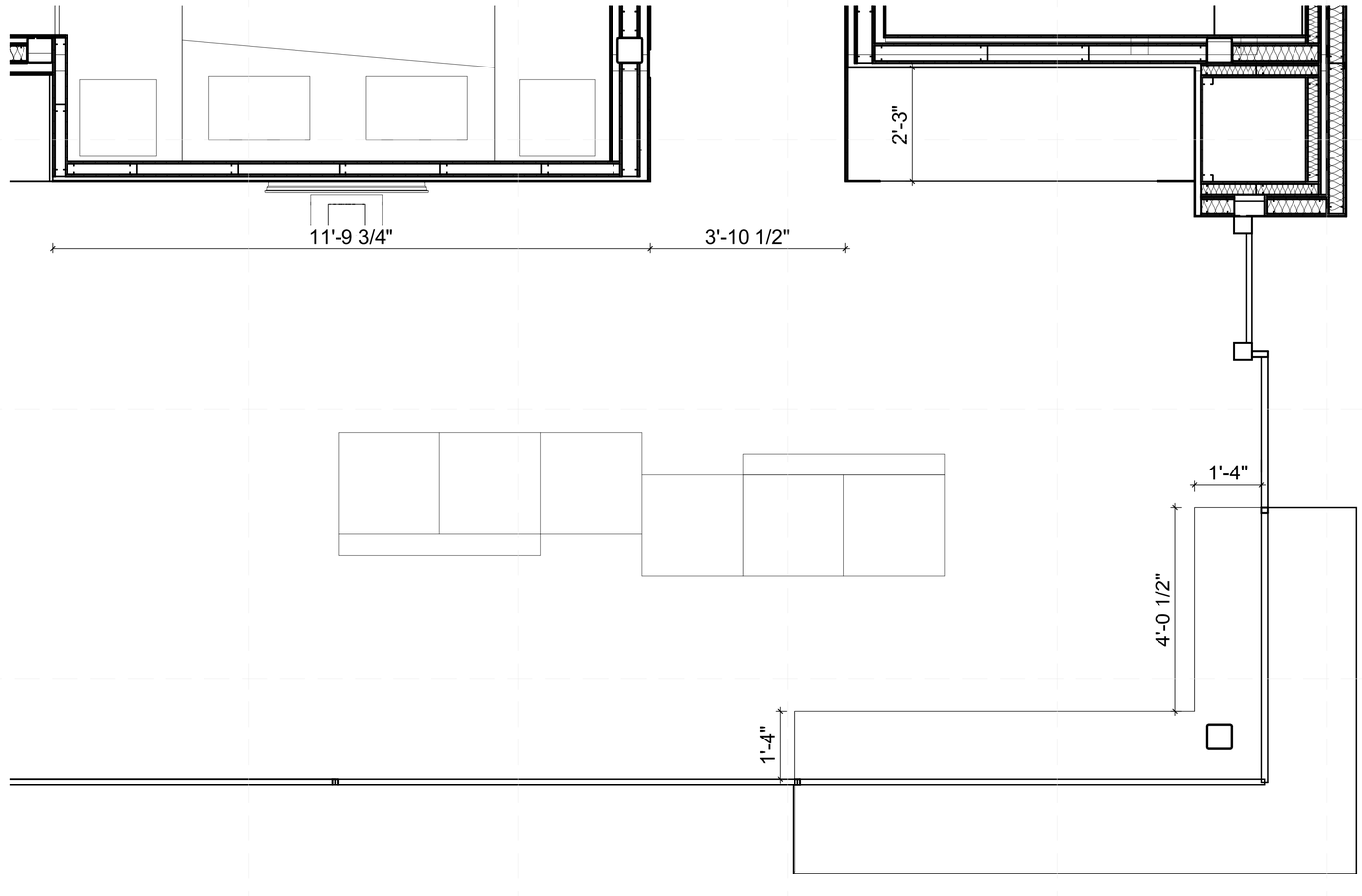

A1 LIVING ROOM PLAN
3/4" = 1'-0"

0 1' 2' 3'

8/17/2015 6:45:31 PM

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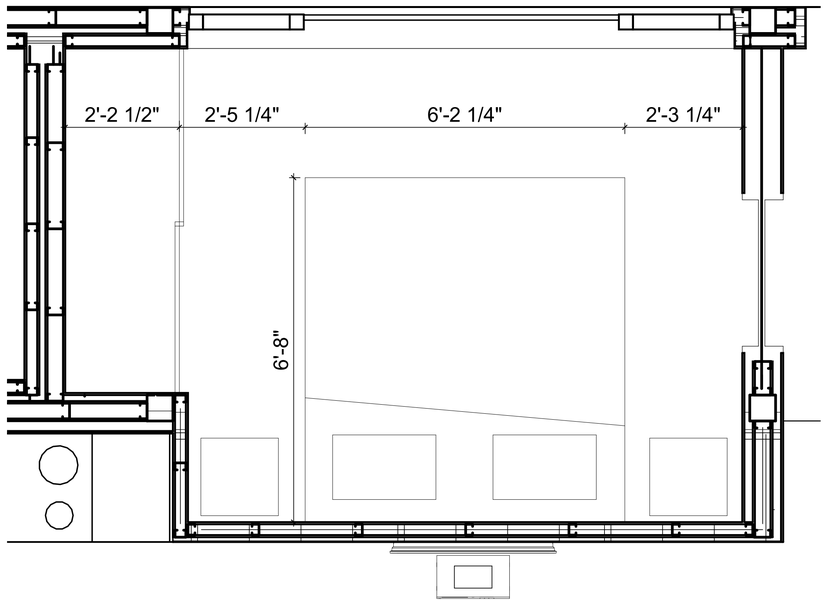
LARGE-SCALE INTERIOR DESIGN PLANS

I-402



A1 BEDROOM PLAN
3/4" = 1'-0"

8/17/2015 6:45:32 PM

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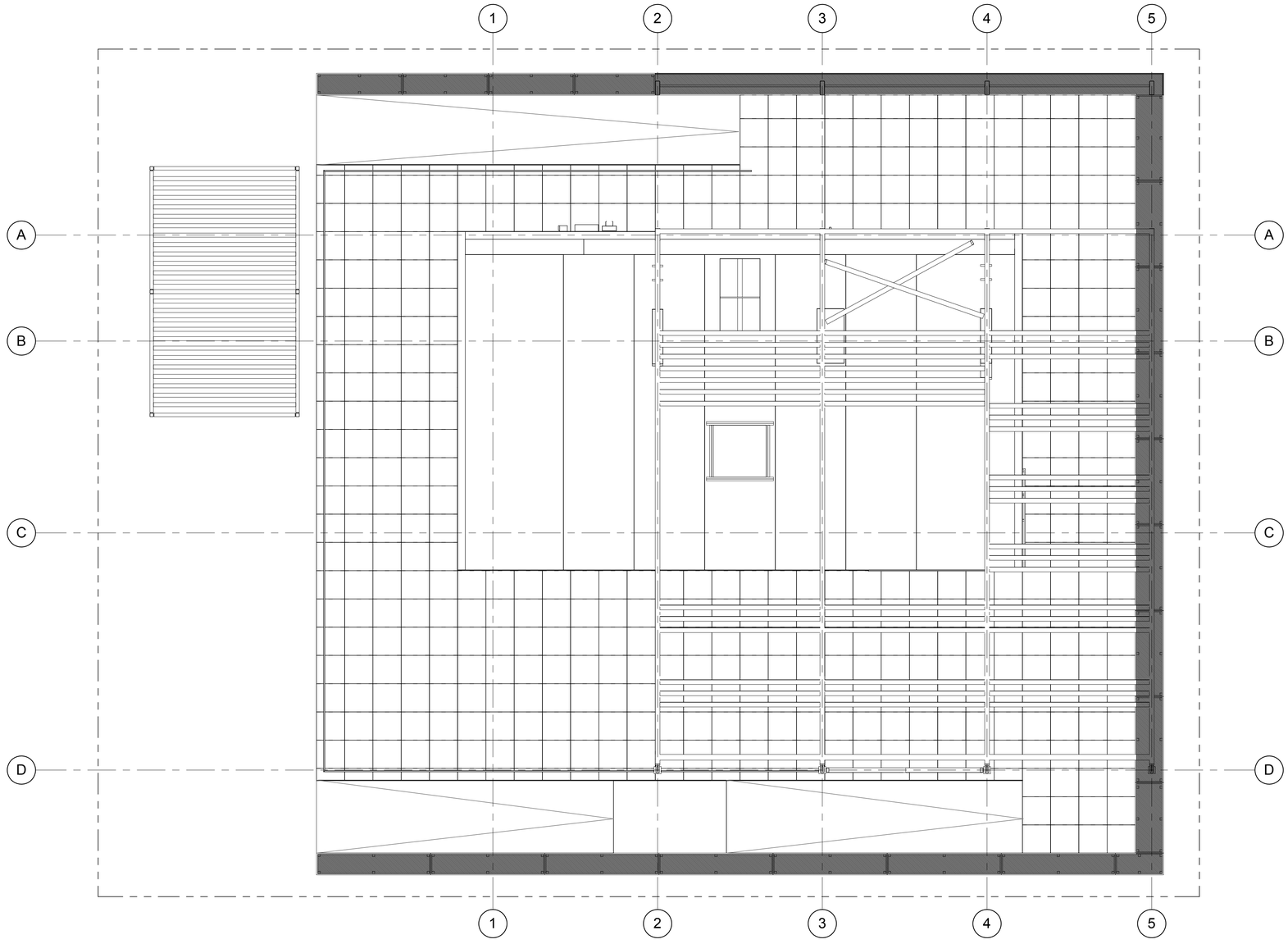
SHEET TITLE

LARGE-SCALE INTERIOR DESIGN PLANS

I-403



A1 LANSCAPE SITE PLAN
1/4" = 1'-0"

0 2' 4' 8'

8/17/2015 6:45:36 PM

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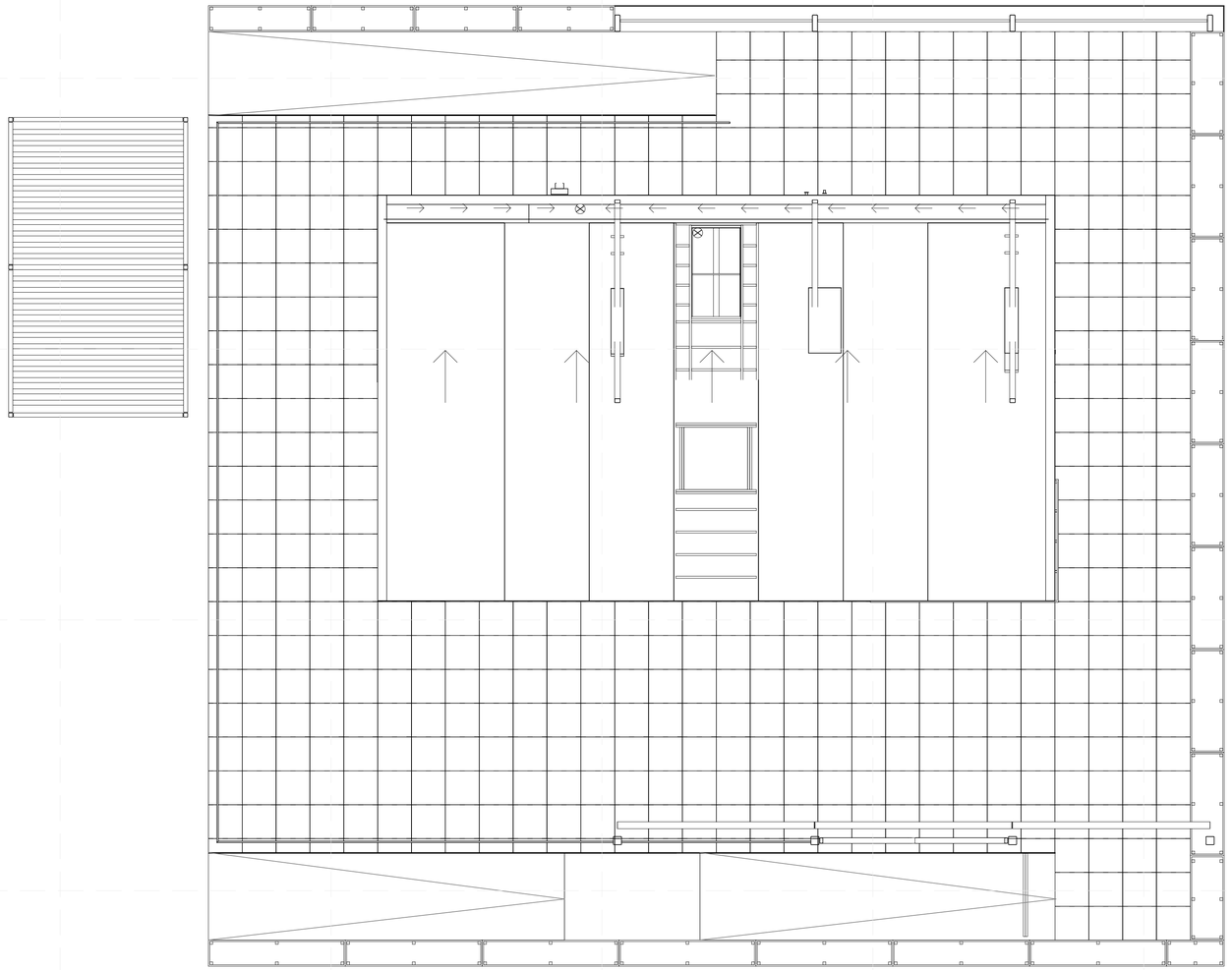
SHEET TITLE

LANDSCAPE AND PLANTING SITE PLAN

L-101



A1 LANDSCAPE SLOPE ROOF PLAN
1/4" = 1'-0"

0 2' 4' 8'

8/17/2015 6:45:38 PM

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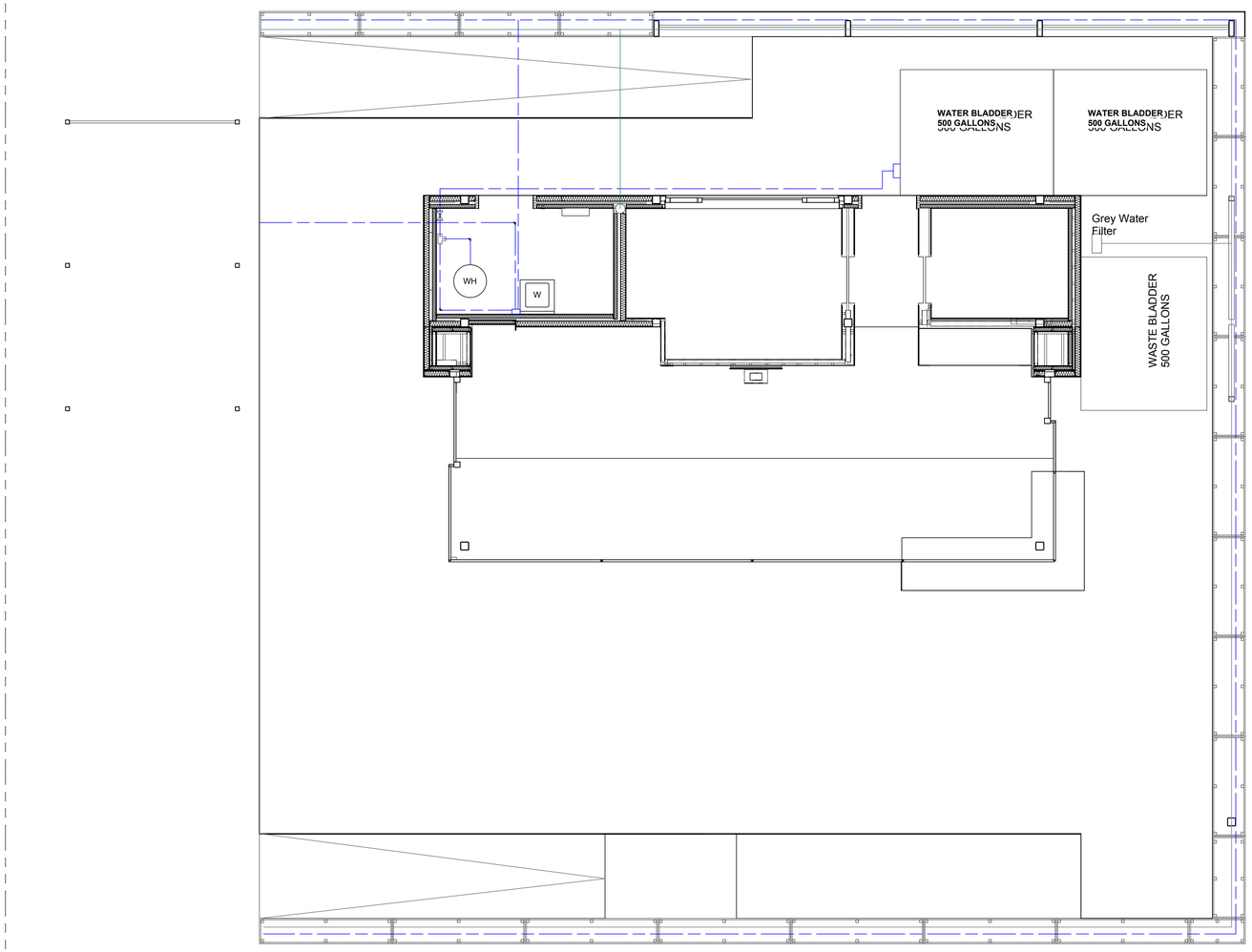
SHEET TITLE

LANDSCAPE SLOPE ROOF PLAN

L-102



A1 RAINWATER IRRIGATION PLAN DISTRIBUTION

1/4" = 1'-0"

0 2' 4' 8'

