THE Perform[ce] House is a 800 square-foot home that aims to remain affordable and speak to local tropical/subtropical climates with high humidity, hot temperatures and substantial hurricane risks. The Perform[ce] House employs many passive strategies to help tackle the cooling needs of the house. As one of many examples, a layered facade system allows for optimum flexibility and temperature control. Foldable glass walls open up completely to allow for natural breezes, while dual-purpose operable shutters can provide shading and protect the house from hurricane force winds. Combining functions such as shade, privacy and hurricane protection into a single element, eliminates the need for multiple materials.

Only when passive strategies are insufficient, active systems are implemented to maintain comfortable interior temperatures and humidity levels. These smart systems will detect the needs of the occupants and respond accordingly, providing energy-efficient cooling and heating solutions. The Perform[ce] House is designed for Mr. and Mrs. Gonzalez, a middle-aged Hispanic and American couple. These empty nesters wanted to reduce their impact on the environment by owning a sustainable solar-powered home after their children moved off to college. Juan Gonzalez is a self-employed contractor and a pioneer for green building in the Miami area. Alice Gonzalez is an art history professor at Florida International University and has published three books. Unfortunately, Alice’s multiple sclerosis has worsened and she remains wheelchair bound. The Gonzalez’s new home has been designed to accommodate Alice and all other handicapped individuals by complying with ADA accessibility guidelines and catering to her specific needs. For Alice the house performs and responds to her needs. The open plan of the house will not inhibit Alice during her more severe episodes, and affords her full flexibility during her periods of no symptoms.
1. "FINISHED SQUARE FOOTAGE CALCULATIONS FOR THIS HOUSE WERE MADE BASED ON PLAN DIMENSIONS ONLY AND MAY VARY FROM THE FINISHED SQUARE FOOTAGE OF THE HOUSE AS BUILT.

2. FINISHED AREA MEASURED TO THE EXTERIOR FINISHED SURFACE OF OUTSIDE WALLS.

3. MECHANICAL ROOM - CONSIDERED UNFINISHED AREA NOT COUNTED.

GENERAL SHEET NOTES

LEGEND

FINISHED SQUARE FOOTAGE COMPLIANCE PLAN

G-101
**LIFE SAFETY PLAN**

**DATA TABLE**

- **PER FFPC 101, 2007 EDITION, TABLE 14.8.1.2**
  - OCCUPANCY LOAD FACTOR: 1:100
  - BUILDING AREA: 875 SQ FT
  - MAX OCCUPANCY LOAD: 8 OCC
  - CONSTRUCTION TYPE: TYPE V
  - BUILDING HEIGHT: 14'-6"
  - CONSTRUCTION COST: $367,000

**BUSINESS SPRINKLERED**

- **PER FFPC 101, 2007 EDITION**
  - MAX COMMON PATH OF TRAVEL ALLOWED: 100'-0"
  - COMMON PATH OF TRAVEL AS DESIGNED: 20'-0"
  - MAX DEAD END ALLOWED: 50'-0"
  - DEAD END AS DESIGNED: 20'-0"
  - MAX TRAVEL DISTANCE ALLOWED: 300'-0"
  - TRAVEL DISTANCE AS DESIGNED: 85'-0"
  - MINIMUM EXIT CORRIDOR WIDTH ALLOWED: 36"
  - EXIT CORRIDOR WIDTH PROVIDED: 38"
ADA TOUR ROUTE

1. LOCATION OF TERMINAL BOX ON ORGANIZERS' UTILITY PANEL
2. ORGANIZER PROVIDED WALKWAY MATERIAL

SHEET KEYNOTES

1. LOCATION OF TERMINAL BOX ON ORGANIZERS' UTILITY PANEL
2. ORGANIZER PROVIDED WALKWAY MATERIAL
GENERAL SHEET NOTES

1. FOR GENERAL NOTES REFER TO SHEET L-001.
2. FOR PLANT INFORMATION SEE L-101 AND L-602.

SOLAR ENVELOPE ELEVATIONS

1/4" = 1'-0"

LANDSCAPE ELEVATION SOUTH

LANDSCAPE ELEVATION EAST

DRAWN BY: CHECKED BY:

COPYRIGHT:

SHEET INFORMATION

PRODUCED BY AN AUTODESK STUDENT PRODUCT
DRAWING BLOCK TITLE

1 1/2" = 1'-0"

LANDSCAPE SYMBOLS LEGEND

- DETAILED
- SECTION
- ELEVATION
- PLAN
- NORTH ARROW
- SCALE
- UNITS

GENERAL LANDSCAPE NOTES

1. THE WORK INCLUDED UNDER THIS CONTRACT SHALL CONSIST OF ALL LANDSCAPE, TRANSPORTATION, AND RELATED TOOLS AND EQUIPMENT REQUIRED TO COMPLETE THE CONTRACTOR’S WORK. THE CONTRACTOR SHALL SUBMIT LAWN CARE, MAINTENANCE, AND RELATED SERVICES TO THE ARCHITECT FOR APPROVAL.

2. THE CONTRACTOR SHALL PROVIDE A COMPREHENSIVE PROGRAM FOR THE MAINTENANCE OF ALL EXISTING LANDSCAPES, INCLUDING PLANTS, TREES, AND SHRUBS. THE CONTRACTOR SHALL SUBMIT A DETAILED PROGRAM FOR ALL MAINTENANCE AND RELATED SERVICES.

3. THE CONTRACTOR SHALL PROVIDE A COMPREHENSIVE PROGRAM FOR THE MAINTENANCE OF ALL EXISTING LANDSCAPES, INCLUDING PLANTS, TREES, AND SHRUBS. THE CONTRACTOR SHALL SUBMIT A DETAILED PROGRAM FOR ALL MAINTENANCE AND RELATED SERVICES.

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LANDSCAPE SYMBOLS LEGEND

- DETAILED
- SECTION
- ELEVATION
- PLAN
- NORTH ARROW
- SCALE
- UNITS

PROJECT NOTES

1. REFER TO THE DRAWINGS FOR THE LOCATION OF PROPERTY AND RELATED TOOLS AND EQUIPMENT REQUIRED TO COMPLETE THE CONTRACTOR’S WORK. THE CONTRACTOR SHALL SUBMIT LAWN CARE, MAINTENANCE, AND RELATED SERVICES TO THE ARCHITECT FOR APPROVAL.

2. THE CONTRACTOR SHALL PROVIDE A COMPREHENSIVE PROGRAM FOR THE MAINTENANCE OF ALL EXISTING LANDSCAPES, INCLUDING PLANTS, TREES, AND SHRUBS. THE CONTRACTOR SHALL SUBMIT A DETAILED PROGRAM FOR ALL MAINTENANCE AND RELATED SERVICES.

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LAUNCH DATE: 15/08/23

REFERENCES

- A.A.A. ARCHITECTS
- M.M. CONSULTANTS
- O.O. CONTRACTORS

COORDINATE ALL WORK WITH EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO IRRIGATION PIPES, LANDSCAPE FEATURE, AND UNIVERSITIES. THE CONTRACTOR SHALL PROVIDE THE EXISTING PREMISES AND TAKE NOTE OF EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

THE CONTRACTOR SHALL REMOVE FROM THE SITE ALL DEBRIS AND UNSUITABLE MATERIALS GENERATED BY HIS OPERATIONS. THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AND INSURE THAT NO PONDING OF WATER OCCURS. THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AND INSURE THAT NO PONDING OF WATER OCCURS.
1. FOR GENERAL NOTES REFER TO SHEET L-100.