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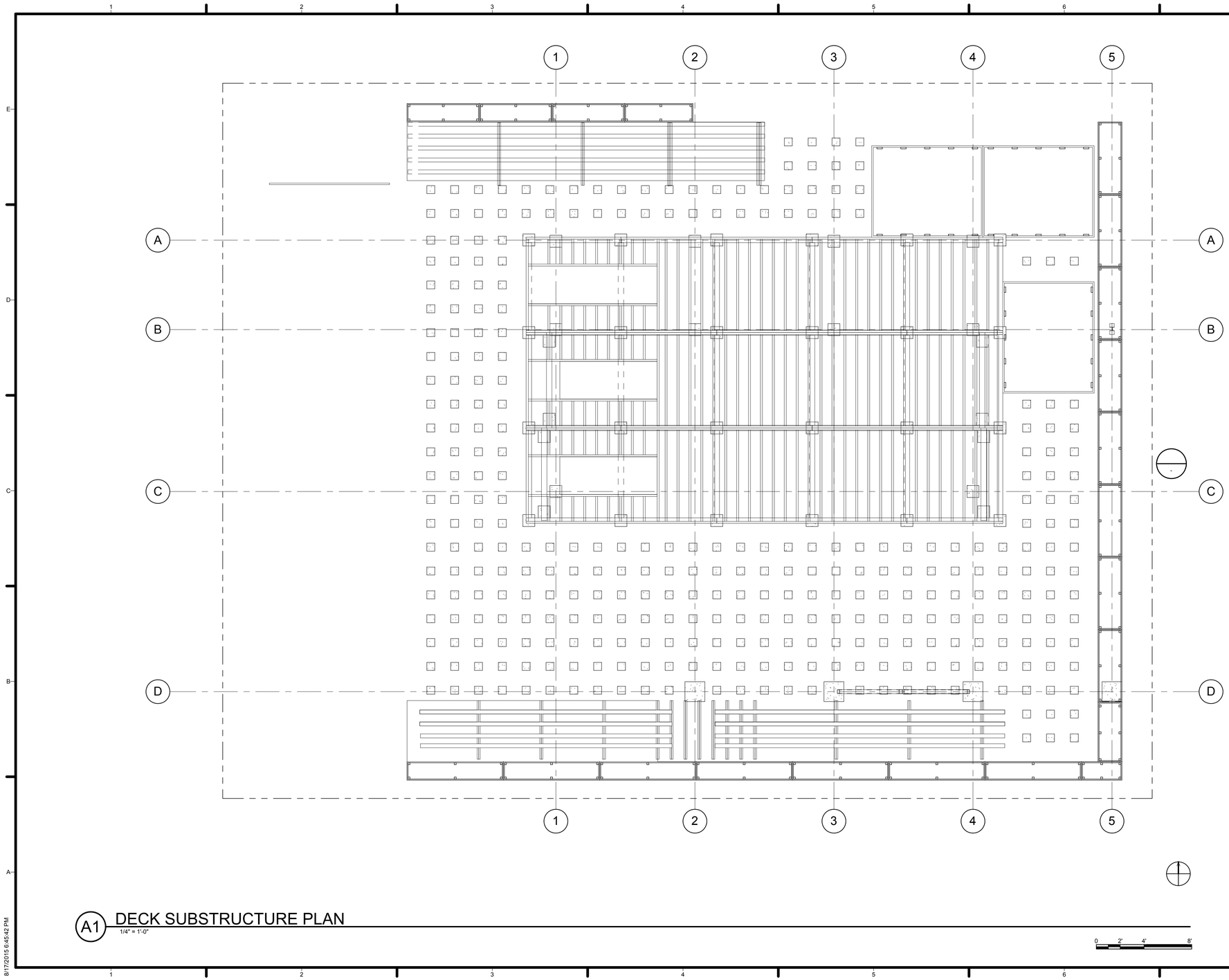
SHEET TITLE

LANDSCAPE IRRIGATION AND GREYWATER PLAN

L-103



A1 DECK SUBSTRUCTURE PLAN
1/4" = 1'-0"

0 2' 4' 8'

8/17/2015 9:45:42 PM

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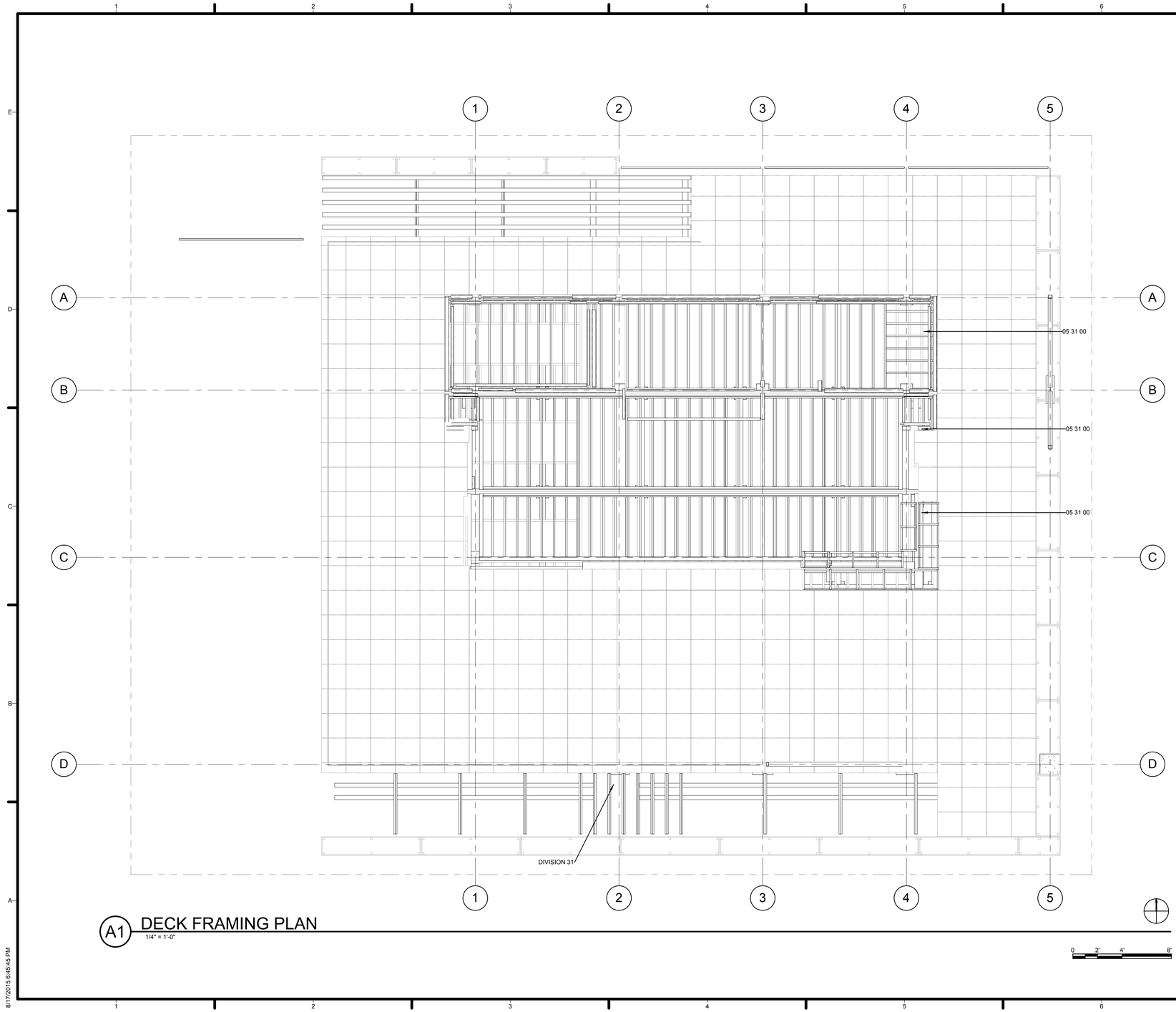
SHEET TITLE

DECK SUBSTRUCTURE PLAN

L-105



A1 DECK FRAMING PLAN
1/4" = 1'-0"

0 2' 4' 8'

8/17/2015 6:45:45 PM

REFERENCE KEYNOTES

05 31 00	STEEL DECKING
DIVISION 31	EARTHWORK

05 DENOTES DIVISION 5, METALS

31 DENOTES SUBSECTION STEEL DECKING

00 DENTOES SUBCATEGORY GENERAL

DIVISION 31, EARTHWORK

GENERAL SHEET NOTES

1.STEEL DECKING, 05 31 00, REFERENCES THE SUBFLOOR MADE OUT OF STEEL SHIPPING CONTAINERS.

2.THE DECK SHOWN IS CONSISTENTLY 06 11 00.F2. IT IS A SERIES OF 2X6 CONSTRUCTED PLATOFORMS RESTING ON A SUBSTRUCTURE OF 6X6 WOODEN BEAMS.

3.DIVISION 31 REFERS TO THE SCREW JACKS THAT WILL BE USED TO LEVEL THE HOUSE

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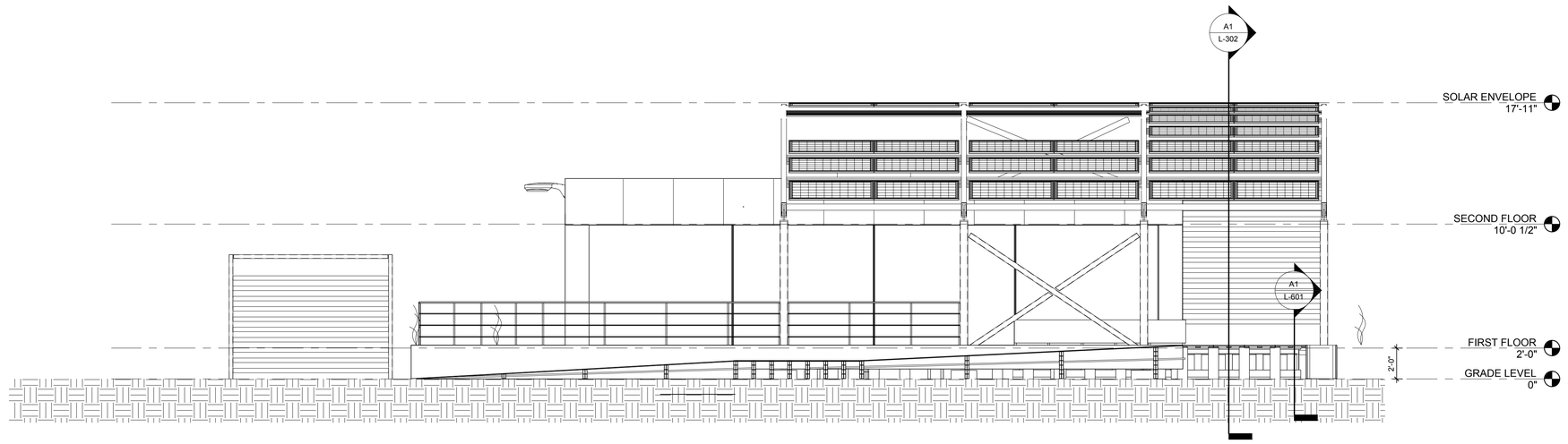
SHEET TITLE

DECK FRAMING PLAN

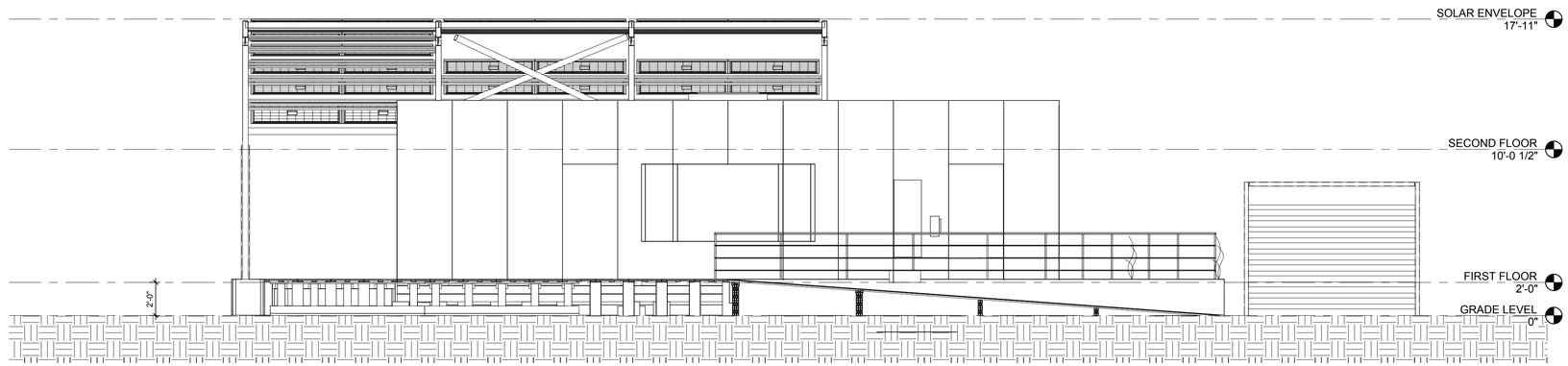
L-106



C1 SECTION RAMP 01

1/4" = 1'-0"

0 2' 4' 8'



A1 SECTION RAMP 02

1/4" = 1'-0"

0 2' 4' 8'

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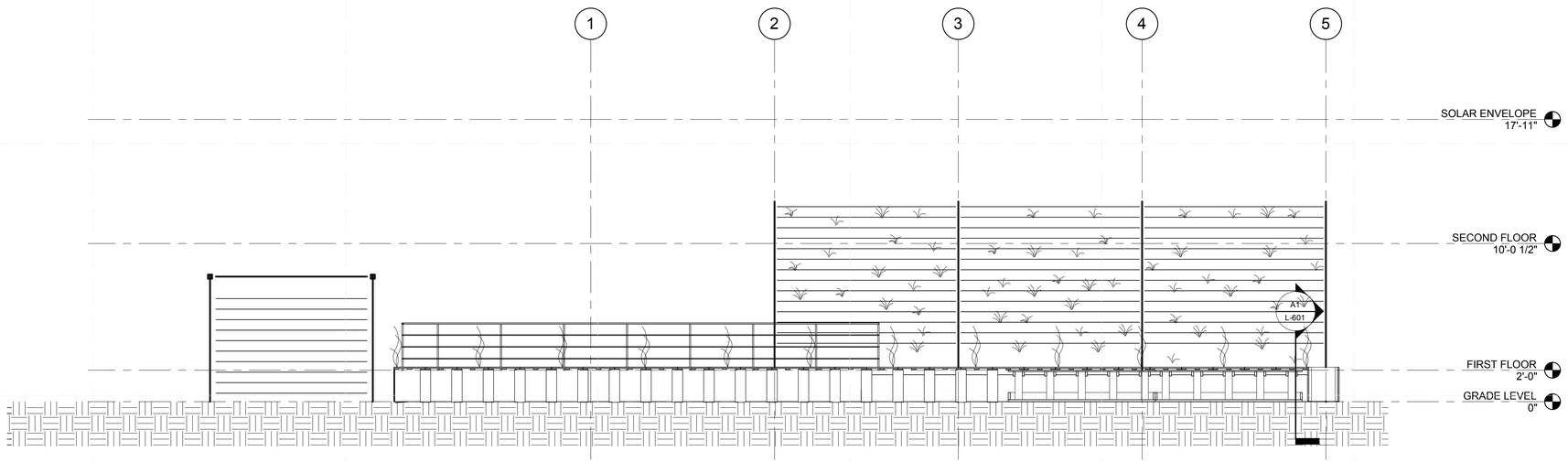
SHEET TITLE

SECTION RAMP

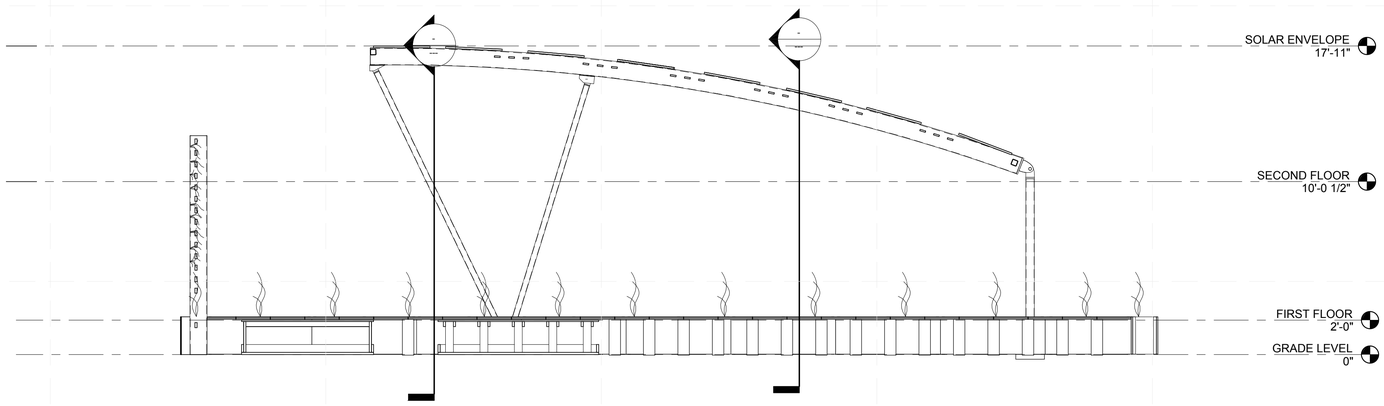
L-301



C1 SECTION DECK 01

1/4" = 1'-0"

0 2' 4' 8'



A1 SECTION DECK 02

1/4" = 1'-0"

0 2' 4' 8'

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SHEET TITLE

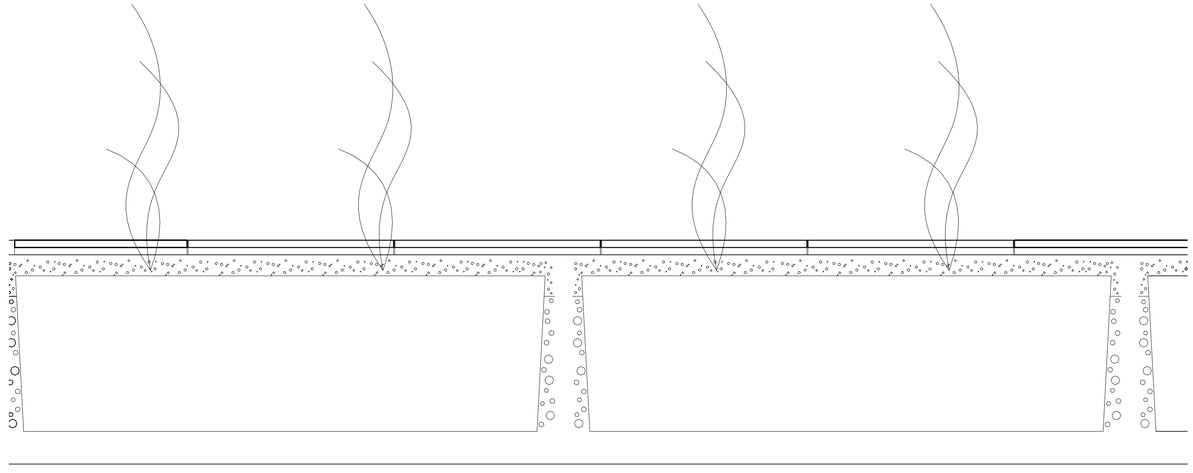
SECTION DECK

L-302

C1 PLANTING BED DETAIL1

1 1/2" = 1'-0"