2. WATER DELIVERY
   2A. TO WS1 ON SUNDAY, DAY 1, AT 8:00 AM REQUEST 1,000 GALLONS. TANK OPENING EXCEEDS 4" MINIMUM REQUIREMENT WITH 12" CLEARANCE.
   2B. TO LS1 ON SUNDAY, DAY 1, AT 8:00 AM REQUEST 500 GALLONS INTO OPEN REFLECTING POOL. IF REFLECTING POOL NOT COMPLETED, DELIVER 500 GALLONS TO WW1 FOR HOLDING. UPON COMPLETION OF REFLECTING POOL, WATER WILL BE PUMPED FROM WW1 TO LS1.

3. WATER REMOVAL
   3A. FROM WW1 ON MONDAY, DAY 20, REMOVE 1,000 GALLONS. TANK OPENING EXCEEDS 4" MINIMUM REQUIREMENT.
   3B. FROM LS1 ON MONDAY, DAY 20, REMOVE 500 GALLONS FROM OPEN REFLECTING POOL.

4. PER RULE 9-1C, ALL WATER TANKS ARE FULLY SHADED. EACH CYLINDRICAL COVER CONTAINS A WATER TANK WHICH IS SHADED BY THE CONTAINER.

5. FOR MORE INFORMATION ON WATER TANKS SEE SHEET L-501

6. SEE SHEET L-102 FOR LANDSCAPE PLANTING PLAN

7. FOR BENCH DETAILS SEE SHEET S-526.

GENERAL SHEET NOTES

REFERENCE KEYNOTES

06 16 00 D12 1/2" EXTERIOR GRADE PLYWOOD

33 16 13 60" DIA STORM UTILITY DRAINAGE

33 41 13 UTILITY TRENCH DRAIN

26 56 26 A.1 SOLAR POWERED POST LIGHTING

SHEET KEYNOTES

1. BENCH TYPE 'B' WITH A LENGTH OF 8'-0"

2. BENCH TYPE 'A' WITH A LENGTH OF 20'-0"

3. BENCH TYPE 'B' WITH A LENGTH OF 12'-0"

4. SOLAR HOT WATER TUBES

LANDSCAPE PLAN L-101
GENERAL SHEET NOTES

1. REFER TO SHEET L-001 FOR GENERAL LANDSCAPE NOTES.

2. ALL PLANT MATERIAL SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION AND WILL BE REJECTED IF NOT IN ACCORDANCE WITH INDUSTRY STANDARDS. PLANTS SHALL BE REJECTED IF PLANTS ARE DAMAGED, DEFECTIVE, INJURED, OR INFESTED. PLANTS WILL NOT BE INSTALLED PRIOR TO INSTALLATION.

3. THE PLANT COUNT IS FOR THE CONTRACTOR. IN CASE OF A DISCREPANCY WITH THE PLAN, THE PLANT COUNT WILL GOVERN.

4. ALL WORK SHALL BE PERFORMED BY PERSONNEL FAMILIAR WITH THIS TYPE OF WORK AND UNDER THE SUPERVISION OF A QUALIFIED PLANTING FOREMAN.

5. ALL PLANTS ARE TO BE DELIVERED TO SITE PRIOR TO PLANTING.

6. VINES AND THEIR LOCATIONS SHOWN ON THE PLANTING PLAN WILL BE SECURED LOOSELY WITH PLASTIC PLANT TIES. DO NOT STAPLE VINES DIRECTLY TO FENCES OR WALLS.

7. THE LANDSCAPE CONTRACTOR SHALL MAKE NO CHANGES TO THE PLANTING PLAN WITHOUT THE CONSENT OF THE LANDSCAPE ARCHITECT.

8. THE CONTRACTOR SHALL GUARANTEE ALL NEW PLANTINGS FOR SIX (6) MONTHS. THE GUARANTEE PERIOD BEGINS AFTER THE FINAL INSPECTION AND THE PLANTING HAS BEEN APPROVED.

9. IT IS UNLAWFUL FOR ANY PERSON, VEHICLE, MACHINERY OR BUILDING FLUIDS) DURING CONSTRUCTION OF STRUCTURES ON THE PARCEL.

10. THE CONTRACTOR SHALL GUARANTEE ALL NEW PLANTINGS FOR SIX (6) MONTHS. THE GUARANTEE PERIOD BEGINS AFTER THE FINAL INSPECTION AND THE PLANTING HAS BEEN APPROVED.

11. ALL PLANT MATERIALS THAT DIE OR ARE DAMAGED SHALL BE REPLACED AS SOON AS POSSIBLE.

LEGEND

- *NOTE:* PRODUCED BY AN AUTODESK STUDENT PRODUCT

- *NOTE:* Image of landscape planting plan with plant names and quantities listed in the legend.
WATER TANK COVER

GENERAL SHEET NOTES
1. FOR GENERAL NOTES REFER TO SHEET S-001.
2. FOR STRUCTURAL ELEVATIONS REFER TO SHEETS S-201 AND S-202.
3. FOR STRUCTURAL SECTIONS REFER TO SHEET S-301.

REFERENCE KEYNOTES
06 16 00.D12 3/4" EXTERIOR GRADE PLYWOOD
06 16 00.D13 PUBLIC STORM UTILITY DRAINAGE DIPS IN PLANTED
06 16 00.D13 ABOVEGROUND WATER UTILITY STORAGE TANKS
06 11 00.D2 5/8" EXTERIOR GRADE PLYWOOD
06 05 23.T0 GARDNER BINDER 48 IN NATURAL NYLON HEAVY-DUTY CABLE TIES

1. FOR GENERAL NOTES REFER TO SHEET S-001.
2. FOR STRUCTURAL ELEVATIONS REFER TO SHEETS S-201 AND S-202.
3. FOR STRUCTURAL SECTIONS REFER TO SHEET S-301.

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3. FOR STRUCTURAL SECTIONS REFER TO SHEET S-301.

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3. FOR STRUCTURAL SECTIONS REFER TO SHEET S-301.

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3. FOR STRUCTURAL SECTIONS REFER TO SHEET S-301.

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06 11 00.D2 5/8" EXTERIOR GRADE PLYWOOD
06 05 23.T0 GARDNER BINDER 48 IN NATURAL NYLON HEAVY-DUTY CABLE TIES

1. FOR GENERAL NOTES REFER TO SHEET S-001.
2. FOR STRUCTURAL ELEVATIONS REFER TO SHEETS S-201 AND S-202.
3. FOR STRUCTURAL SECTIONS REFER TO SHEET S-301.
GENERAL STRUCTURAL NOTES

1. LIGHT-GAUGE STEEL FRAMING: CONFORM TO ALL DRAWING SPECIFICATIONS AND CONTRACTORS LEVELS OF DETAIL.

2. LIGHT-GAUGE STEEL TO STRUCTURAL STEEL: FOR 3-5/8" TRACK, USE ONE (1) PIN AT 16" O.C. STAGGERED. FOR 6" TRACK, USE TWO (2) PINS AT 16" O.C. AT STUDS.

3. PROVIDE HARDENED WASHERS CONFORMING TO ASTM F436 AND PLACE UNDER THE PART BEING INSTALLED DURING THE WORK SHIFT. FASTENER COMPONENTS THAT ARE NOT INCORPORATED INTO THE MATERIALS SHOWN IN THE SHEET DRAWING, SHEET DRAWING DETAILS OR SHEET DRAWING HIDDEN VIEWS MAY REQUIRE HARDSER WASHERS.