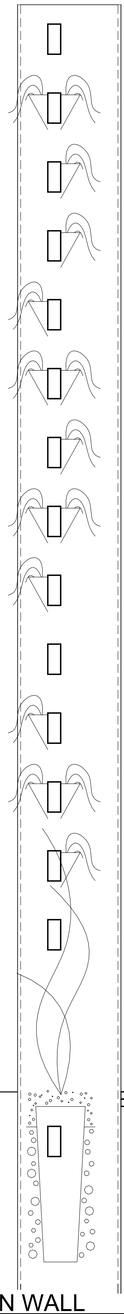
0 1/2" 1' 1 1/2"



A1 PLANTING BED DETAIL 2

1 1/2" = 1'-0"

0 1/2" 1' 1 1/2"



A6 GREEN WALL

1 1/2" = 1'-0"

0 1/2" 1' 1 1/2"

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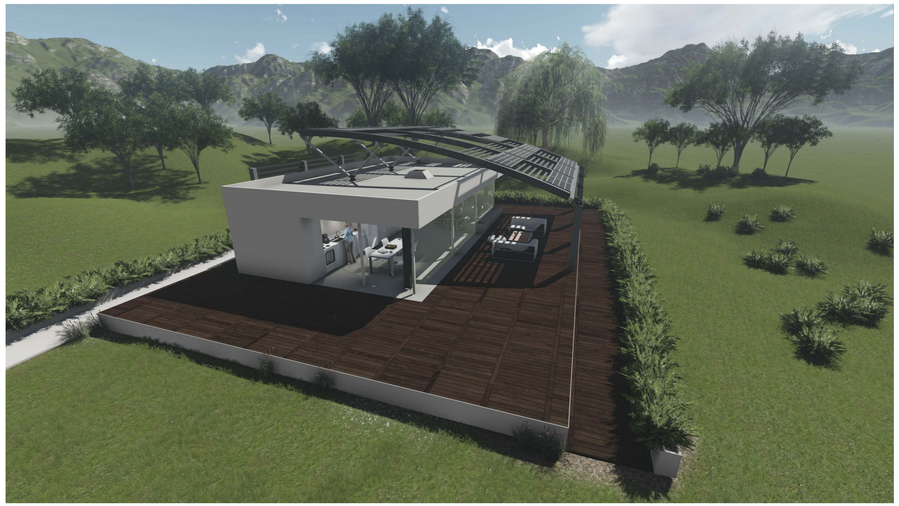
PLANTING DETAILS

L-601



C1 SOUTH-WEST VIEW

C4 SOUTH-EAST VIEW

A1 SOUTH-WEST VIEW

A4 SOUTH-EAST VIEW

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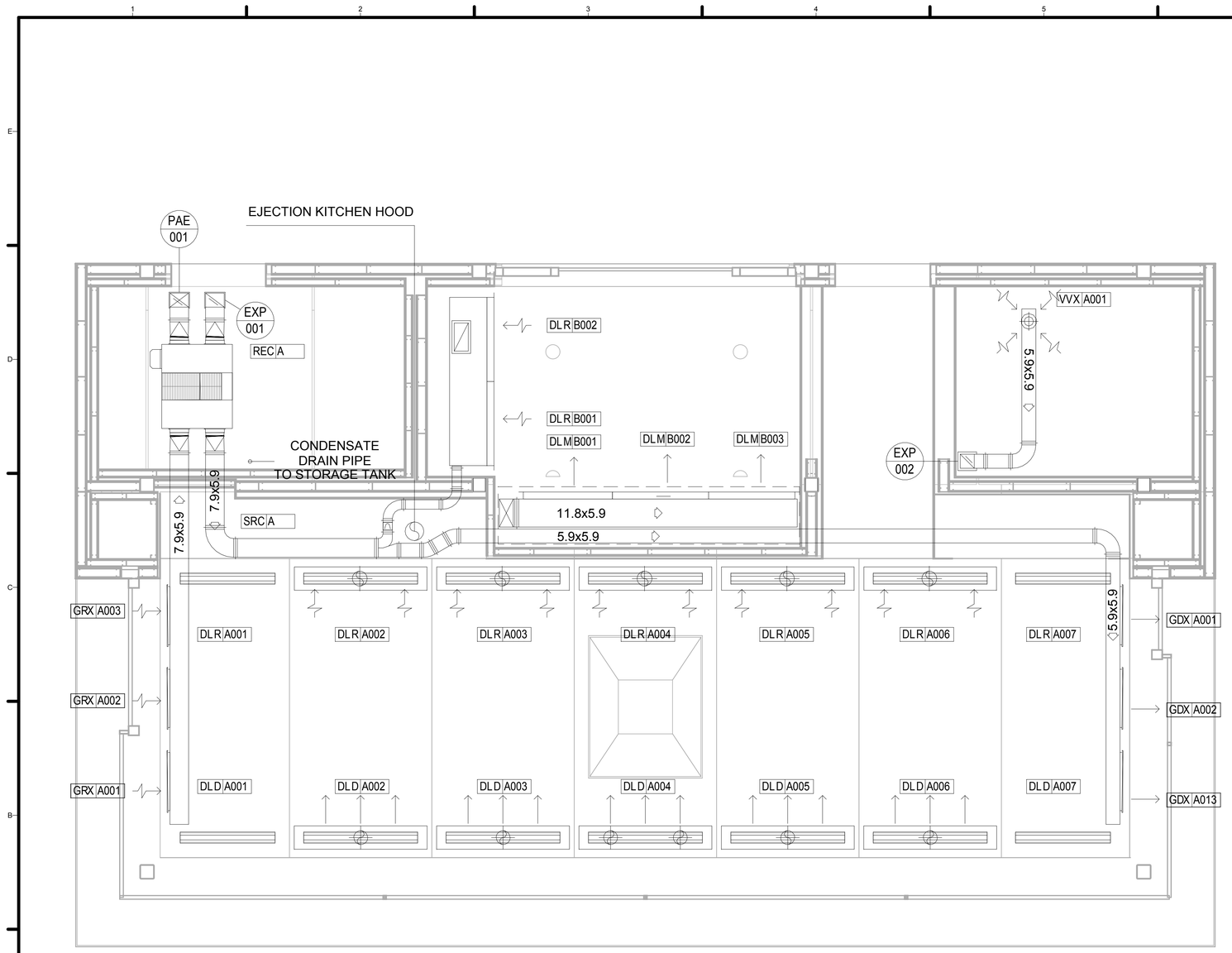
LANDSCAPE RENDERINGS

L-901



A1 FIRST FLOOR PLAN HVAC

1/2" = 1'-0"

0 1' 2' 4'

8/17/2015 6:45:57 PM

GENERAL SHEET NOTES

UES X00X	OUTDOOR UNIT 38GJQF36 3	
COOLING RATED CAPACITY:	34000	Btu/h
HEATING RATED CAPACITY:	42500	Btu/h
DIMENSIONS (WxHxD):	42.8 x 43.4 x 17.3	In.
WEIGHT:	198.4	Lbs.
UI C X00X	INDOOR UNIT 40GJDQ 9	
AIRFLOW (LOWEST TO HIGHEST)	176/235/323	CFM
DIMENSIONS (WxHxD):	24.2 X 7.9 X 27.6	In.
WEIGHT:	50.7	Lbs.
REC X00X	HEAT RECOVERY VENTILATOR HRVXXLHB1250	
AIRFLOW:	250	ft³/min
DIMENSIONS (WxHxD):	16.5 X 30.25 X 17.25	In.
SRC	MANUAL AIR FLOW REGULATOR	
VAC	CENTRIFUGAL ASSIAL VENTILATOR	
LG	PIPE(GAS)	
LL	PIPE(LIQUID)	
SCX	PIPE(SUCTION)	
DL X X00X	SLIT LINEAR DIFFUSER FOR DELIVERING AIR D RETURNING AIR WITH SLIDING DAMPER	
DL X A00X	AIRFLOW: / SLIT NUMBER: / DIMENSIONS (WxH):	29.4÷111.8 / 2 / 47.2x4.7 — ft³/min / In.
DL X B00X	AIRFLOW: / SLIT NUMBER: / DIMENSIONS (WxH):	29.4÷111.8 / 1 / 39.4x3.1 — ft³/min / In.
DL X C00X	AIRFLOW: / SLIT NUMBER: / DIMENSIONS (WxH):	29.4÷70.6 / 1 / 23.6x3.1 — ft³/min / In.
GXX X00X	GRID FOR DELIVERING AND RETURNING AMBIENT AIR	
GRX A / GDX A	AIRFLOW: / DIMENSIONS:	29.4÷88.3 / 27.6x3.9 — ft³/min / In.
VVX A	STEEL INTAKE VALVE	
	AIRFLOW: / DIMENSIONS:	0÷58.9 / Ø 3.9 — ft³/min / In.
EXP	CANALIZATION TO EXPEL AIR	
PAE	CANALIZATION AMBIENT AIR INTAKE	

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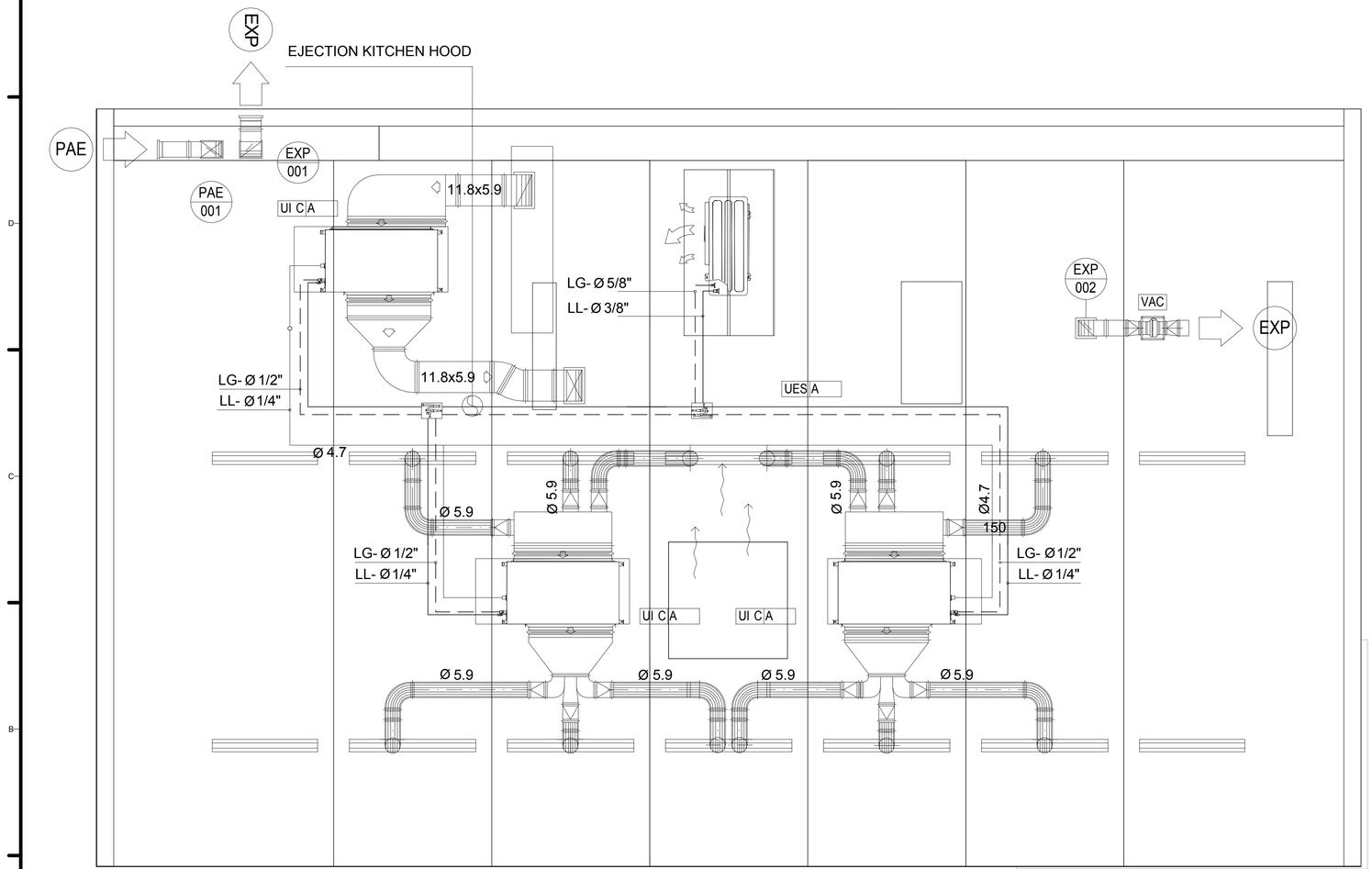
HVAC EQUIPMENT AND DISTRIBUTION PLAN

M-101



A1 ROOF PLAN HVAC

1/2" = 1'-0"

0 1' 2' 4'

GENERAL SHEET NOTES

SIGN
UES|X00X
SIZE
OUTDOOR UNIT 38GJQF36 3

COOLING RATED CAPACITY:	34000	Btu/h
HEATING RATED CAPACITY:	42500	Btu/h
DIMENSIONS (WxHxD):	42.8 x 43.4 x 17.3	In.
WEIGHT:	198.4	Lbs.

SIGN
UI C|X00X
SIZE
INDOOR UNIT 40GJDQ 9

AIRFLOW (LOWEST TO HIGHEST):	176/235/323	CFM
DIMENSIONS (WxHxD):	24.2 X 7.9 X 27.6	In.
WEIGHT:	50.7	Lbs.

SIGN
REC|X00X
SIZE
HEAT RECOVERY VENTILATOR
HRVXXLHB1250

AIRFLOW:	250	ft³/min
DIMENSIONS (WxHxD):	16.5 X 30.25 X 17.25	In.

SRC — MANUAL AIR FLOW REGULATOR

VAC — CENTRIFUGAL ASSIAL VENTILATOR

LG — PIPE(GAS)
LL — PIPE(LIQUID)
SCX — PIPE(SUCTION)

VERTICAL VIEW HORIZONTAL VIEW
SIGN
DL X|X00X — LENGHT
D-DELIVERY
R-RETURN
SLIT LINEAR DIFFUSER FOR DELIVERING AND RETURNING AIR WITH SLIDING DAMPER

DL X|A00X

AIRFLOW:	29.4÷111.8	ft³/min
SLIT NUMBER:	2	
DIMENSIONS (WxH):	47.2x4.7	In.

DL X|B00X

AIRFLOW:	29.4÷111.8	ft³/min
SLIT NUMBER:	1	
DIMENSIONS (WxH):	39.4x3.1	In.

DL X|C00X

AIRFLOW:	29.4÷70.6	ft³/min
SLIT NUMBER:	1	
DIMENSIONS (WxH):	23.6x3.1	In.

LATERAL VIEW HORIZONTAL VIEW
SIGN
GXX X00X — SEQUENTIAL NUMBER
SIZE
GRID FOR DELIVERING AND RETURNING AMBIENT AIR

GRX|A GGX|A

AIRFLOW:	29.4÷88.3	ft³/min
DIMENSIONS:	27.6x3.9	In.

LATERAL VIEW HORIZONTAL VIEW
SIGN
VVX X00X — SEQUENTIAL NUMBER
SIZE
STEEL INTAKE VALVE

VVX|A

AIRFLOW:	0÷58.9	ft³/min
DIMENSIONS:	Ø 3.9	In.

EXP — CANALIZATION TO EXPEL AIR

PAE — CANALIZATION AMBIENT AIR INTAKE

stile

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SHEET TITLE

HVAC EQUIPMENT AND DISTRIBUTION PLAN

M-102

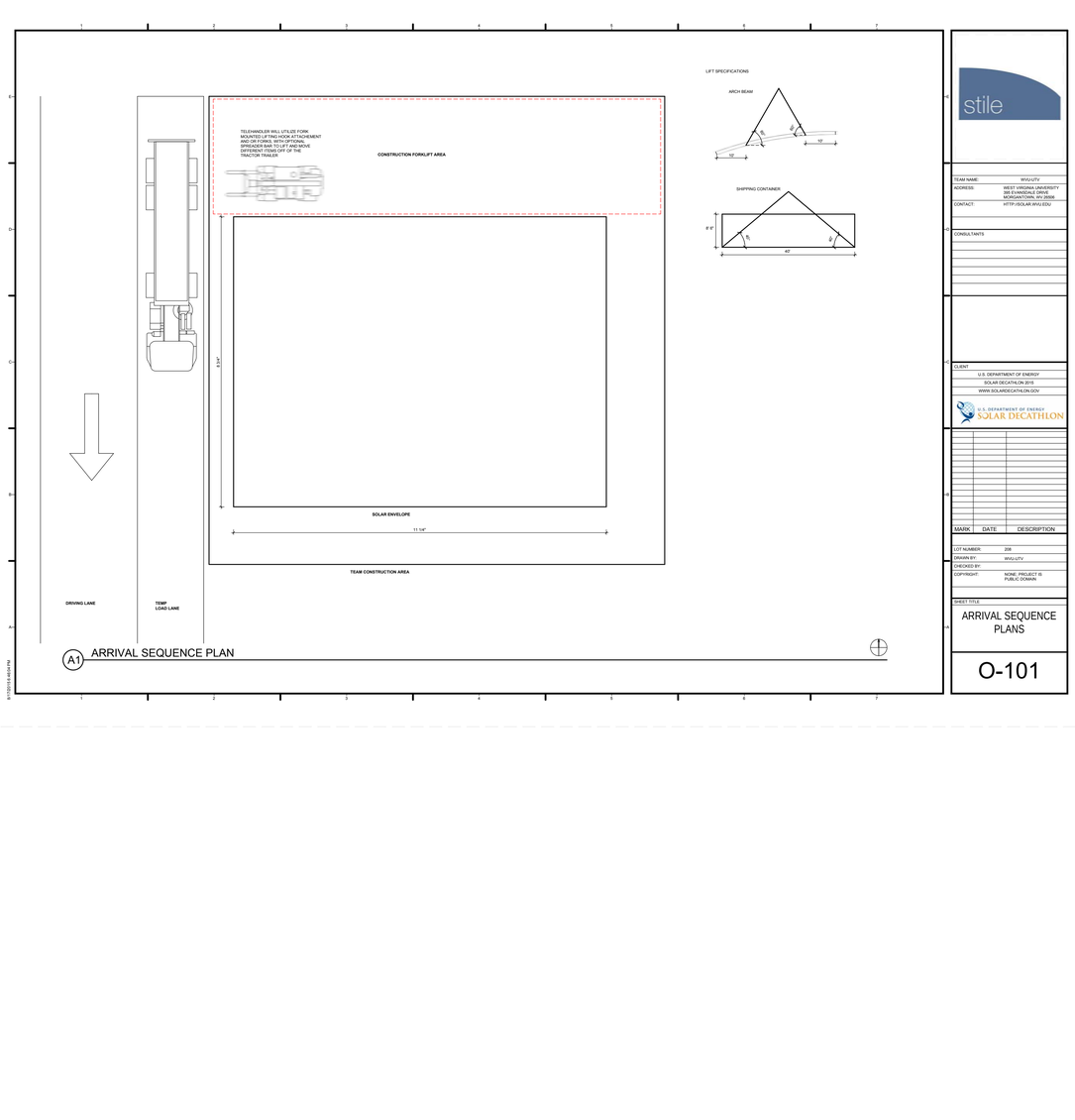
8/17/2015 6:45:58 PM

7/8"

4"

7/8"

1"



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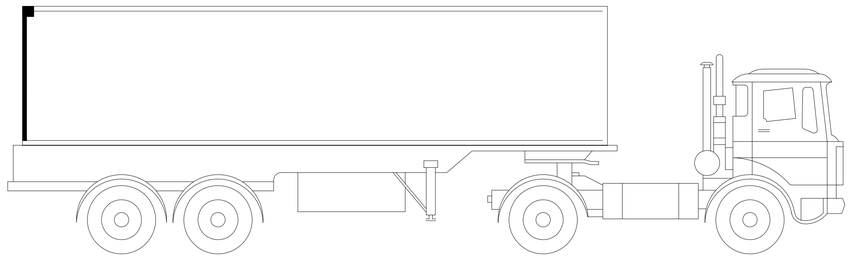
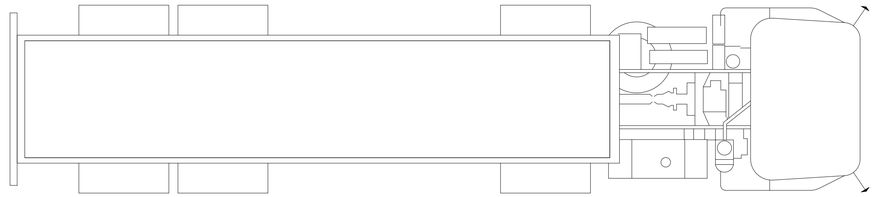
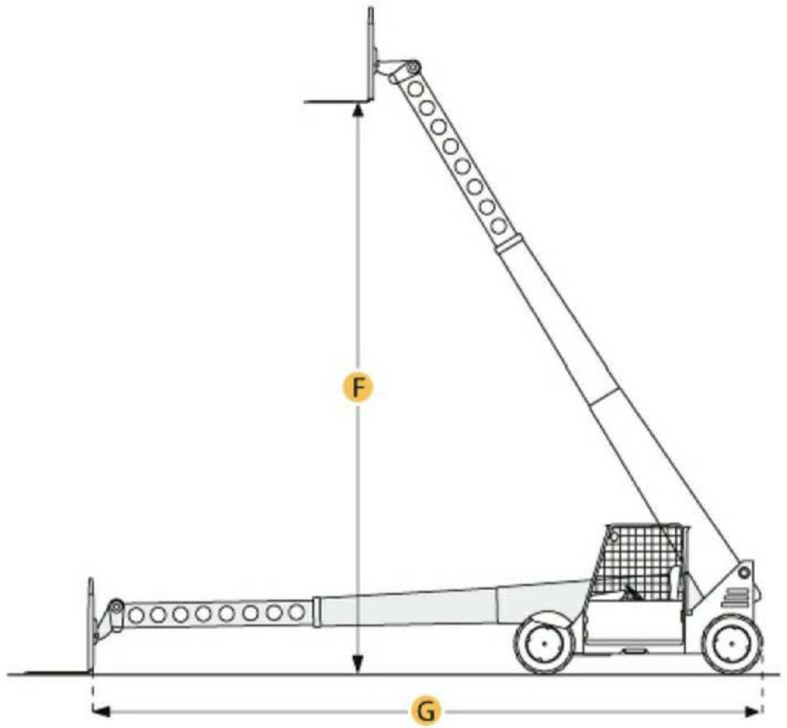
ARRIVAL SEQUENCE PLANS

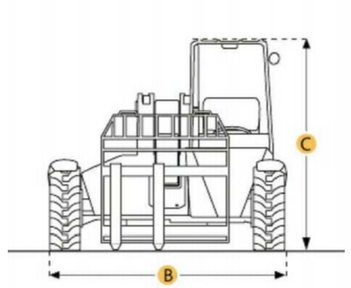
O-101

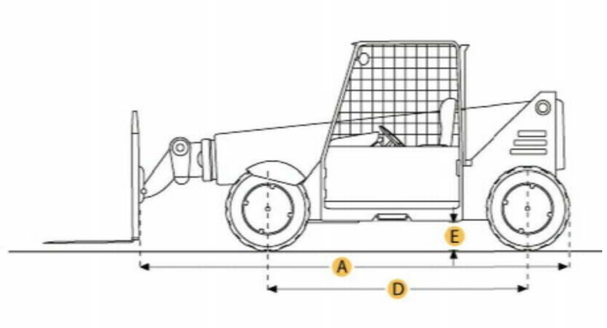




3 TRUCKS CARRYING THREE 40' HIGH-CUBE CONTAINER







Dimensions

A. LENGTH TO FORK FACE	20 ft in	6100 mm
B. WIDTH OVER TIRES	8.5 ft in	2590 mm
C. OVERALL HEIGHT	8.9 ft in	2720 mm
D. WHEELBASE	10.8 ft in	3300 mm
E. GROUND CLEARANCE	1.4 ft in	430 mm

Lift

F. MAX LIFT HEIGHT	42 ft in	12800 mm
G. MAX FORWARD REACH	25 ft in	7620 mm

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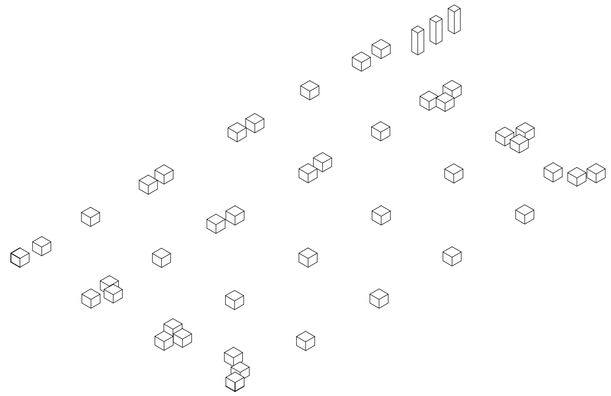
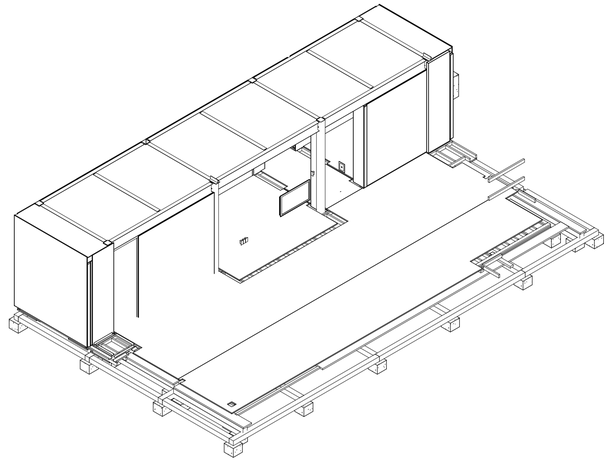
CONSTRUCTION EQUIPMENT SCHEDULE

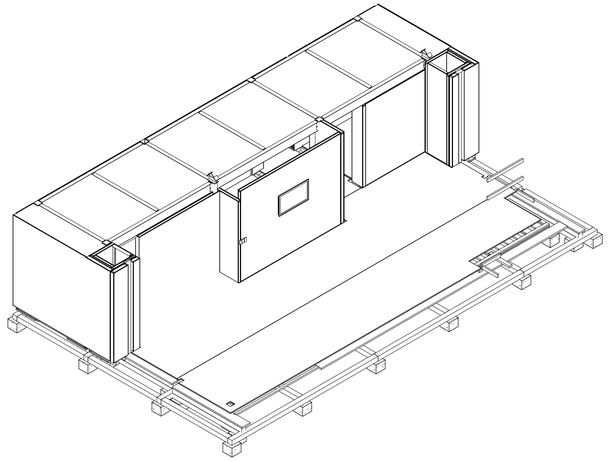
O-601

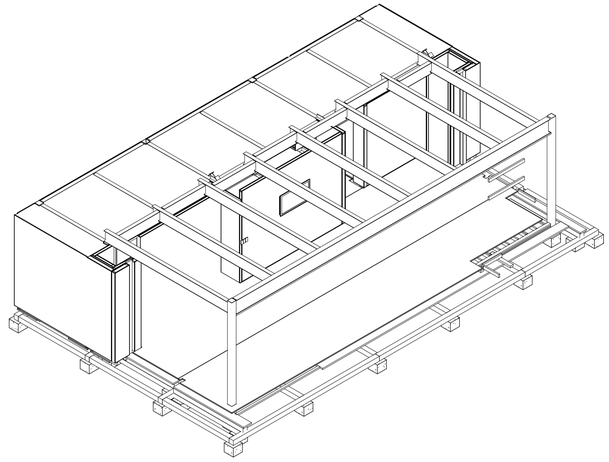




C1 CONSTRUCTION SEQUENCE 01

C3 CONSTRUCTION SEQUENCE 02





A1 CONSTRUCTION SEQUENCE 03

A3 CONSTRUCTION SEQUENCE 04

GENERAL SHEET NOTES

THE MODULES WILL BE MOVED USING A FORKLIFT WITH THE PROPER SAFETY OPERATIONS. ONCE THE MODULE CONNECTION PLATFORM IS DECIDED, THE COSTRUCTION SEQUENCE WILL BE DESIGNED.

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CONSTRUCTION SEQUENCE A

O-902

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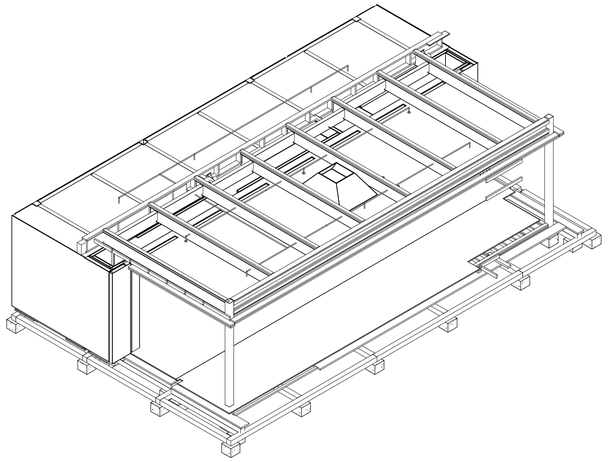
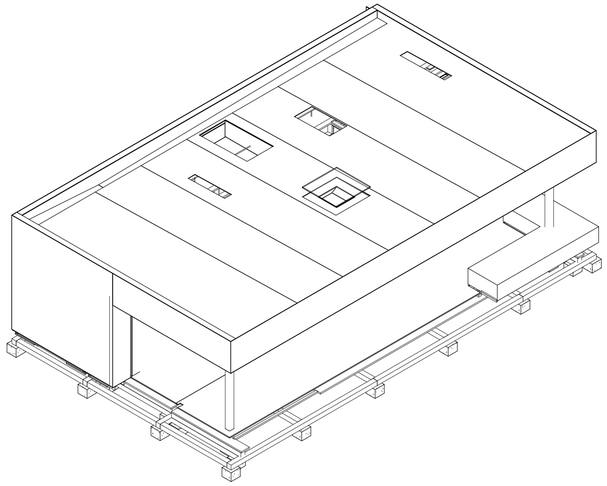
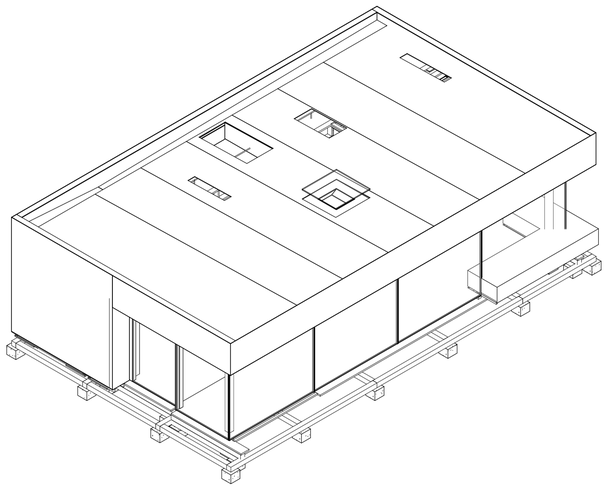


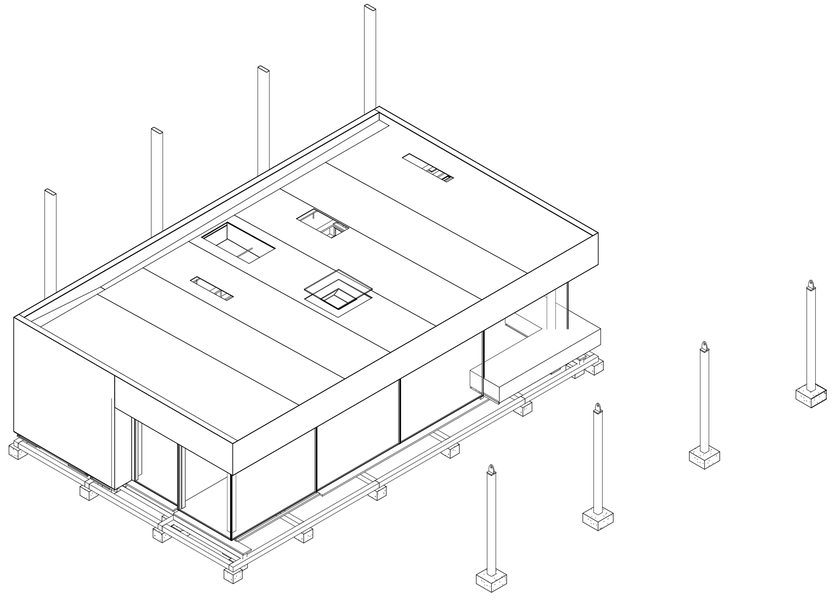
C1 CONSTRUCTION SEQUENCE 05



C4 CONSTRUCTION SEQUENCE 06



A1 CONSTRUCTION SEQUENCE 07



A4 CONSTRUCTION SEQUENCE 08

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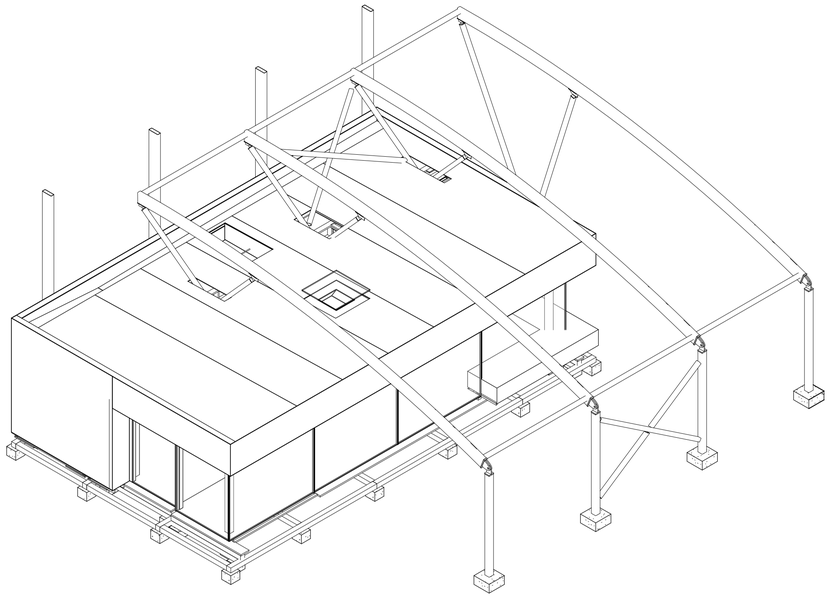
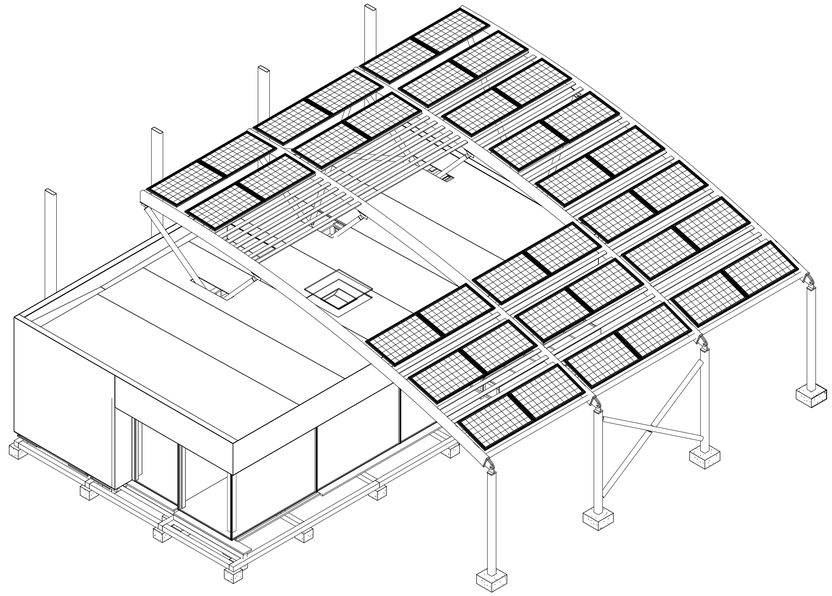
CONSTRUCTION SEQUENCE B