4. PROVIDE NUTS THAT ARE CUSTOMER SPECIFIED AND INCLUDE A TIGHTENING TORQUE NOTING PER THE MATERIALS SHOWN IN THE SHEET DRAWING, SHEET DRAWING DETAILS OR SHEET DRAWING HIDDEN VIEWS.

5. BOLTS SHALL BE PLACED IN ALL HOLES, WITH WASHERS POSITIONED AS REQUIRED AND TURNED.

6. DO NOT REUSE OR RETIGHTEN BOLTS WHICH HAVE BEEN FULLY TIGHTENED. USE ONLY NON-REUSABLE BOLTS ON DRAWINGS.

7. CLEANING AND LUBRICATION OF ASTM F1852 TWIST-OFF-TYPE TENSION-CONTROL BOLTS IS NOT USED, YOU MUST SHOW THAT THERE IS NO OVERTURNING, UPLIFTING OR SLIDING WITH A SAFETY FACTOR.

8. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A992 (50,000 PSI).

9. PROVIDE MINIMUM TWO ADDITIONAL PRINTS FOR APPROVAL. ONLY CLOUDED SUBMITTALS FOR SPECIAL STRUCTURAL, LOAD-CARRYING ITEMS THAT REQUIRE BY CODES OR STANDARDS. SUBMITTALS FOR SPECIAL STRUCTURAL, LOAD-CARRYING ITEMS THAT REQUIRE BY CODES OR STANDARDS.

10. THE INSTALLATION OF THESE ITEMS AT ALL TIMES. SAFETY AND COMPLIANCE WITH OSHA AND LABOR LAWS ARE THE ABSOLUTE RESPONSIBILITY OF THE CONTRACTOR.

11. CONTRACTORS WHO DISCOVER DISCREPANCIES, OMISSIONS OR VARIATIONS IN THE CONTRACT DOCUMENTS ARE REQUIRED, THEN SUBMIT TWO ADDITIONAL SIGNED AND SEALED PRINTS FOR APPROVAL.

12. THE CONTRACTOR SHALL PROTECT ADJACENT PROPERTY. HIS/HER AREA OF EXPERTISE.

13. THE FOLLOWING NOTICES TO THE BOARD OF PROFESSIONAL REGULATION FORBIDS HIM/HER FROM ASSUMING RESPONSIBILITY OUTSIDE HIS/HER AREA OF EXPERTISE.

14. CHECKING OF THE SUBMITTAL BY THE STRUCTURAL ENGINEER SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR DEVIATIONS FROM THE CONTRACT DOCUMENTS AND FROM ERRORS OR OMISSIONS IN THE SUBMITTAL.

15. THE DESIGNER MUST BE DELEGATED TO THE CONSTRUCTION ENGINEER AND THAT THE DELEGATED ENGINEER HAS UNDERSTOOD THE DESIGN INTENT AND HAS USED SPECIFIED STRUCTURAL CRITERIA. NO DETAILED CHECK OF CALCULATIONS OR DRAWINGS IS REQUIRED.

16. THE CONTRACTOR SHALL SUBMIT TO THE BUILDING OFFICIAL A SET OF PRINTS FOR REVIEW AND APPROVAL. CHECKING OF THE SUBMITTAL BY THE STRUCTURAL ENGINEER SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR DEVIATIONS FROM THE CONTRACT DOCUMENTS AND FROM ERRORS OR OMISSIONS IN THE SUBMITTAL.

17. THE CONTRACTOR SHALL SUBMIT TO THE BUILDING OFFICIAL A SET OF PRINTS FOR REVIEW AND APPROVAL. CHECKING OF THE SUBMITTAL BY THE STRUCTURAL ENGINEER SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR DEVIATIONS FROM THE CONTRACT DOCUMENTS AND FROM ERRORS OR OMISSIONS IN THE SUBMITTAL.
1. For general notes refer to Sheet S-001.
2. For deck foundation plan (not shown for clarity) refer to Sheet S-111.
3. For foundation details refer to Sheet S-501.

Temporary Foundation:
5/8" x 48" deep galvanized earth anchor with single 6" galvanized steel strap.
Secure to structural beam using 1/2" bolt.
Capacity: 3,150 lbs.

(for Miami only)

1. For general notes refer to Sheet S-001.
2. For deck foundation plan (not shown for clarity) refer to Sheet S-111.
3. For foundation details refer to Sheet S-501.
1. For general notes refer to Sheet S-001.
2. For deck framing plans (not shown for clarity) refer to Sheet S-112.
3. All light-gauge stud framing shall be 16 gauge.
4. All light-gauge tracks and clip angles shall be 14 gauge.

REFERENCE KEYNOTES

SHEET KEYNOTES
1. 3/4" CDX plywood sheathing over 6" metal stud framing at 24" O.C. (screws at 12" O.C. at perimeter).

FLOOR FRAMING PLAN

COLUMN SCHEDULE

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<th>COLUMN</th>
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TYPICAL SECTION

TS 6x6x0.25 HOLLOW STEEL SECTION
TS 10x3x0.1875 HOLLOW STEEL SECTION
6" METAL STUD FRAMING
3/4" EXTERIOR GRADE PLYWOOD SHEATHING
600S162-54 @ 16" O.C.

PRODUCED BY AN AUTODESK STUDENT PRODUCT
S-103

GENERAL SHEET NOTES
1. FOR GENERAL NOTES REFER TO SHEET S-001.
2. ALL LIGHT-GAUGE STUD FRAMING SHALL BE 16 GAUGE.
3. ALL LIGHT-GAUGE TRACKS AND CLIP ANGLES SHALL BE 14 GAUGE.

REFERENCE KEYNOTES
05 12 39 B14 STRUCTURAL STEEL FRAMING
05 12 39 B22 STRUCTURAL STEEL FRAMING
05 12 73 L46 HOLLOW STRUCTURAL STEEL SECTION
05 12 73 L264 HOLLOW STRUCTURAL STEEL SECTION
05 12 76 M5 HOLLOW STRUCTURAL STEEL SECTION

SHEET KEYNOTES
1. 5/8" CDX PLYWOOD SHEATHING OVER 6" METAL STUD FRAMING AT 24" O.C. WITH 1 1/4" SCREWS @ 12" O.C. (6" AT PERIMETER).
2. DOUBLE 10" METAL STUDS 1000S162-54 @ 24" O.C.

WIND ZONES
A.T.S.

ROOFING PRESSURES
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COLUMN SCHEDULE

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TEAM NAME: perFORM[ED] performance House
PROJECT: FLORIDA INTERNATIONAL UNIVERSITY MODESTO A. MADIQUE CAMPUS COLLEGE OF ARCHITECTURE + THE ARTS DEPARTMENT OF ARCHITECTURE

CONTACT: Marilys.Nepomechie@fiu.edu
http://solardecathlon.fiu.edu

SOLAR DECATHLON 2011
1. FOR GENERAL NOTES REFER TO SHEET S-511.
2. FOR HOUSE FLOOR FRAMING PLAN (NOT SHOWN FOR CLARITY) REFER TO SHEET S-103.
3. FOR FOUNDATION DETAILS REFER TO SHEET S-501.
4. FOR ADDITIONAL INFORMATION, REFER TO LANDSCAPE DRAWINGS.
1. For general notes refer to sheet S-001.
2. For house floor framing plan (not shown for clarity) refer to sheet S-103.
3. For additional information, refer to landscape drawings.

Reference Keynotes:

06 11 00.B9 5/4 x 6 Pressure Treated Decking
1. For general notes refer to Sheet S-001.
2. For house foundation plan refer to Sheet S-101.
3. For deck foundation plan refer to Sheet S-111.

**GENERAL SHEET NOTES**

**REFERENCE KEYNOTES**

**SHEET KEYNOTES**

1. 16" x 16" x 1/2" plywood, to adjust for height.
2. Two (2) 8" x 4" x 16" CMU blocks.
3. Two (2) 8" x 8" x 16" CMU blocks.
4. Two (2) layers 24" x 24" of 3/4" exterior grade plywood.

**FOUNDATION PLAN DETAILS**

**A1**

**A2**

**A4**

**A2**

**D2**

**D2 STRUCTURAL FOUNDATION DETAIL**
1. FOR GENERAL NOTES REFER TO SHEET S-001.
2. FOR FLOOR FRAMING PLAN REFER TO SHEET S-103.
3. ALL LIGHT-GAUGE STUD FRAMING SHALL BE 16 GAUGE.
4. ALL LIGHT-GAUGE TRACKS AND CLIP ANGLES SHALL BE 14 GAUGE.
5. LIGHT-GAUGE STEEL FRAMING TO BE SECURED TO STRUCTURAL STEEL USING 0.145" DIA. POWER ACTUATED FASTENERS.

REFERENCE KEYNOTES

05 05 23.H1.1 3/8" x 8 1/2" x 2'-2" STEEL PLATE
05 12 39.B14 C 8x18.75x3/8" STRUCTURAL STEEL FRAME
05 12 39.B10 C 10x15.3 STRUCTURAL STEEL FRAMING
05 12 73.L46 TS 6x6x0.25 HOLLOW STEEL SECTION
05 12 73.L267 TS 10x3x0.1875 HOLLOW STEEL SECTION
05 41 00.A8 6" METAL STUD FRAMING 600S162-54 @ 24" O.C.

SHEET KEYNOTES

1. BOLT DOUBLE C-CHANNEL COLUMNS AT 5 LOCATIONS, EQUALLY SPACED NOT TO EXCEED 48" O.C. WITH 3/4" THROUGH BOLTS, SNUG-TIGHTENED, REFER TO SHEET S-504.

GENERAL SHEET NOTES

3/16" = 1'-0"

3/16" = 1'-0"
1. For general notes refer to sheet S-001.
2. For roof framing plan refer to sheet S-104.
3. All light-gauge stud framing shall be 16 gauge.
4. All light-gauge tracks and clip angles shall be 14 gauge.
5. Light-gauge steel framing to be secured to structural steel using 0.145" dia. power actuated fasteners.
GENERAL SHEET NOTES
1. FOR GENERAL NOTES REFER TO SHEET S-001.
2. FOR STRUCTURAL SECTIONS REFER TO SHEET S-301.

REFERENCE KEYNOTES
01 53 30  TEMPORARY FOUNDATION
05 05 23.H1.1  3/8" x 8 1/2" x 2'-2" STEEL PLATE
05 12 56.G30  C 6x8.2 STRUCTURAL STEEL FRAMING
05 12 73.L235  TS 6x3x0.3125 HOLLOW STEEL SECTION
05 12 73.L267  TS 10x3x0.1875 HOLLOW STEEL SECTION
05 12 39.B10  C 10x15.3 STRUCTURAL STEEL FRAMING
05 12 39.B14  C 8x18.75x3/8" STRUCTURAL STEEL FRAMING
05 12 39.B22  C 6x8.2 STRUCTURAL STEEL FRAMING
05 12 39.B14  C 8x18.75x3/8" STRUCTURAL STEEL FRAMING

SHEET KEYNOTES
1. BOLT DOUBLE CHANNEL COLUMNS AT 5 LOCATIONS, EQUALLY SPACED NOT TO EXCEED 48" O.C. WITH 3/4" THROUGH BOLTS, SNUG-TIGHTENED. PROVIDE 3/8" x 3" H x 8" W STEEL PLATE SPACER AT LOCATION OF EACH BOLT.
2. PROVIDE 3/4" BOLT FOR LIFTING. REFER TO SHEET S-508.

MARK DATE DESCRIPTION

S-504
STRUCTURAL SECTION DETAILS
SHEET NUMBER
SHEET INFORMATION
U.S. DEPARTMENT OF ENERGY
SOLAR DECATHLON 2011
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GENERAL SHEET NOTES
1. FOR GENERAL NOTES REFER TO SHEET S-001.
2. FOR STRUCTURAL SECTIONS REFER TO SHEET S-301.

REFERENCE KEYNOTE
01 53 30  TEMPORARY FOUNDATION
05 05 23.H1.1  3/8" x 8 1/2" x 2'-2" STEEL PLATE
05 12 56.G30  C 6x8.2 STRUCTURAL STEEL FRAMING
05 12 73.L235  TS 6x3x0.3125 HOLLOW STEEL SECTION
05 12 73.L267  TS 10x3x0.1875 HOLLOW STEEL SECTION
05 12 39.B10  C 10x15.3 STRUCTURAL STEEL FRAMING
05 12 39.B14  C 8x18.75x3/8" STRUCTURAL STEEL FRAMING
05 12 39.B22  C 6x8.2 STRUCTURAL STEEL FRAMING

SHEET KEYNOTE
1. BOLT DOUBLE CHANNEL COLUMNS AT 5 LOCATIONS, EQUALLY SPACED NOT TO EXCEED 48" O.C. WITH 3/4" THROUGH BOLTS, SNUG-TIGHTENED. PROVIDE 3/8" x 3" H x 8" W STEEL PLATE SPACER AT LOCATION OF EACH BOLT.
2. PROVIDE 3/4" BOLT FOR LIFTING. REFER TO SHEET S-508.

1" = 1'-0"
STRUCTURAL SECTION DETAILS

1. FOR GENERAL NOTES REFER TO SHEET S-001.
2. FOR STRUCTURAL SECTIONS REFER TO SHEET S-301.

REFERENCE KEYNOTES

01 53 30 05 05 23.H1.1
TEMPORARY FOUNDATION
3/8" x 8 1/2" x 2'-2"
STEEL PLATE

05 12 39.B10
C 10x15.3 STRUCTURAL STEEL FRAMING

05 12 39.B14
C 8x18.75x3/8" STRUCTURAL STEEL FRAMING

05 12 73.L267
TS 10x3x0.1875 HOLLOW STEEL SECTION

SHEET KEYNOTES

1. BOLT DOUBLE C-CHANNEL COLUMNS AT 3 LOCATIONS, EQUALLY SPACED
NOT TO EXCEED 48" O.C. WITH 3/4" THROUGH BOLTS, SNUG-TIGHTENED,
REFER TO SHEET S-504.

GENERAL SHEET NOTES

1. FOR GENERAL NOTES REFER TO SHEET S-001.
2. FOR STRUCTURAL SECTIONS REFER TO SHEET S-301.
1. FOR GENERAL NOTES REFER TO SHEET S-001.
2. FOR STRUCTURAL SECTIONS REFER TO SHEET S-301.

GENERAL SHEET NOTES

REFERENCE KEYNOTES

1. "STEEL PLATE" at 5 locations, equally spaced, with 3/4" through bolts, snug-tightened. Refer to Sheet S-504.
2. PROVIDE 3/4" BOLT FOR LIFTING. REFER TO SHEET S-508.