O-903



C1 CONSTRUCTION SEQUENCE 09



A4 CONSTRUCTION SEQUENCE 10

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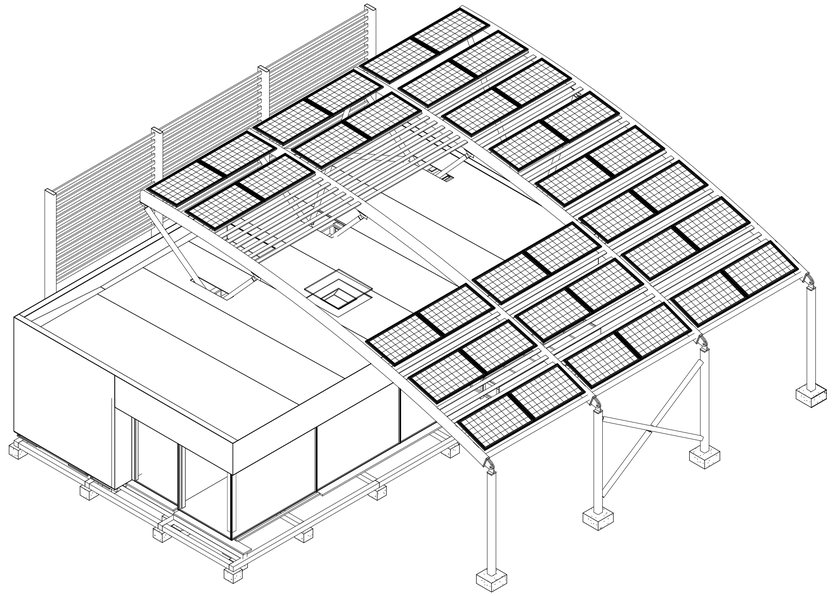
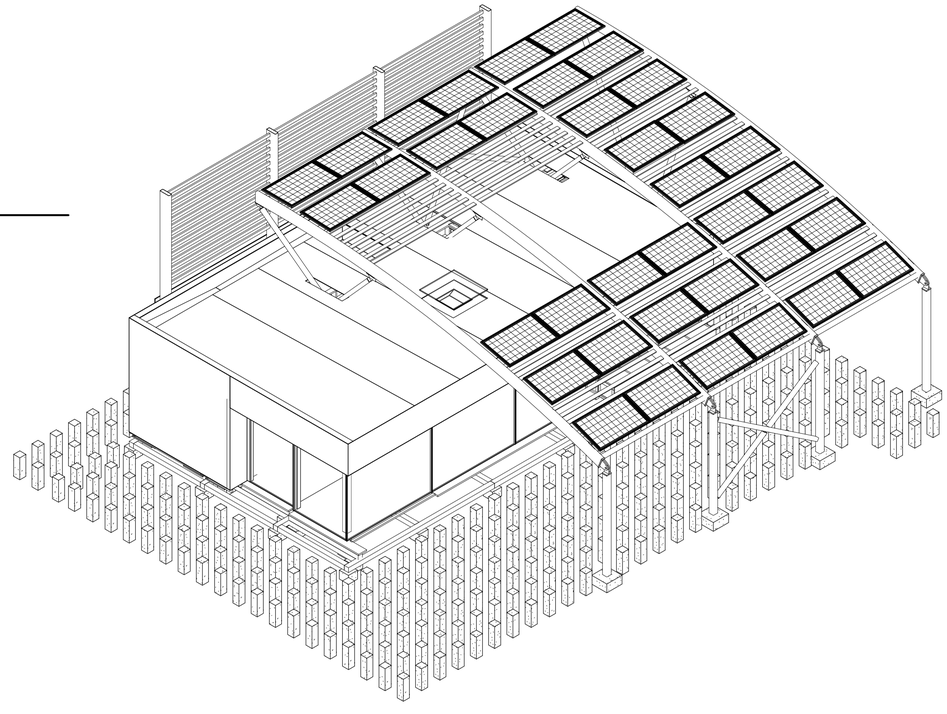
CONSTRUCTION SEQUENCE C

O-904



C1 CONSTRUCTION SEQUENCE 11



A4 CONSTRUCTION SEQUENCE 12

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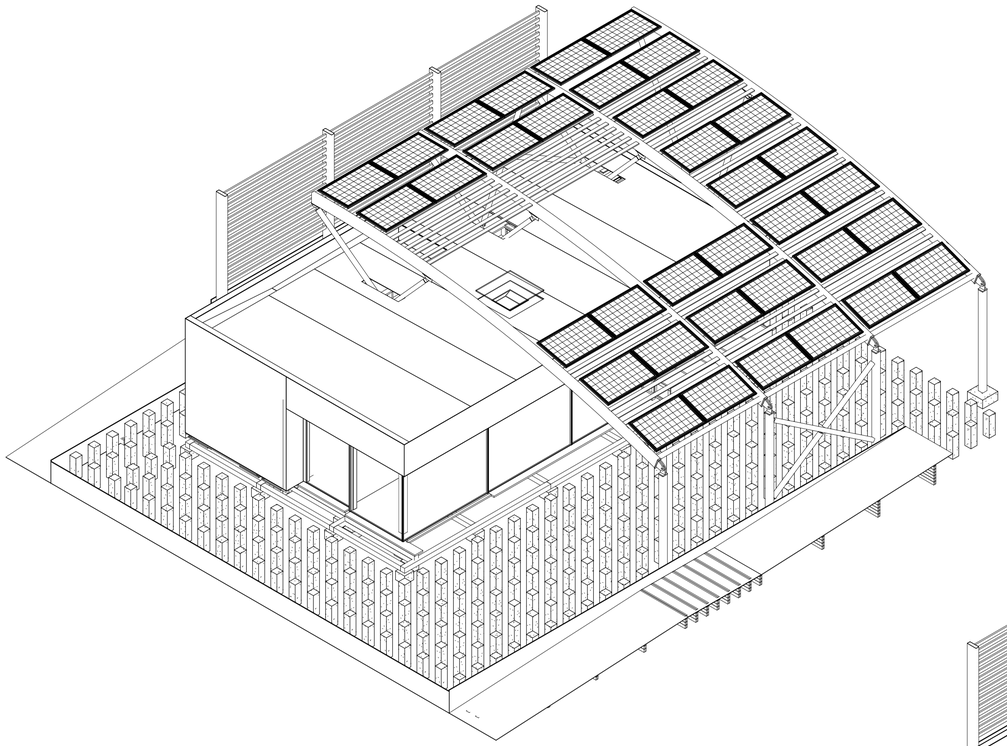
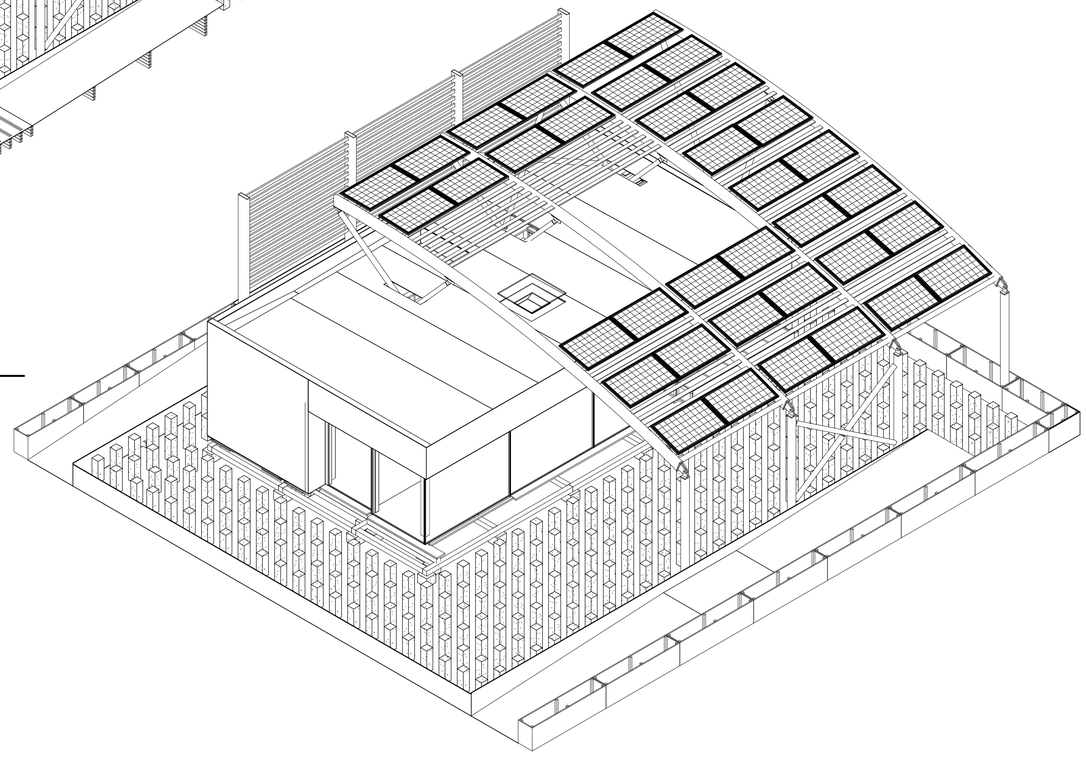
CONSTRUCTION SEQUENCE D

O-905



B1 CONSTRUCTION SEQUENCE 13



A3 CONSTRUCTION SEQUENCE 14

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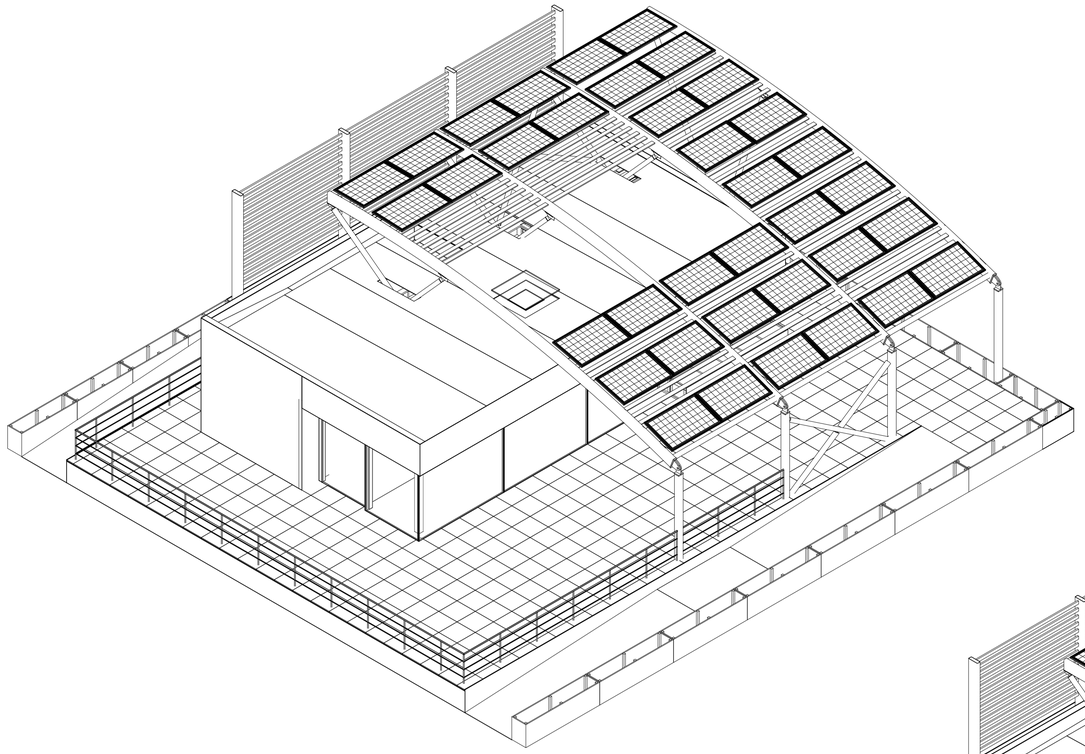
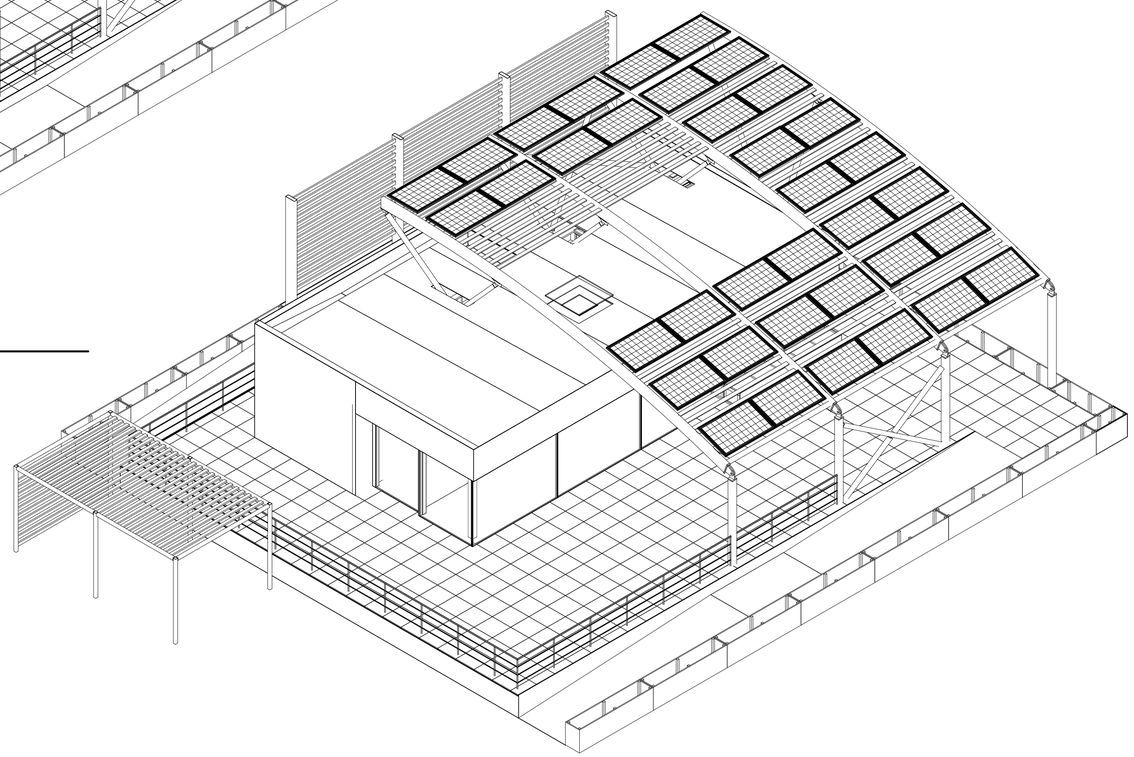
CONSTRUCTION SEQUENCE E

O-906



B1 CONSTRUCTION SEQUENCE 15



A4 CONSTRUCTION SEQUENCE 16

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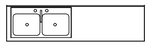
CONSTRUCTION SEQUENCE F

O-907

PLUMBING SHEET LIST	
SHEET NO	SHEET NAME
P-001	PLUMBING SYMBOLS AND NOTES
P-103	DOMESTIC RETURN
P-102	DOMESTIC SUPPLY



KITCHEN SINK

TOILET

WATER HEATER

DISHWASHER

WASHER

SHOWER

BATHROOM SINK

COLD WATER LINE

HOT WATER LINE

WASTE WATER LINE

GREY WATER LINE

WASTE STACK

CONTROL VALVE

CHECK VALVE

500 GALLON WATER BLADDER

500 GALLON WASTE BLADDER

GREY WATER FILTER

RAIN WATER LINE

PEX MANIFOLD (RETURN)

PEX MANIFOLD (COLD WATER)

PEX MANIFOLD (HOT WATER)

THERMAL EXPANSION TANK (EXPANSION COEFFICIENT 0.0228)

2 PORT VALVE

SAFETY VALVE

TEE CONNECTION

REVERSE OSMOSIS FILTER

B2 PLUMBING SYMBOLS

1/4" = 1'-0"

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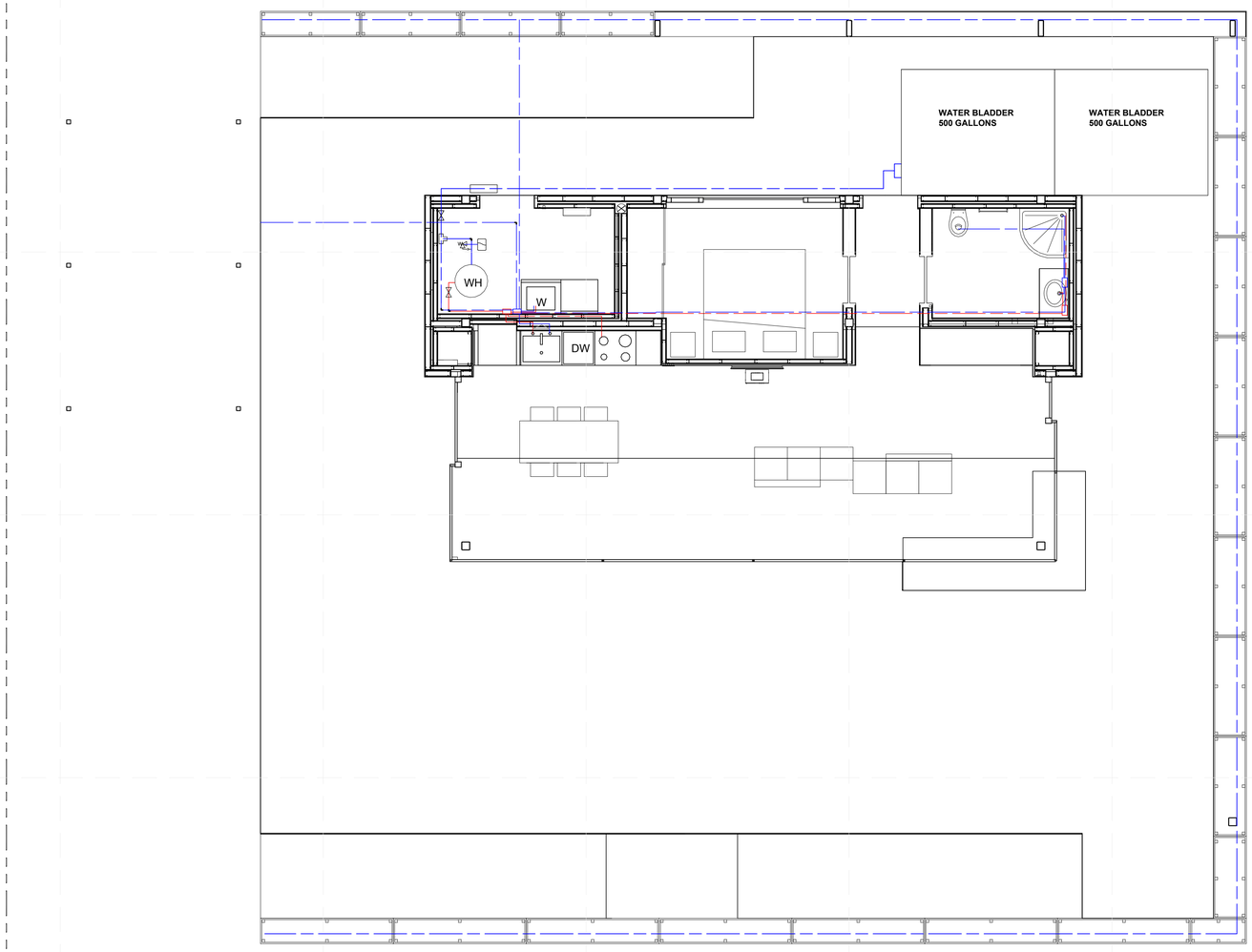
PLUMBING SYMBOLS AND NOTES

P-001



A1 DOMESTIC SUPPLY
1/4" = 1'-0"

8/17/2015 6:46:29 PM

GENERAL SHEET NOTES

1) ALL PIPING FROM PEX MANFOLD TO FIXTURE HAS TO BE 3/4" PEX TUBING UNLESS OTHERWISE SPECIFIED.
2) THE MAIN PIPE FROM THE TANKS TO THE PEX MANFOLD HAS TO BE 1" PEX TUBING.