REFERENCE KEYNOTES

1. BOLT DOUBLE C-CHANNEL COLUMNS AT 5 LOCATIONS, EQUALLY SPACED
2. PROVIDE 3/4" BOLT FOR LIFTING.
3. REFER TO SHEET S-508.

05 05 23.H1.2 3/8" x 6" x 1'-0" STEEL PLATE
05 05 23.H1.3 3/8" x 4" x 6" STEEL PLATE
05 12 39.B14 C 8X18.75X3/8" STRUCTURAL STEEL FRAMING
05 12 39.B22 C 6X8.2 STRUCTURAL STEEL FRAMING
05 12 56.G30 MC 7X19.1 C-CHANNEL
05 12 73.L235 TS 6X3X0.3125 Hollow Steel Section
05 12 73.L264 TS 6X2X0.125 Hollow Steel Section
05 12 76.M5 W 6X12 STRUCTURAL STEEL FRAMING

SHEET KEYNOTES

1. "STEEL PLATE" AT 5 LOCATIONS, EQUALLY SPACED
2. PROVIDE 3/4" BOLT FOR LIFTING.
3. REFER TO SHEET S-508.

05 05 23.H1.2 3/8" x 6" x 1'-0" STEEL PLATE
05 05 23.H1.3 3/8" x 4" x 6" STEEL PLATE
05 12 39.B14 C 8X18.75X3/8" STRUCTURAL STEEL FRAMING
05 12 39.B22 C 6X8.2 STRUCTURAL STEEL FRAMING
05 12 56.G30 MC 7X19.1 C-CHANNEL
05 12 73.L235 TS 6X3X0.3125 Hollow Steel Section
05 12 73.L264 TS 6X2X0.125 Hollow Steel Section
05 12 76.M5 W 6X12 STRUCTURAL STEEL FRAMING

CONTACTS

SOLAR DECATHLON 2011
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SHEET INFORMATION

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GENERAL SHEET NOTES
1. FOR GENERAL NOTES REFER TO SHEET S-001.
2. FOR STRUCTURAL SECTIONS REFER TO SHEET S-301.

REFERENCE KEYNOTES
01 53 30 SPRING FOUNDATION 1 3/8" x 8 1/2" x 53" STEEL PLATE C-400 STRUCTURAL STEEL FRAMING
01 53 30 SPRING FOUNDATION 1 3/8" x 8 1/2" x 53" STEEL PLATE C-400 STRUCTURAL STEEL FRAMING
05 05 23.H1.1 3/8" x 8 1/2" x 2'-2" STEEL PLATE C-400 STRUCTURAL STEEL FRAMING
05 05 23.H1.1 3/8" x 8 1/2" x 2'-2" STEEL PLATE C-400 STRUCTURAL STEEL FRAMING
05 12 39.B10 C 10x15.3 STRUCTURAL STEEL FRAMING
05 12 39.B14 C 8x18.75x3/8" STRUCTURAL STEEL FRAMING
05 12 39.B22 C 6x8.2 STRUCTURAL STEEL FRAMING
05 12 56.G30 MC 7x19.1 C-CHANNEL
05 12 73.L235 TS 6x3x0.3125 HOLLOW STEEL SECTION
05 12 76.M5 W 6x12 STRUCTURAL STEEL FRAMING

SHEET KEYNOTES
1. BOLT DOUBLE C-CHANNEL COLUMNS AT 5 LOCATIONS, EQUALLY SPACED NOT TO EXCEED 48" O.C. WITH 3/4" THROUGH HOLE. INSERT SNUG-TIGHTENED. PROVIDE 3/8" x 3" H x 8" W STEEL PLATE SPACER AT LOCATION OF EACH BOLT.
2. PROVIDE 3/4" BOLT FOR LIFTING. REFER TO SHEET S-508.

GENERAL SHEET NOTES
1. FOR GENERAL NOTES REFER TO SHEET S-001.
2. FOR STRUCTURAL SECTIONS REFER TO SHEET S-301.

REFERENCE KEYNOTEs
01 53 30 SPRING FOUNDATION 1 3/8" x 8 1/2" x 53" STEEL PLATE C-400 STRUCTURAL STEEL FRAMING
01 53 30 SPRING FOUNDATION 1 3/8" x 8 1/2" x 53" STEEL PLATE C-400 STRUCTURAL STEEL FRAMING
05 05 23.H1.1 3/8" x 8 1/2" x 2'-2" STEEL PLATE C-400 STRUCTURAL STEEL FRAMING
05 05 23.H1.1 3/8" x 8 1/2" x 2'-2" STEEL PLATE C-400 STRUCTURAL STEEL FRAMING
05 12 39.B10 C 10x15.3 STRUCTURAL STEEL FRAMING
05 12 39.B14 C 8x18.75x3/8" STRUCTURAL STEEL FRAMING
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SHEET KEYNOTES
1. BOLT DOUBLE C-CHANNEL COLUMNS AT 5 LOCATIONS, EQUALLY SPACED NOT TO EXCEED 48" O.C. WITH 3/4" THROUGH HOLE. INSERT SNUG-TIGHTENED. PROVIDE 3/8" x 3" H x 8" W STEEL PLATE SPACER AT LOCATION OF EACH BOLT.
2. PROVIDE 3/4" BOLT FOR LIFTING. REFER TO SHEET S-508.
1. PROVIDE FOUR (4) 3/4" BOLTS WELDED TO FACE OF C-CHANNEL.
2. PROVIDE 3/4" BOLT FOR LIFTING. REFER TO SHEET S-504.

- FOR GENERAL NOTES REFER TO SHEET S-001.
- FOR STRUCTURAL SECTIONS REFER TO SHEET S-301.

- STRUCTURAL DETAIL 1
- STRUCTURAL DETAIL 2
- STRUCTURAL DETAIL 3
- STRUCTURAL DETAIL 4
- STRUCTURAL DETAIL 5

- 3" = 1'-0"
- 6" = 1'-0"
GENERAL SHEET NOTES
1. FOR GENERAL NOTES REFER TO SHEET S-001.
2. ALL PLANTS SHALL REMAIN IN POTS.

REFERENCE KEYNOTES
01 53 30  TEMPORARY FOUNDATION
04 11 00 2" PRESSURE TREATED
07 54 23  THERMO PLASTIC POLYOLEFIN ROOFING
09 29 00 1" MAGNESIUM WALL BOARD
32 93 33  PLANTS
32 11 16  FOUNTAIN PUMP
22 52 16  THRESHOLD
22 11 16  FINISHED FLOOR

SHEET KEYNOTES
01 53 30  TEMPORARY FOUNDATION
04 11 00 2" PRESSURE TREATED
07 54 23  THERMO PLASTIC POLYOLEFIN ROOFING
09 29 00 1" MAGNESIUM WALL BOARD
32 93 33  PLANTS
32 11 16  FOUNTAIN PUMP
22 52 16  THRESHOLD
22 11 16  FINISHED FLOOR

C1
POOL SECTION
1 1/2" = 1'-0"

A1
PLANTER SECTION
1 1/2" = 1'-0"
DECK MODULE DETAILS

GENERAL SHEET NOTES
1. FOR GENERAL NOTES REFER TO SHEET S-001.
2. FOR HOUSE FLOOR FRAMING PLAN (NOT SHOWN FOR CLARITY) REFER TO SHEET S-103.
3. FOR FOUNDATION DETAILS REFER TO SHEET S-501.
4. FOR ADDITIONAL INFORMATION, REFER TO LANDSCAPE DRAWINGS.

REFERENCE KEYNOTES

SHEET KEYNOTES

DECK MODULE DETAILS

06 11 00.D3  2x4 WOOD FRAMING
06 11 00.F2  2x6 WOOD FRAMING
06 11 00.B9  1x6 TREATED

1. FOR GENERAL NOTES REFER TO SHEET S-001.
2. FOR HOUSE FLOOR FRAMING PLAN (NOT SHOWN FOR CLARITY) REFER TO SHEET S-103.
3. FOR FOUNDATION DETAILS REFER TO SHEET S-501.
4. FOR ADDITIONAL INFORMATION, REFER TO LANDSCAPE DRAWINGS.

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S-513

DECK MODULE DETAILS

SHEET INFORMATION

U.S. DEPARTMENT OF ENERGY
SOLAR DECATHLON 2011
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GENERAL SHEET NOTES
1. FOR GENERAL NOTES REFER TO SHEET S-001.

REFERENCE KEYNOTES
06 11 00.D1 2x4
06 11 00.B9 1x6 TREATED
06 16 00.D10 5/8" EXTERIOR GRADE PLYWOOD
08 71 00.B13 4 INCH BROAD LOOSE PIN HINGE ZINC PLATED FINISH

SHEET KEYNOTES

DECK DETAILS

C1  BENCH SECTION
C2  BENCH DETAIL TYPE A
A3  BENCH DETAIL TYPE B

A3  BENCH DETAIL TYPE B
GENERAL SHEET NOTES
1. FOR GENERAL NOTES REFER TO SHEET S-001.
2. FOR FLOOR FRAMING PLAN REFER TO SHEET S-102.
3. FOR ROOF FRAMING PLAN REFER TO SHEET S-103.
5. ALL LIGHT-GAUGE STUD FRAMING SHALL BE 16 GAUGE.
6. LIGHT-GAUGE TRACKS AND CLIP ANGLES SHALL BE 14 GAUGE.
7. LIGHT-GAUGE STEEL FRAMING TO BE SECURED TO STRUCTURAL STEEL USING 0.145" DIA. POWER ACTUATED FASTENERS.

REFERENCE KEYNOTES
1. 14 GAUGE CLIP ANGLE 2-1/2" x 2-1/2" x 5"
2. THREE (3) No. 10 SELF-TAPPING SCREWS
3. THREE (3) 0.145" DIA. POWER ACTUATED FASTENERS
4. 8" METAL STUD FRAMING BOX BEAM; USE TWO (2) 800S162-54 STUDS AND TWO (2) 800S162-68 TRACKS.
5. No. 10 SELF-TAPPING SCREWS @ 8" O.C.
6. 0.145" DIA. POWER ACTUATED FASTENERS @ 9" O.C.
7. 14 GAUGE CLIP ANGLE 1-1/2" x 1-1/2"

SHEET KEYNOTES
1. LIGHT-GAUGE FRAMING DETAILS
2. USE TS 6x6x0.25 HOLLOW STEEL SECTION
3. TS 6x3x0.3125 HOLLOW STEEL SECTION
4. TS 10x3x0.1875 HOLLOW STEEL SECTION
5. 6" METAL STUD FRAMING 600S162-54 @ 24" O.C.
6. 8" METAL STUD FRAMING 800S162-54 @ 24" O.C.
7. 10" METAL STUD FRAMING 1000S162-54 @ 24" O.C.
8. 5/8" EXTERIOR GRADE PLYWOOD SHEATHING.
9. 3/4" EXTERIOR GRADE PLYWOOD SHEATHING.

LIGHT-GAUGE FRAMING DETAILS
GENERAL SHEET NOTES
1. FOR GENERAL NOTES REFER TO SHEET S-001.
2. STRUCTURE IS INTENDED TO BE TWO SEPARATE 'PODS' EACH STRUCTURALLY INDEPENDENT OF THE OTHER.
3. ALL STEEL CONNECTIONS WITHIN EACH 'POD' SHELL BE WELDED.
4. LIMIT BOLTED CONNECTIONS TO JOINT BETWEEN 'PODS' AND CANOPY FRAMING.

STRUCTURAL FRAMING ISOMETRIC

1. FOR GENERAL NOTES REFER TO SHEET S-001.
2. STRUCTURE IS INTENDED TO BE TWO SEPARATE 'PODS' EACH STRUCTURALLY INDEPENDENT OF THE OTHER.
3. ALL STEEL CONNECTIONS WITHIN EACH 'POD' SHELL BE WELDED.
4. LIMIT BOLTED CONNECTIONS TO JOINT BETWEEN 'PODS' AND CANOPY FRAMING.
FOR GENERAL NOTES REFER TO SHEET A-001.
FOR ADDITIONAL INFORMATION ON DECK AND PLANTINGS, REFER TO LANDSCAPE DRAWINGS.
FOR INFORMATION ON WATER TANKS, REFER TO SHEETS L-102 AND P-101.
GENERAL SHEET NOTES

1. FOR GENERAL NOTES REFER TO SHEET A-001.

SHEET KEYNOTES

1. WINDOW ABOVE.

FLOOR PLAN

1/2" = 1'-0"
1. FOR GENERAL NOTES REFER TO SHEET L-001.
2. ALL PLANTS SHALL REMAIN IN POTS.

**T.O. STEEL**
12'-4" (3.74 m)

**T.O. PARAPET**
14'-4" (4.34 m)

**T.O. FRAME**
12'-4" (3.74 m)

**Roof Details**

- **A1** Vent Section
- **A2** Vent Detail
- **A3** Roof Connection Plan
- **A4** Roof Drain Plan Detail
- **A5** Roof Drain Section Detail
- **C1** Roof Pipe Section
- **C2** Roof Connection
- **C3** Roof Pipe Section
- **C4** Roof Drain Section Detail
- **C5** Roof Drain Plan Detail

**Material Notes**

- 2.01 STRUCT STEEL. SEE STRUCTURAL DWGS.
- 2.11 FORMED METAL FABRICATIONS.
- 06 16 00.110 S1F EXTERIOR GRADE PLYWOOD.
- 06 09 00.011 3/4" PLYWOOD.
- 07 21 26 SPRAYED INSULATION.
- 07 42 13.A1 MANUFACTURED COPINGS.
- 07 54 23 THERMOPLASTIC-POLYOLEFIN ROOFING.
- 22 14 26.13 ROOF DRAINS.

**Roof Drainage**

- 07 01 16 JOINT GASKETS.
- 09 29 00.14 A5 S1F WAKAN WALLBOARD.
- 22 14 23 STORM DRAINAGE PIPING.
- 07 26 00.A1 MOISTURE BARRIER.
- 07 71 13 A5 METAL PANELS BY ALCOA.
- 07 42 13.A1 METAL PANELS BY ALCOA.
- 07 26 00.A1 MOISTURE BARRIER.
- 07 21 26 SPRAYED INSULATION.
- 07 42 13.A1 MANUFACTURED COPINGS.
- 07 54 23 THERMOPLASTIC-POLYOLEFIN ROOFING.
- 22 14 26.13 ROOF DRAINS.