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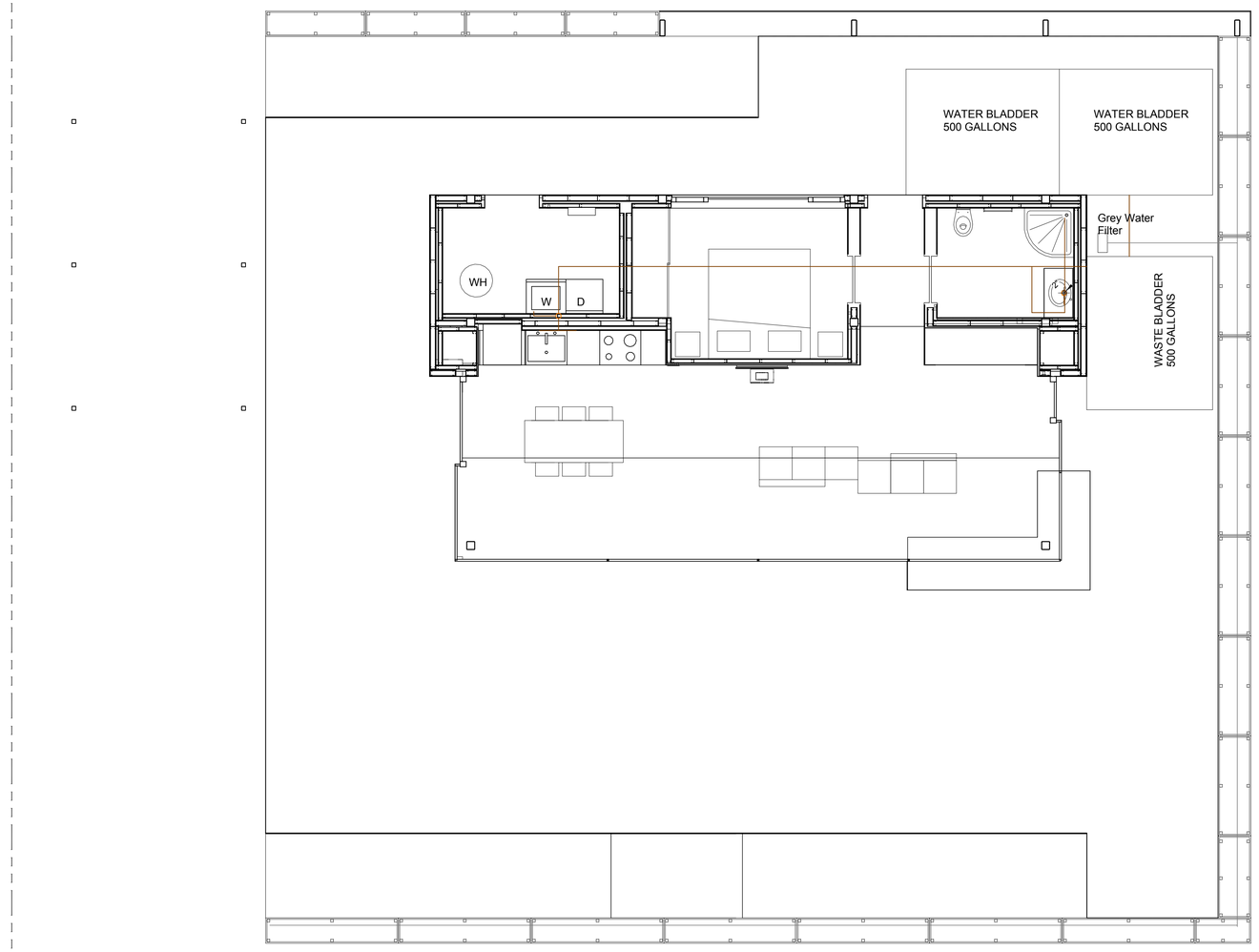
DOMESTIC SUPPLY

P-102



A1 DOMESTIC RETURN
1/4" = 1'-0"

0 2' 4' 8'

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SHEET TITLE

DOMESTIC RETURN

P-103

GENERAL STRUCTURAL NOTES:

1. SEE PROJECT MANUAL FOR:
   A. QUALITY OF CONSTRUCTION REQUIRED.
   B. PERFORMANCE LEVELS OF WORKMANSHIP.
   C. MANUFACTURING AND INDUSTRY STANDARDS.
   D. STRENGTH AND PHYSICAL REQUIREMENTS OF MATERIALS.
   E. CONFORMANCE TO CODES AND REGULATIONS.
   F. WARRANTY REQUIREMENTS
2. SHOULD A DISCREPANCY OCCUR BETWEEN THE CONSTRUCTION DRAWINGS AND THE PROJECT TECHNICAL SPECIFICATIONS IN THE PROJECT MANUAL, THE SPECIFICATIONS (INCLUDING GEOTECHNICAL REPORT) WILL GOVERN
3. DESIGN CODE: IBC 2012, RISK CATEGORY II
4. NO PROVISIONS HAVE BEEN MADE FOR FUTURE HORIZONTAL OR VERTICAL EXPANSION.

5. WIND DESIGN DATA:
ULTIMATE 3-SECOND GUST DESIGN WIND SPEED: 115 MPH
NOMINAL 3-SECOND GUST DESIGN WIND SPEED: 85 MPH
WIND EXPOSURE CLASSIFICATION: C
INTERNAL PRESSURE COEFFICIENT: +/-0.18 COMPONENTS AND CLADDING
DESIGN WIND PRESSURE FOR EXTERIOR COMPONENT: 25 PSF

6. EARTHQUAKE DESIGN DATA:
SEISMIC IMPORTANCE FACTOR, Ie = 1.00
MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS:
SS =1.404, S1 = 0.503
DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS:
SDS =0.936, SD1 = 0.503
SEISMIC SITE CLASS: D
SEISMIC DESIGN CATEGORY: D

BASIC SEISMIC FORCE RESISTING SYSTEM:
ORDINARY STEEL BRACED AND MOMENT FRAMES

DESIGN BASE SHEAR:
ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE PROCEDURE

7. LIVE LOAD DATA:

UNIFORM FLOOR LIVE LOADS:

LOCATION	LOAD
RESIDENTIAL	40 PSF

CONCENTRATED FLOOR LIVE LOADS (DISTRIBUTED OVER AN ARE2-1/2 SQ. FT., UNLESS NOTED OTHERWISE):OFFICE BUILDINGS 2000 LBS

HANDRAIL:
TOP RAIL: 200 LB. OR 50 LB/FT APPLIED NON-CONCURRENTLY IN ANY DIRECTION.

8. SNOW LOAD DATA:

GROUND SNOW LOAD, PG = 20 PSF
FLAT ROOF SNOW LOAD, PF =20 PSF (MIN)
SNOW EXPOSURE FACTOR, C_e =1.0
THERMAL FACTOR, CT =1.1
SNOW LOAD IMPORTANCE FACTOR, IS =1.0

9. GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS RELATED TO EXISTING CONSTRUCTION, EXISTING SERVICES, AND THE SITE.

10. CONSTRUCTION LOADS SHALL NOT EXCEED DESIGN LIVE LOADS. SHORING AND RE-SHORING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

CONSTRUCTION MEANS AND METHODS

1. CONTRACTOR AGREES THAT CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF THE WORK, INCLUDING SAFELY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD OWNER AND STRUCTURAL ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF OWNER OR STRUCTURAL ENGINEER.

2. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INCLUDE THE METHOD OF CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO: PROTECTION OF SUBGRADE FROM FREEZING CONDITIONS, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, TEMPORARY STRUCTURES, AND PARTIALLY COMPLETED WORK. OBSERVATION VISITS TO THE SITE BY STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

3. ADS CONSULTING ENGINEERS SHALL NOT HAVE CONTROL OVER OR CHARGE OF AND SHALL NOT BE RESPONSIBLE IN ANY WAY FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, OR SAFETY OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH ANY CONSTRUCTION ACTIVITIES, SINCE THESE ARE SOLELY CONTRACTOR'S RESPONSIBILITY UNDER THE CONTRACT.

4. ADS CONSULTING ENGINEERS SHALL NOT BE RESPONSIBLE FOR CONTRACTOR'S SCHEDULE OR FAILURES TO CARRY OUT ANY CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS; ADS CONSULTING ENGINEERS SHALL NOT HAVE CONTROL OVER OR CHARGE OF ACTIONS OF CONTRACTOR, SUBCONTRACTOR, OR ANY OF THEIR AGENTS, OR EMPLOYEES, OR ANY OTHER PERSONS PERFORMING PORTIONS OF ANY CONSTRUCTION ACTIVITIES.

5. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED AND PROVIDED BY CONTRACTOR.

PERFORMANCE REQUIREMENT S:

1. NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION, MANUAL OR CODE (WHETHER OR NOT SPECIFICALLY INCORPORATED BY REFERENCE IN THE CONTRACT DOCUMENTS) SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND RESPONSIBILITIES OF OWNER, CONTRACTOR, ENGINEER, SUPPLIER, OR ANY OF THEIR CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOSE SET FORTH IN THE CONTRACT DOCUMENTS. NOR SHALL IT BE EFFECTIVE TO ASSIGN TO THE STRUCTURAL ENGINEER OF RECORD OR ANY OF THE STRUCTURAL ENGINEER OF RECORD'S CONSULTANTS, AGENTS, OR EMPLOYEES ANT DUTY OR AUTHORITY TO SUPERVISE OR DIRECT THE FURNISHING OR PERFORMANCE OF THE WORK OR ANY DUTY OR AUTHORITY TO UNDERTAKE RESPONSIBILITIES CONTRARY TO THE PROVISIONS OR THE CONTRACT DOCUMENTS.

2. CONTRACT DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO, THE STRUCTURAL DOCUMENTS (DRAWINGS AND SPECIFICATIONS), BUT DO NOT INCLUDE SHOP DRAWING, VENDOR DRAWINGS, OR MATERIALS PREPARED AND SUBMITTED BY THE CONTRACTOR.

3. REFERENCE TO STANDARD SPECIFICATIONS OR ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION OR TENTATIVE SPECIFICATION ADOPTED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED OTHERWISE.

4. CONTRACT DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH THE CODE OF PRACTICE OR SPECIFICATIONS OF ACI, PCI, AISC, SJI, OR OTHER STANDARDS. WHERE A CONFLICT OCCURS WITHIN THE CONTRACT DOCUMENTS, THE STRICTEST REQUIREMENT SHALL GOVERN.

5. CONTRACTOR SHALL OBTAIN AND COORDINATE EDGE OF SLAB AND ROOF DECK EDGE DIMENSIONS, OPENING LOCATIONS AND DIMENSIONS, DEPRESSED SLAB LOCATIONS AND EXTENTS, SLAB SLOPES, CURB LOCATIONS, AND CMU WALL LOCATION. ARCHITECT/STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY OR OMISSION. IN THE EVENT OF DISCREPANCIES, THE NON- STRUCTURAL ARCHITECTURAL DETAILS SHALL GOVERN.

6. CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK. ARCHITECT/STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY.

7. CONTRACTOR SHALL VERIFY THE STRUCTURALLY SUPPORTED MECHANICAL EQUIPMENT WEIGHTS, OPENING SIZES, AND LOCATIONS IDENTIFIED ON THE STRUCTURAL DRAWING WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.

8. CONTRACTOR SHALL VERIFY THAT MISCELLANEOUS FRAMING SHOWN ON THE STRUCTURAL DRAWINGS FOR MECHANICAL EQUIPMENT, OWNER-FURNISHED ITEMS, PARTITIONS, ETC. IS CONSISTENT WITH THE REQUIREMENTS OF SUCH ITEMS.

9. CONTRACTOR HAS RESPONSIBILITY FOR MEANS, METHODS, SAFETY, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.

10. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTABILITY ANALYSIS, AND ERECTION PROCEDURES, INCLUDING DESIGN AND ERECTION OF FRAMEWORK, TEMPORARY BRACING, ETC.

11. CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.

12. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.

13. ELECTRONIC DRAWING FILES WILL NOT BE PROVIDED TO THE CONTRACTOR.

14. STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR THE DESIGN OF STEEL STAIRS, HANDRAILS, CURTAIN WALL/WINDOW SYSTEMS, COLD-FORMED METAL FRAMING, TOILET PARTITION SUPPORTS, SHELF SYSTEMS, OR OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DOCUMENTS, SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY OTHERS AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS.

15. STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR SPECIFYING ALL WATERPROOFING DETAILS AND ELEMENTS ON THE SUPERSTRUCTURE AND BELOW GRADE STRUCTURES.

16. GENERAL CONTRACTOR SHALL REVIEW AND COORDINATE ELEVATOR RAIL AND HOIST REQUIREMENTS WITH STRUCTURAL DRAWINGS. NOTIFY STRUCTURAL ENGINEER IMMEDIATELY IF CHANGES ARE REQUIRED.

STEEL DECK:

1. DESIGN OF STEEL DECK SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO THE REQUIREMENTS OF THE STEEL DECK INSTITUTE (SDI) AND THE CONTRACT DOCUMENTS. SUBMIT SHOP DRAWINGS WITH DESIGN LOAD DATA SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE. REVIEW OF SHOP DRAWINGS SHALL BE FOR CONTRACTOR'S INTERPRETATION OF DESIGN LOADS AND CONTRACT DOCUMENT DETAILS. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR THE DESIGN OF THE STEEL DECK. DECK SHOWN ON DESIGN DRAWINGS ARE FOR ESTIMATING PURPOSES ONLY.

2. COMPOSITE STEEL DECK SHALL BE CAPABLE OF SUPPORTING THE LOADS DESCRIBED IN THE SPECIFICATIONS, CORRESPONDING TO THE NUMBER OF SPANS AND THE SPAN LENGTH.
   A. COMPOSITE FLOOR DECK IS DESIGNED TO BE UNSHORED UNLESS NOTED OTHERWISE.
   B. COMPOSITE FLOOR SLABS ARE TO BE FINISHED LEVEL. THE WEIGHT OF THE WET CONCRETE WILL CAUSE DEFLECTIONS OF THE STEEL FRAMING, THUS CONCRETE OVERRUNS ARE TO BE ANTICIPATED AND INCLUDED IN THE CONTRACTOR'S BASE BID.
   C. COORDINATE EMBEDDED ITEMS REQUIRED FOR ARCHITECTURAL, STRUCTURAL AND MECHANICAL ELEMENTS.

STRUCTURAL STEEL:

1. ALL STRUCTURAL STEEL WORK SHALL BE IN ACCORDANCE WITH THE "SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL BUILDINGS" (13TH EDITION) OF THE AISC. MAINTAIN COPY OF EACH ON JOB SITE DURING CONSTRUCTION.

2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:
   A. WIDE FLANGE SHAPES AND WT'S - ASTM A 992 WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI.
   B. CHANNELS, ANGLES, PLATES, AND MISCELLANEOUS CONNECTION MATERIAL - ASTM A36 WITH A MINIMUM YIELD STRENGTH OF 36,000 PSI UNLESS NOTED OTHERWISE.
   C. PIPES - ASTM A501 WITH A MINIMUM YIELD STRENGTH OF 36,000 PSI OR ASTM A53 TYPE E OR S WITH A MINIMUM YIELD STRENGTH OF 35,000 PSI.
   D. TUBES - ASTM A500, GRADE B WITH A MINIMUM YIELD STRENGTH OF 46,000 PSI.

3. ALL BOLTS SHALL BE 3/4 " DIA. UNLESS NOTED OTHERWISE ASTM A325 H.S. BOLT OF EITHER FRICTION OR BEARING TYPE. USE SLIP CRITICAL CONNECTIONS FOR ALL WIND BRACING CONNECTIONS. THREADS SHALL BE INCLUDED IN THE SHEAR PLANE.

4. ALL BOLTED CONNECTIONS SHALL BE MADE ACCORDING TO AISC TABLE II OR III FRAMED BEAM CONNECTIONS. THE MINIMUM DEPTH OF CONNECTION MUST BE MORE THAN ONE HALF THE DEPTH OF THE BEAM EXCEPT THAT BEAMS FRAMING TO COLUMNS SHALL HAVE FULL DEPTH CONNECTIONS USING 3/8 " CONNECTION ANGLES OR PLATES. CONTRACTOR SHALL PROVIDE CERTIFIED DESIGN FOR ALL SHEAR CONNECTIONS BY A PROFESSIONAL ENGINEER IN THE STATE IN WHICH THE PROJECT IS LOCATED. SUBMIT CALCULATIONS FOR MOMENT CONNECTIONS USING BRACED MEMBER CAPACITY U.N.O. ON PLANS. MINIMUM END REACTION OF BEAMS:
   W8'S = 10 KIPS
   W10'S = 12 KIPS
   W12'S = 16 KIPS
   W14'S = 18 KIPS
   W16'S = 20 KIPS
   W18'S = 22 KIPS
   W21'S = 24 KIPS
   W24'S = 26 KIPS
6. ALL WELDING SHALL BE IN STRICT ACCORDANCE WITH THE STANDARDS OF THE AWS AND THE AISC. USE E70XX ELECTRODES.

7. DO NOT PAINT STEEL WHERE ENCASED IN CONCRETE OR AT FIELD WELD AREAS.

8. NO SHOP OR FIELD HOLES OR CUTS ARE TO BE PLACED IN STRUCTURAL MEMBERS UNLESS INDICATED ON THE CONTRACT OR SHOP DRAWINGS.

9. THE STRUCTURAL STEEL FABRICATOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION. PARTICULARLY FOR STAIRS, HANDRAIL SYSTEMS, ETC.

10. THE STRUCTURAL STEEL FABRICATOR SHALL PROVIDE FOR VERTICAL AND HORIZONTAL ADJUSTMENT OF ALL SUPPORT ASSEMBLIES.

11. THE STRUCTURAL STEEL FABRICATOR AND/OR THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS AT THE SITE. ALL DISCREPANCIES FOUND SHALL BE REPORTED TO THE ARCHITECT PRIOR TO PREPARATION OF SHOP DRAWINGS. SHOP DRAWINGS SHALL INCLUDE ALL FIELD MEASUREMENTS AND CONDITIONS.

12. EXPANSION BOLTS: USE EXPANSIVE ANCHORS OF THE DIAMETER INDICATED ON THE DRAWINGS AS MANUFACTURED BY HILTI FASTENING SYSTEMS OR APPROVED EQUAL.
   A. IN CONCRETE, USE HSL HEAVY DUTY ANCHORS.
   B. IN BRICK AND CMU, USE SLEEVE AND FILL CMU CELLS AT ALL BOLT LOCATIONS.
13. ANCHOR BOLTS MUST MEET ASTM A1554 GR. 36 SPECIFICATIONS AND BE 3/4" DIAMETER (UNLESS OTHERWISE INDICATED).

16. ALL GALVANIZING SHALL BE PER ASTM A123 AND A 780. ALL STEEL EXPOSED TO THE ELEMENTS AND MASONRY SUPPORT MEMBERS SHALL BE GALVANIZED. BACKUP STEEL SUPPORTING MASONRY VENEER AND PRECAST SUPPORT ANGLES SHALL BE ZINC PRIMED AND PAINTED.

17. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR POSSIBLE MISCELLANEOUS STEEL. THIS STEEL SHALL ALSO CONFORM TO THE REQUIREMENTS IN THESE GENERAL NOTES AND THE STRUCTURAL STEEL SPECIFICATIONS.

18. STEEL FABRICATOR SHALL BE CERTIFIED UNDER THE AISC QUALITY CERTIFICATION PROGRAM.

20. STEEL FABRICATOR SHALL REVIEW ARCHITECTURAL DRAWINGS AND INCLUDE ALL MISCELLANEOUS STEEL IN THEIR BID. IF NOTES ON ARCHITECTURAL DRAWINGS REFER TO "SEE STRUCTURAL" AND THE STRUCTURAL DRAWINGS DO NOT ADDRESS THIS ITEM NOTIFY THE E.O.R. AT LEAST TWO WEEKS PRIOR TO BID OPENING TO ALLOW TIME FOR ISSUE OF ADDENDUM.

21. COLUMN SCHEDULE MAY NOT INCLUDE ALL COLUMNS ON THE PROJECT. REVIEW ALL DRAWINGS TO INSURE ALL COLUMNS ARE INCLUDED IN BID.

23. SUPPORT FOR RTU'S SHALL BE LIMITED TO FRAMED OPENING STEEL AROUND ROOF OPENINGS. ADDITIONAL STEEL REQUIRED FOR RTU SUPPORT SHALL BE DESIGNED AND PROVIDED BY THE GENERAL CONTRACTOR WITH COORDINATION WITH THE RTU MANUFACTURER.

LIGHTGAGE STEEL FRAMING (LSF):

1. ALL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE (AISI "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION). WIND LOAD DETERMINATION FOR COMPONENTS AND CLADDING SHALL BE PER ASCE STANDARD, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES

2. ALL STRUCTURAL STUD AND/OR JOIST FRAMING MEMBERS SHALL BE ENGINEERED BY THE MANUFACTURER. DESIGN CALCULATIONS AND SHOP DRAWINGS INDICATING ALL JAMBS, POSTS, HEADERS, BRACING, AND PIECES NECESSARY FOR CONSTRUCTION SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW.

3. EXTERIOR STUD WALLS SHALL BE DESIGNED FOR A MINIMUM UNIFORM WIND PRESSURE AS PER IBC - 2012 FOR COMPONENTS AND CLADDING AND A MAXIMUM PERMISSIBLE HORIZONTAL DEFLECTION OF L/360 (L600 FOR UNREINFORCED VENEER).

4. MAXIMUM STUD SPACING SHALL BE 16" O.C.

5. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS OR AS REQUIRED FOR AN ANGULAR FIT AGAINST ABUTTING MEMBERS.

6. ALL FIELD CUTTING OF STUDS MUST BE DONE BY SAWING OR SHEARING. TORCH CUTTING OF COLD-FORMED MEMBERS IS UNACCEPTABLE.

7. FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS OR WELDING. SCREWS SHALL BE OF SUFFICIENT SIZE TO INSURE THE STRENGTH OF THE COMPONENT. WIRE TYING OF COMPONENTS SHALL NOT BE PERMITTED. ALL WELDS SHALL BE TOUCHED-UP WITH ZINC-RICH PAINT.

8. LSF MEMBERS SHALL BE SECURELY ATTACHED TO THE STRUCTURE WHERE INDICATED ON THE DRAWINGS OR APPROVED SHOP DRAWINGS. FASTENERS SHALL BE COMPATIBLE TO THE STRUCTURAL MEMBERS.

9. PROVIDE VERTICAL SLIDE TRACKS OR SLIDE CLIPS WHERE INDICATED ON THE DRAWINGS OR OTHERWISE REQUIRED TO ALLOW FOR VERTICAL STRUCTURAL MOVEMENTS. MAXIMUM EXPECTED STRUCTURE DEFLECTIONS ARE L/360 AT FLOORS AND L/240 AT ROOFS.

10. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION, SUCH AS SHEETING TYPE, FINISHES, OPENINGS, ETC.

11. FOR VERTICAL LOAD BEARING STUD WALLS, DO NOT LOAD OVERBEARING ROOF OR FLOORS WITH CONSTRUCTION EQUIPMENT AND/OR STORE BUILDING MATERIALS UNTIL BEARING STUDS ARE FULLY INSTALLED AND BRACED ACCORDINGLY. CONTRACTOR REMAINS RESPONSIBLE FOR MEANS AND METHODS AND CONSTRUCTION SITE SAFETY.

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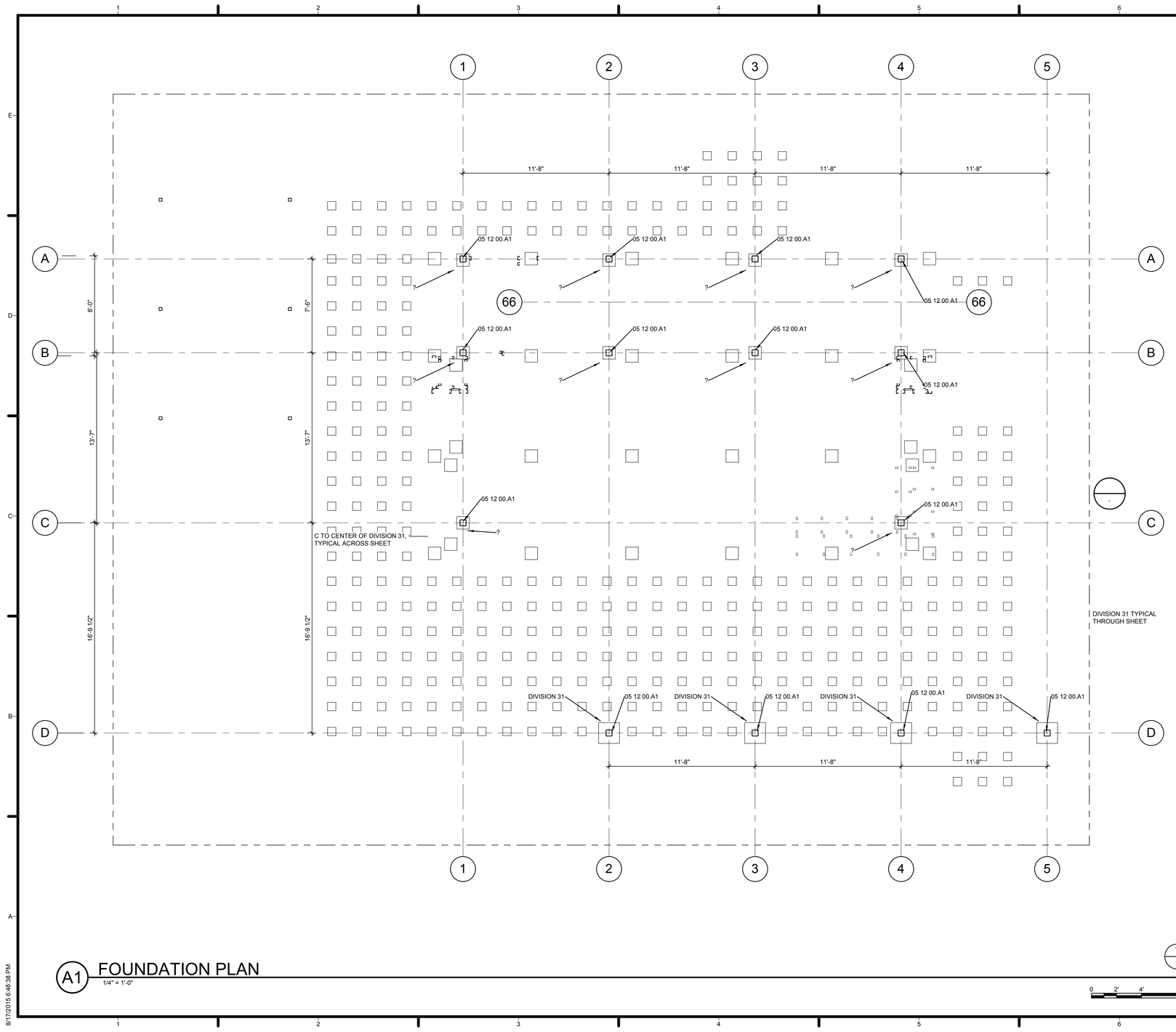
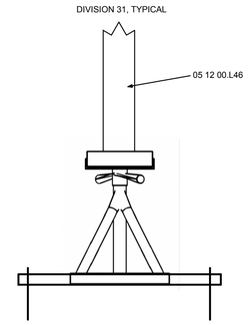
SHEET TITLE

STRUCTURAL NOTES AND SYMBOLS

S-001



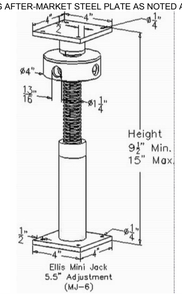
DIVISION 31, TYPICAL



STANDARD JACK LAYOUT:
1. JACKS WILL BE STANDARD ELLIS MINI SCREW JACKS
2. JACKS HAVE A MAXIMUM LOAD CAPACITY OF 15,000 LB
3. JACKS WILL BE MODIFIED USING A 30"x30", 1/4" THICK STEEL PLATE, TO INCREASE GROUND CONTACT AREA
4. ALL JACKS WILL BE CONNECTED TO THE GROUND USING four (4) 1" DIAMETER, A36 STEEL ANCHORS
5. ALL ANCHORS CAN SUPPORT AN UPLIFT OF 1,250 LB EACH, AND WILL BE PLACED AT LEAST 36" INTO THE GROUND
6. EACH JACK WILL HAVE FOUR ANCHORS
7. COLUMNS WILL BE PLACED AND ATTACHED TO THE JACKS
8. ATTACHEMENTS WILL BE DESIGNED BY QUALIFIED STEEL SHOP AFTER PURCHASE OF STEEL

THIS IMAGE ABOVE IS A REFERENCE FOR ALL DIVISION 31 ELEMENTS IN SHEETS S-101, S104, S-105

THE IMAGE BELOW IS WHAT THE ACTUAL JACKS WILL BE, NOT INCLUDING AFTER-MARKET STEEL PLATE AS NOTED ABOVE



REFERENCE KEYNOTES

05 12 00.A1	
DIVISION 31	EARTHWORK

05 DENOTES DIVISION 5, METALS
12 DENOTES SUBSECTION STRUCTURAL STEEL
00.L46 DENOTES SUBCATEGORY TS6x6x0.25
DIVISION 31, EARTHWORK

A1 FOUNDATION PLAN
1/4" = 1'-0"

0 2' 4' 8'

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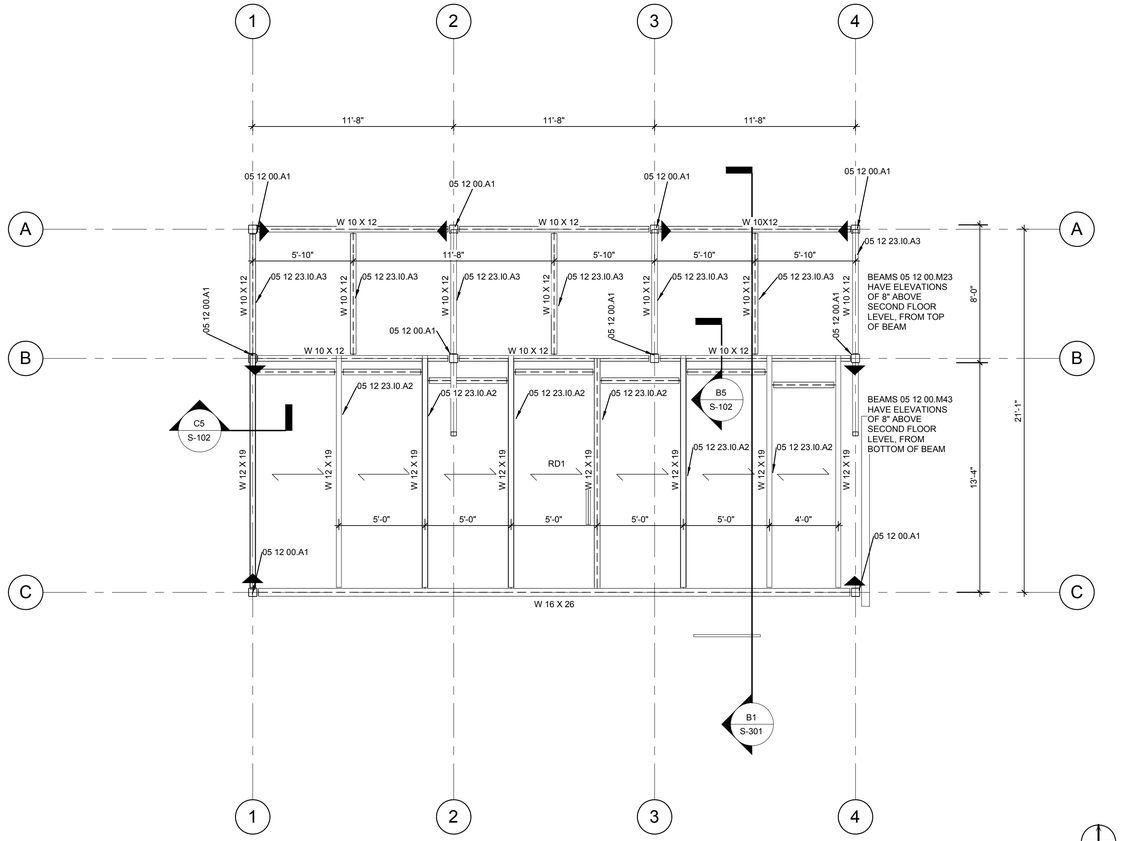
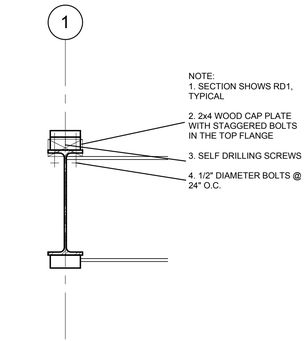
SHEET TITLE
FOUNDATION PLAN

S-101



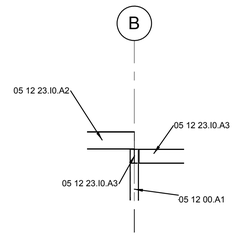
B1 FIRST FLOOR FRAMING PLAN
1/4" = 1'-0"

0 2' 4' 8'



C5 TYPICAL SECTION 1
1 1/2" = 1'-0"

0 1/2" 1' 1 1/2"



B5 TYPICAL SECTION 2
1/4" = 1'-0"

0 1/2" 1' 1 1/2"

NOTE:
1. TYPICAL SECTION 2 SHOWS THAT ON COLUMN ROW B, AT THE SECTION CUT SHOWN, THERE WILL BE STACKED BEAMS. THIS ALLOWS THE TEAM TO CREATE A SUBSTRUCTURE INSIDE THE CONFINES OF A CONTAINER BOX, AND HAVE A CONNECTION TO ANOTHER STRUCTURE OUTSIDE THE CONTAINER

2. THE STACKED VERTICAL BEAM 05 12 00.M43 ENSURES THAT HORIZONTAL BEAMS 05 12 00.M43 DO NOT OVERTURN

3. BELOW BEAM 05 12 00.M43 ALONG COLUMN LINE B, THERE IS A BEAM 05 12 00.M23

4. SECTION 2 IS TYPICAL ALONG COLUMN LINE B

REFERENCE KEYNOTES

05 12 00.A1
05 12 23.I0.A2
05 12 23.I0.A3

05 DENOTES DIVISION 5, METALS

12 DENOTES SUBSECTION STRUCTURAL STEEL

00.L46 DENTOES SUBCATEGORY TS6x6x0.25

00.M23 DENOTES SUBCATEGORY W10x12

GENERAL SHEET NOTES

1.VERTICAL COLUMNS ARE ALL HSS 6X6X1_4 UNLESS NOTED OTHERWISE

2.BEAM REACTIONS WILL EQUAL 10 KIP MINIMUM UNLESS NOTED OTHERWISE.

3.MOMENT REACTIONS WILL EQUAL 10 FT-KIP UNLESS NOTED OTHERWISE.

4."RD1-ROOF DECK 1" INDICATES 1.5" 20 GAUGE GALVANIZED METAL ROOT DECK.