**Ventilation**

- 06 16 00.010 5/8" EXTERIOR GRADE PLYWOOD.
- 06 16 00.011 3/4" PLYWOOD.
- 22 14 23 STORM DRAINAGE PIPING.
- 07 26 00.A1 MOISTURE BARRIER.
- 07 42 13.A1 MANUFACTURED COPINGS.
- 07 54 23 THERMOPLASTIC-POLYOLEFIN ROOFING.
ELEVATION NORTH

ELEVATION SOUTH

FINISHED FLOOR

GRADE LEVEL

T.O. PARAPET

T.O. STEEL

07 42 13 A1 METAL PANELS BY ALCOA
08 35 13 A4

1. NOTE: DECK NOT SHOWN FOR CLARITY: FOR DECK ELEVATIONS LANDSCAPE SHEETS

REFERENCE KEYNOTES

2.01 STRUCT STEEL. SEE STRUCTURAL DWGS

SHEET KEYNOTES

ELEVATIONS
### Door Schedule

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<thead>
<tr>
<th>MARK</th>
<th>DESCRIPTION</th>
<th>DR TYPE</th>
<th>DR SIZE</th>
<th>MANUFACTURER</th>
<th>MODEL</th>
<th>FINISH</th>
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<td></td>
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### Elevations - Folding Glass Door Type 1

**A1**

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### Elevations - Folding Glass Door Type 2

**A4**

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### Plan Details - Folding Glass Door Type 1

**D1**

### Plan Details - Folding Glass Door Type 2

**D4**

---

### Sheet Information

- **Team Name:** Performin\[D\]ance House
- **Address:** Florida International University, Modesto A. Madique Campus, College of Architecture + The Arts, Department of Architecture, PCA 386A, Miami, FL 33199
- **Contact:** Marilys.Nepomechie@fiu.edu
- **Website:** http://solardecathlon.fiu.edu

---

**Sheet Title:** Doors

**Original Publish Date:** 2011-03-22

**Author:** James W. Piersol, AIA

---

**Copyright:** None. Project is public domain.
### Window Schedule

<table>
<thead>
<tr>
<th>Mark</th>
<th>Height</th>
<th>Width</th>
<th>Quantity</th>
<th>Manufacturer</th>
<th>Model</th>
<th>Material</th>
<th>Finish</th>
<th>Panel</th>
<th>Sill</th>
<th>Jamb</th>
<th>Thickness</th>
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<td>A1-A542</td>
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<td>Head</td>
<td>Height, (2) 4'-6&quot; Head Height, (2) 7'-0&quot; Head Height</td>
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### Elevation Details - Window Type A

**Interior Elevation Details - Window Type B**
WINDOW DETAIL - LEFT & RIGHT JAMB

WINDOW DETAIL - HEAD & SILL

REFERENCE KEYNOTES

05 41 00.B6 8" CHANNEL STUD
06 11 00.D1 2X8
07 21 20 SPRAYED INSULATION
07 42 13.A1 METAL PANELS BY ALCOA
08 51 13.A2 ALUMINUM WINDOWS
08 51 13.A1 ALUMINUM SLIDING WINDOW JAMB
09 29 00.D14 5/8" MAGNUM WALLBOARD

GENERAL SHEET NOTES

PERFORM[ED] by FIU

TEAM NAME: PERFORM[ED] House
ADDRESS: P.O. BOX 386A
FLORIDA INTERNATIONAL UNIVERSITY
MODESTO A. MADIQUE CAMPUS
COLLEGE OF ARCHITECTURE + THE ARTS
DEPARTMENT OF ARCHITECTURE

CONTACT:
Marilys.Nepomechie@fiu.edu
http://solardecathlon.fiu.edu
1. Operable panels to remain in open or closed positions during public exhibit hours.

2. Reconfigurations of the operable panels will only be demonstrated during the architecture and market appeal juries and, if appropriate, the engineering and communications juries as per Appendix B-2b.

GENERAL SHEET NOTES

1/2" = 1'-0"

OPERABLE PANEL MOVEMENT DIAGRAMS

C1 OPERABLE LOUVER PANEL ELEVATIONS

B1 PANEL A - PLAN

B3 PLAN - PANEL B

B5 PLAN - PANEL C

C7 PANEL SECTION

A1 OPERABLE PANEL MOVEMENT DIAGRAMS

A5 TEAM NAME: perFORM[ED] House

ADDRESS: FLORIDA INTERNATIONAL UNIVERSITY

CONTACT: PCA 386A

MIAMI, FL 33199

WWW.SOLARDECATHLON.GOV
1. Murphy bed to remain in open or closed positions during public exhibit hours.

2. Reconfigurations of the Murphy bed will only be demonstrated during the architecture and market appeal juries and, if appropriate, the engineering and communications juries as per Appendix B-2b.

**Murphy Bed - Movement Diagrams**

1. **Open Position**
2. **Closed Position**

**Murphy Bed - Plan**

**Murphy Bed - Section**

**Murphy Bed - Elevation**
INTERIORS - CORE DETAIL PLAN - FIXTURES AND CASEWORK

1. **LIVING AREA**
- 06 41 16 PLASTIC-LAMINATE-CLAD ARCHITECTURAL CABINETS
- 08 14 23.16 PLASTIC-LAMINATE FACED WOOD DOORS
- 11 31 13.A2 RANGE BY GENERAL ELECTRIC
- 11 31 13.B2 REFRIGERATOR BY SUMMIT
- 11 31 13.B3 DISHWASHER BY GENERAL ELECTRIC
- 11 31 23.A4 WASHER/DRYER COMBO BY LG

2. **BEDROOM**
- 11 31 13.A3 RANGE BY GENERAL ELECTRIC
- 11 31 13.B2 REFRIGERATOR BY SUMMIT
- 11 31 13.B3 DISHWASHER BY GENERAL ELECTRIC
- 11 31 23.A4 WASHER/DRYER COMBO BY LG

3. **BATHROOM**
- 12 35 30.43.A1 DORMITORY CASEWORK BY BREA
- 12 36 19.A1 WOOD COUNTER TOP BY BREA
- 22 41 13.A2 WATER CLOSET BY PROFLO
- 22 41 16.16 SINK BY HOUZER
- 22 41 16.A17 WALL MOUNT SINK BY PROFLO
- 22 41 29.A2 SHOWER TRIM BY PROFLO

4. **KITCHEN**
- 06 41 16 PLASTIC-LAMINATE-CLAD ARCHITECTURAL CABINETS
- 08 14 23.16 PLASTIC-LAMINATE FACED WOOD DOORS
- 11 31 13.A2 RANGE BY GENERAL ELECTRIC
- 11 31 13.B2 REFRIGERATOR BY SUMMIT
- 11 31 13.B3 DISHWASHER BY GENERAL ELECTRIC
- 11 31 23.A4 WASHER/DRYER COMBO BY LG

5. **MECHANICAL CLOSET**
- 22 41 13.A5 WATER CLOSET BY PROFLO
- 22 41 16.16 SINK BY HOUZER
- 22 41 16.A17 WALL MOUNT SINK BY PROFLO
- 22 41 29.A2 SHOWER TRIM BY PROFLO

6. **PLUMBING AND APPLIANCE SCHEDULE**

7. **NOTES**
- Please see Sheet I-601 for plumbing and appliance schedule.