INDICATES MOMENT CONNECTION

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FIRST FLOOR FRAMING PLAN

S-102

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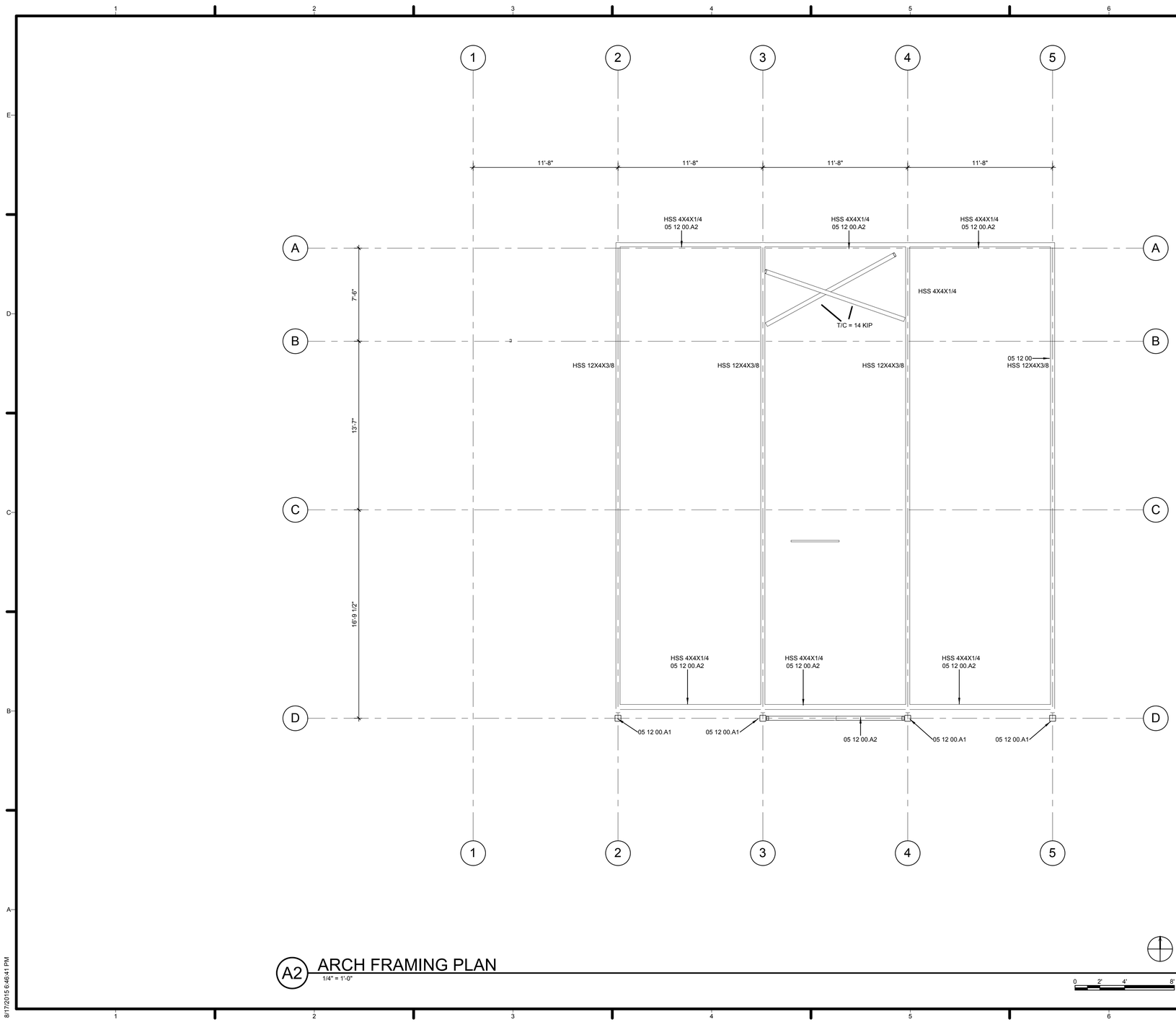

A2 ARCH FRAMING PLAN

1/4" = 1'-0"

0 2' 4' 8'

8/17/2015 6:46:41 PM

REFERENCE KEYNOTES

05 12 00	STRUCTURAL STEEL FRAMING
05 12 00.A1	
05 12 00.A2	

05 DENOTES DIVISION 5, METALS

12 DENOTES SUBSECTION STRUCTURAL STEEL

00.L46 DENOTES SUBCATEGORY TS6x6x0.25

00.L58 DENTOES SUBCATEGORY TS4x4x0.25

GENERAL SHEET NOTES

SHOWN IS ARCH STRUCTURE.

1. BEAM REACTIONS WILL EQUAL 10 KIP MINIMUM UNLESS NOTED OTHERWISE.

2. MOMENT REACTIONS WILL EQUAL 10 FT-KIP UNLESS NOTED OTHERWISE.

3. "RD1-ROOF DECK 1" INDICATES 1.5" 20 GAUGE GALVANIZED METAL ROOT DECK.

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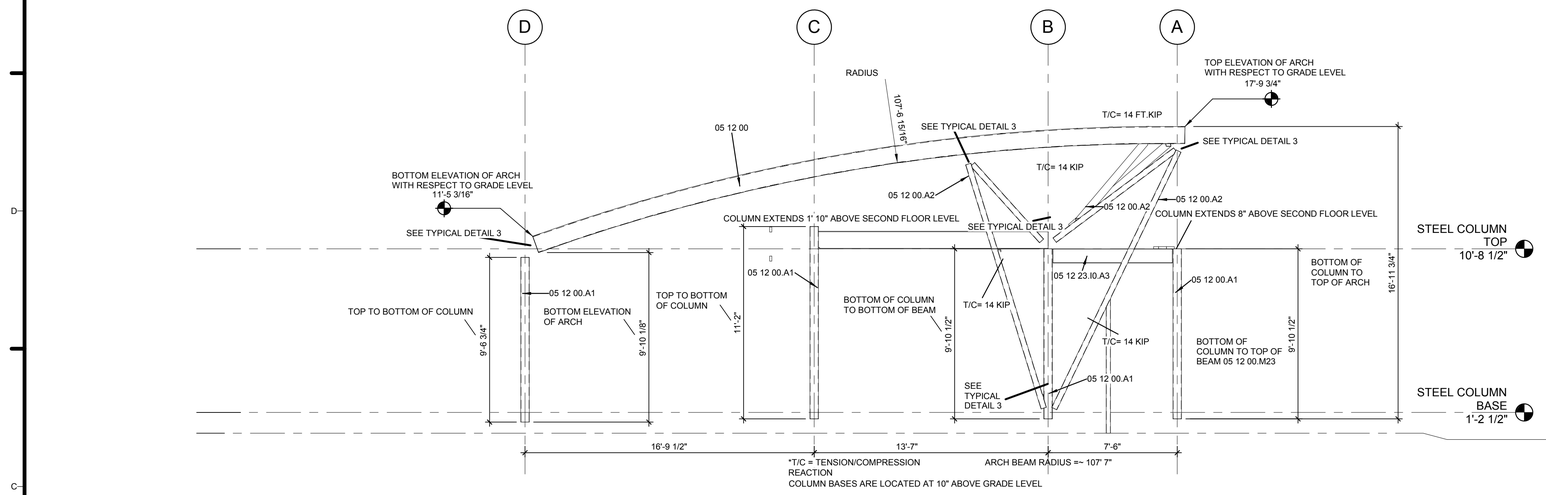
SHEET TITLE

ARCH FRAMING PLAN

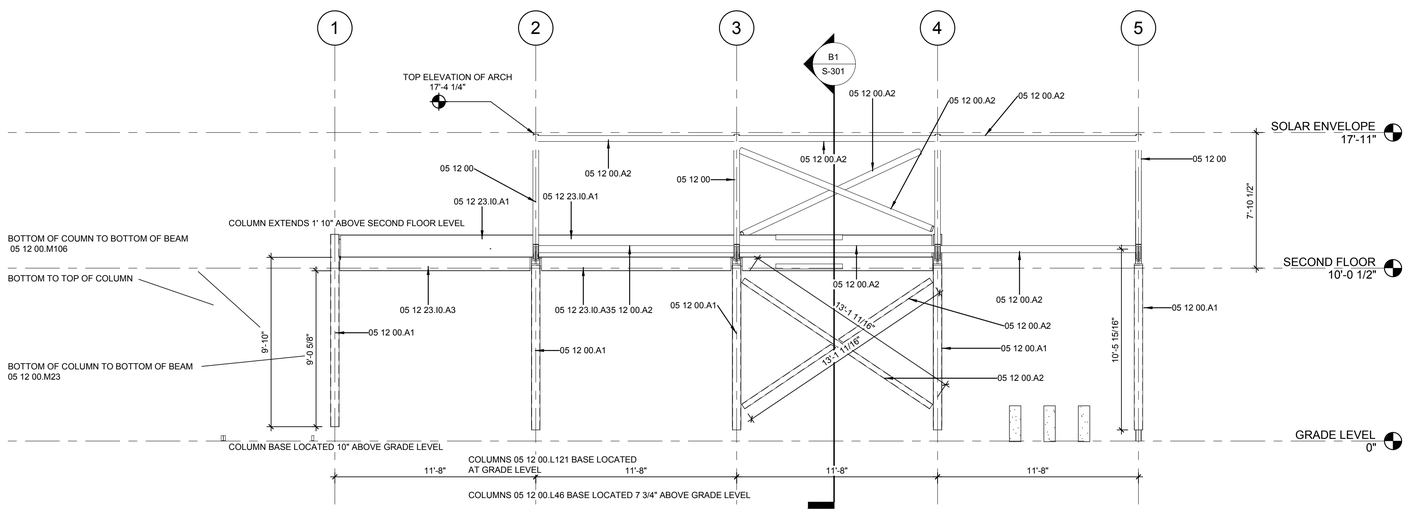
S-103



C1 EAST ELEVATION FRAMING

1/4" = 1'-0"

0 2' 4' 8'



A1 SOUTH ELEVATION FRAMING

1/4" = 1'-0"

0 2' 4' 8'

8/17/2015 6:46:43 PM

REFERENCE KEYNOTES

05 12 00	STRUCTURAL STEEL FRAMING
05 12 00.A1	
05 12 00.A2	
05 12 23.I0.A1	
05 12 23.I0.A3	

05 DENOTES DIVISION 5, METALS

12 DENOTES SUBSECTION STRUCTURAL STEEL

00.A8 DENOTES SUBCATEGORY L8x8x0.625

00.L46 DENOTES SUBCATEGORY TS6x6x0.25

00.L121 DENOTES SUBCATEGEROY TS12x4x0.625

00.M23 DENOTES SUBCATEGORY W10x12

00.M43 DENOTES SUBCATEGORY W12x19

00.M106 DENOTES SUBCATEGORY W16x26

GENERAL SHEET NOTES

1. BEAM REACTIONS WILL EQUAL 10 KIP MINIMUM UNLESS NOTED OTHERWISE.

2. MOMENT REACTIONS WILL EQUAL 10 FT-KIP UNLESS NOTED OTHERWISE.

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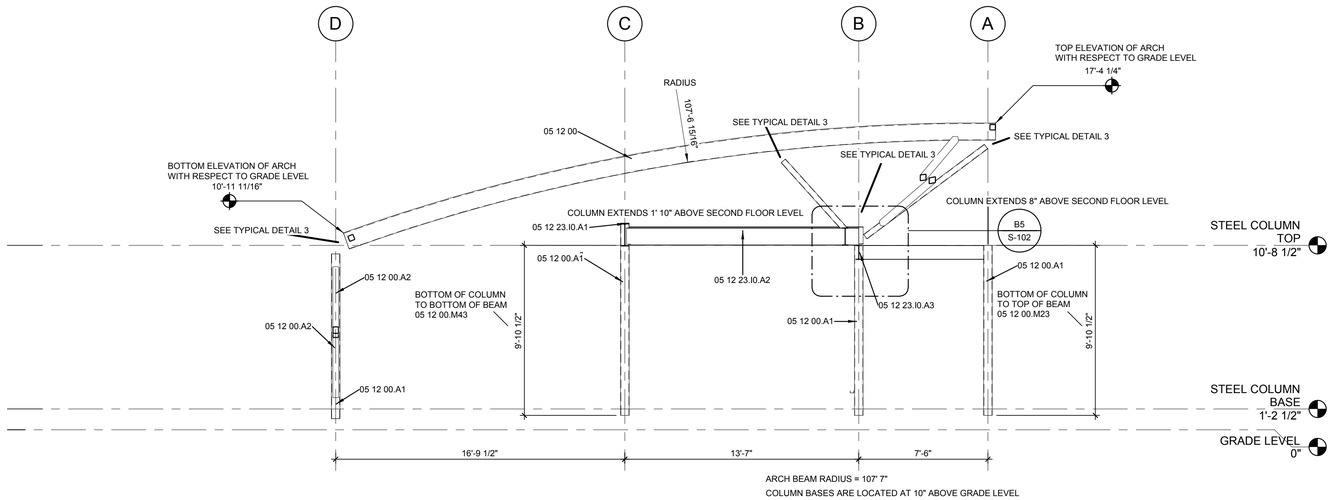
FRAMING ELEVATIONS

S-201



B1 SECTION ARCH STRUCTURE

1/4" = 1'-0"

0 2" 4" 8'

REFERENCE KEYNOTES

05 12 00	STRUCTURAL STEEL FRAMING
05 12 00.A1	
05 12 00.A2	
05 12 23.I0.A1	
05 12 23.I0.A2	
05 12 23.I0.A3	

05 DENOTES DIVISION 5, METALS

12 DENOTES SUBSECTION STRUCTURAL STEEL

00 DENOTES SUBCATEGORY GENERAL

00.L46 DENOTES SUBCATEGORY TS6x6x0.25

00.L58 DENOTES SUBCATEGEROY TS4x4x0.25

00.M23 DENOTES SUBCATEGORY W10x12

00.M43 DENOTES SUBCATEGORY W12x19

00.M106 DENOTES SUBCATEGORY W16x26

GENERAL SHEET NOTES

1. BEAM REACTIONS WILL EQUAL 10 KIP MINIMUM UNLESS NOTED OTHERWISE.

2. MOMENT REACTIONS WILL EQUAL 10 FT-KIP UNLESS NOTED OTHERWISE.

stile

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SHEET TITLE

FRAMING SECTIONS

S-301

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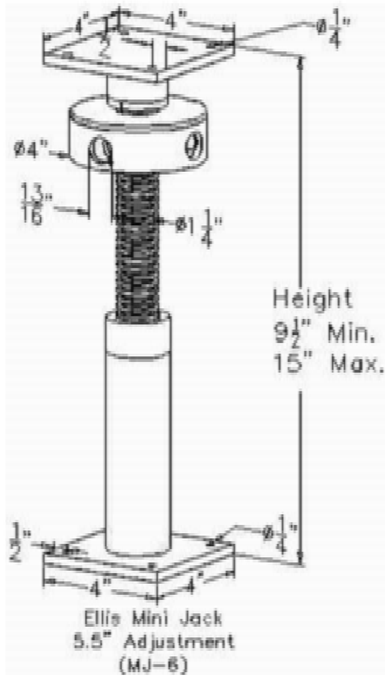

REFERENCE KEYNOTES

SAMPLE PROCDURE TO ENSURE THAT HOUSE WILL BE ABLE TO ACCOMMODATE CHANGES IN GRADE AS WELL AS WIND UPLIFT

DIVISION 31 KEYNOTE REFERENCES A SCREW JACK WITH 5.5" OF ADJUSTMENT. ATTACHED TO THE JACK ARE 4, 1" DIAMETER, A36 STEEL ANCHORS THE BEAM RESTING ON TOP IS FOR VISUAL REFERENCE ONLY, AND DOES NOT DENOTE AN ACTUAL PROPOSED BEAM SIZE, TYPE, OR DIMENSION.

GENERAL SHEET NOTES

1.JACK INCLUDES AN AFTERMARKET, WELDED STEEL PLATE, 30"X30" SQUARE, 1/4" THICK. EACH STEEL PLATE CONTAINS FOUR PLACES FOR 1" DIAMETER, A36 STEEL ANCHORS, WHICH CAN
2.STEEL COLUMNS WILL BE RESTED ON THE TOP OF EACH JACK AND CONNECTED USING STANDARD CONNECTIONS

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PLAN DETAILS

S-501

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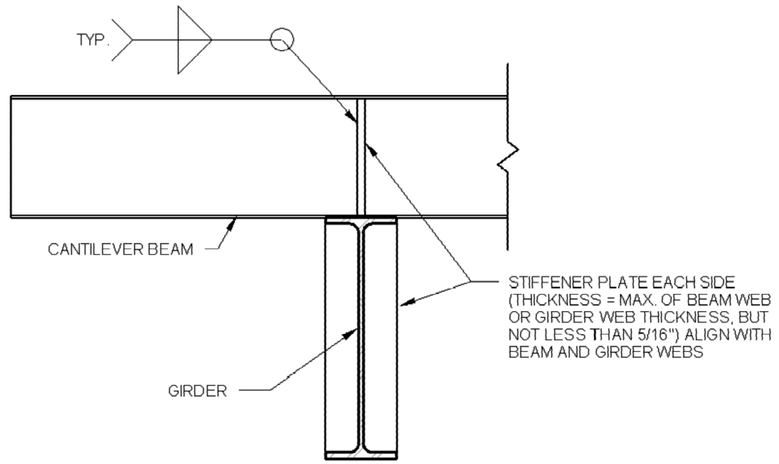
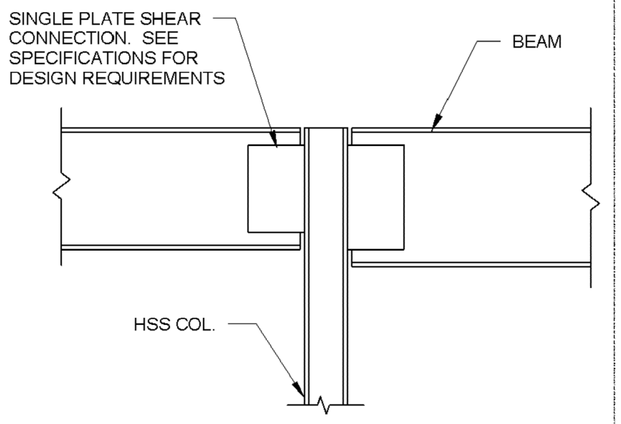
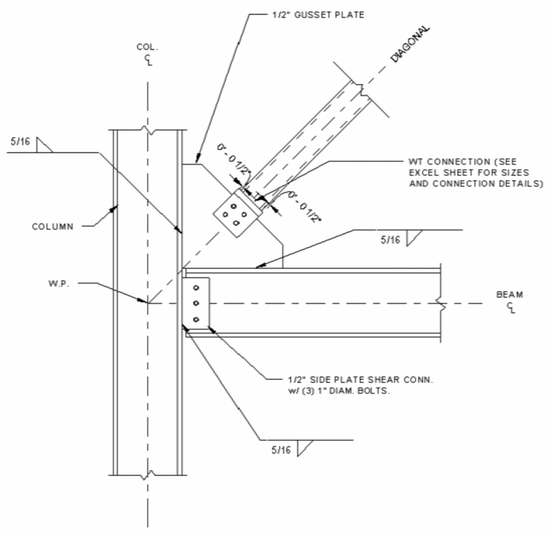


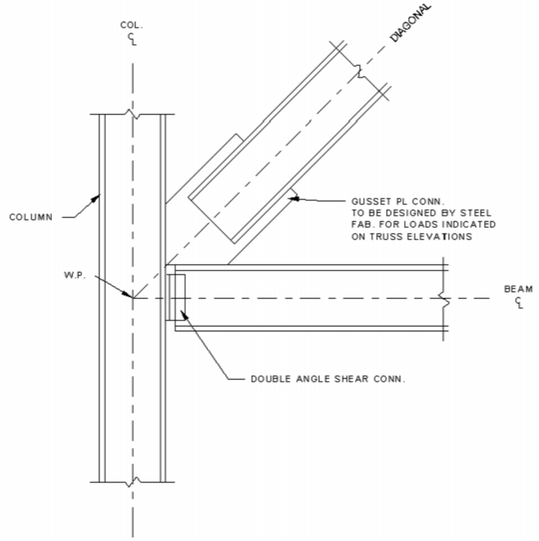
TYPICAL DETAIL 1: CANTILEVER BEAM



TYPICAL DETAIL 2: SHEAR PLATE CONNECTION



TYPICAL DETAIL 3: GUSSET PLATE CONNECTION



TYPICAL DETAIL 4: ANGLED SHEAR CONNECTION

REFERENCE KEYNOTES

GENERAL SHEET NOTES

1. BEAM REACTIONS WILL EQUAL 10 KIP MINIMUM UNLESS NOTED OTHERWISE.

2. MOMENT REACTIONS WILL EQUAL 10 FT-KIP UNLESS NOTED OTHERWISE.

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TYPICAL DETAILS

S-701

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