**REFERENCE KEYNOTES**

**DRAWN BY:**

**CHECKED BY:**

**COPYRIGHT:**

**PUBLIC DOMAIN**
INTERIORS - FURNISHING PLAN

1. PLEASE SEE SHEET I-601 FOR FURNITURE SCHEDULE

REFERENCE KEYNOTES

12 43 13.19 FLOOR LAMPS BY IKEA
12 46 13.A1 AREA RUG BY IKEA
12 52 19.A1 UPHOLSTERED SEATING BY IKEA
12 58 13.A1 SOFA BY IKEA
12 58 19.A1 DINING TABLE AND CHAIRS BY IKEA
12 58 23.A1 COFFEE TABLE BY IKEA

FURNITURE SCHEDULE

1. PLEASE SEE SHEET I-601 FOR FURNITURE SCHEDULE

INTERIORS - FURNISHING PLAN

1/2" = 1'-0"

12 43 13.19 FLOOR LAMPS BY IKEA
12 46 13.A1 AREA RUG BY IKEA
12 52 19.A1 UPHOLSTERED SEATING BY IKEA
12 58 13.A1 SOFA BY IKEA
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FURNITURE SCHEDULE

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INTERIORS - FURNISHING PLAN

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12 46 13.A1 AREA RUG BY IKEA
12 52 19.A1 UPHOLSTERED SEATING BY IKEA
12 58 13.A1 SOFA BY IKEA
12 58 19.A1 DINING TABLE AND CHAIRS BY IKEA
12 58 23.A1 COFFEE TABLE BY IKEA

FURNITURE SCHEDULE

1. PLEASE SEE SHEET I-601 FOR FURNITURE SCHEDULE

INTERIORS - FURNISHING PLAN

1/2" = 1'-0"

12 43 13.19 FLOOR LAMPS BY IKEA
12 46 13.A1 AREA RUG BY IKEA
12 52 19.A1 UPHOLSTERED SEATING BY IKEA
12 58 13.A1 SOFA BY IKEA
12 58 19.A1 DINING TABLE AND CHAIRS BY IKEA
12 58 23.A1 COFFEE TABLE BY IKEA

FURNITURE SCHEDULE

1. PLEASE SEE SHEET I-601 FOR FURNITURE SCHEDULE

INTERIORS - FURNISHING PLAN
INTERIOR ELEVATION LIVING ROOM-SOUTH

6.03 KITCHEN CABINETRY TOE KICK 6'-0" HIGH COMPLYING WITH ADA
6.04 KITCHEN COUNTER TOP AT 2'-10" HEIGHT FROM FINISHED FLOOR

FINISHED FLOOR

1/2" = 1'-0"

INTERIOR ELEVATION KITCHEN- EAST

INTERIOR ELEVATION KITCHEN- SOUTH

FINISHED FLOOR
INTERIOR DETAIL SECTION @ KITCHEN/BATHROOM
WALL-MIDDLE

INTERIOR DETAIL SECTION @ KITCHEN/BATHROOM
WALL-HEAD

REFERENCE KEYNOTES

05 41 00.B5 6" CHANNEL STUD
05 41 00.BE DECORATIVE METAL BY
WILSONART
06 11 00.G1 2X8
06 16 00.D14 3/4" WOOD-VENEER-FACED
ARCHITECTURAL CABINETS
09 29 00.D14 5/8" MAGNUM WALLBOARD
09 30 23.M MOSAIC TILING
09 30 23.A1 MOSAIC TILING
12 16 19.A1 WOOD COUNTERTOP BY
IKEA
22 41 39.A2 SINK FAUCET BY IKEA

SHEET KEYNOTES

6.05 ACCESSIBLE GRAB BAR TO BE
INSTALLED AT 2'-10" ABOVE
FINISHED FLOOR

6.10 MOSAIC TILE INSTALLATION TO
START FROM FLOOR TO TOP OF
INTERIOR WALL PARTITION
INTERIOR DETAIL SECTION @ LIVING ROOM/BATHROOM
WALL-MIDDLE

INTERIOR DETAIL SECTION @ LIVING ROOM/BATHROOM
WALL-HEAD

REFERENCE KEYNOTES

06 11 00 BS 1X3
06 16 00 D11 3/4" PLYWOOD
08 52 00 WOOD-FRAMED WINDOWS
09 29 00 D14 5/8" MAGNUM WALLBOARD
09 54 43 STRETCHED-FABRIC CEILING

SYSTEMS

05 41 00 A5 3-5/8" METAL STUD
05 41 00 A6 4" METAL STUD
05 70 00 A1 DECORATIVE METAL BY WILSONART

HARRY ASSOCIATES
ARCHITECTURE/EQUIPMENT/PLANNING
MCGRAW HILL SERIES II
ARCHITECTURE
DEPARTMENT OF ARCHITECTURE
DEPARTMENT OF THE ARTS

0007420 AAC000986 EB0003663 0008079
THOMAS M. CARLSON, AIA   JAMES W. PIERSOL, AIA

DRAWN BY:  CHECKED BY:  COPYRIGHT:

LOT NUMBER: SHEET NUMBER

SHEET INFORMATION

U.S. DEPARTMENT OF ENERGY
SOLAR DECATHLON 2011
WWW.SOLARDECATHLON.GOV

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CONSULTANTS

JAMES W. PIERSOL, AIA
AR 8079

JUNE 27, 2011

SHEET TITLE

ORIGINAL PUBLISH DATE: 2011-03-22

PRODUCED BY AN AUTODESK STUDENT PRODUCT
GENERAL SHEET NOTES

1. PROVIDE 1.5 HR FIRE RATING INSULATION FOR WALLS SURROUNDING ELECTRICAL METER AND MECHANICAL ROOM.

REFERENCE KEYNOTES

05 41 00.A5 3-5/8" METAL STUD
05 41 00.A8 6" METAL STUD
06 16 00.D11 3/4" PLYWOOD
08 14 73 SLIDING WOOD DOORS
09 29 00.D14 5/8" MAGNUM WALLBOARD
09 30 23 MOSAIC TILING
09 30 23.A1 MOSAIC TILING

INTERIORS DETAIL - WALL TYPE 3

D1

INTERIORS DETAIL - WALL TYPE 8

A1

INTERIORS DETAIL - WALL TYPE 9

A3

INTERIORS DETAIL - WALL TYPE 4

D4

INTERIORS DETAIL - WALL TYPE 7

1

0.65 ACCESSIBLE GRAB BAR TO BE INSTALLED AT 2'-10" ABOVE FINISHED FLOOR

SOUTH POD
3" = 1'-0"

1. FOR STRUCTURAL STEEL MEMBERS
INFORMATION PLEASE REFER TO
STRUCTURAL DRAWINGS.

INTERIORS DETAIL - WALL TYPE 5

A1

INcolm 1,050 06 00.A8
05 41 00.A5 3-5/8" METAL STUD
05 41 00.A8 6" METAL STUD
07 21 26 SPRAYED INSULATION
09 29 00.D14 5/8" MAGNUM WALLBOARD
09 30 23.A1 MOSAIC TILING

INTERIORS DETAIL - COLUMN LINE C4

C1

INTERIORS DETAIL - COLUMN LINE D4

C4

INTERIORS DETAIL - WALL TYPE 6

A4

05 41 00.A5 3-5/8" METAL STUD
05 41 00.A8 6" METAL STUD
07 21 26 SPRAYED INSULATION
09 29 00.D14 5/8" MAGNUM WALLBOARD
09 30 23.A1 MOSAIC TILING
# FURNITURE SCHEDULE

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<td>C1</td>
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<td>B1</td>
<td>P1</td>
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</table>

### MATERIAL/COLOR

- **F1**: Wood composition
- **B1**: White
- **P1**: Dark orange
- **C1**: Light brown
- **B2**: Nickel plated
- **P2**: Teno light gray
- **C1**: Brown
- **B3**: N/A

### DIMENSIONS

- **F1**: 22 7/8"D X 21 1/4"W X 38 1/4"H X 18 1/2"SH
- **B1**: 36 1/4"L X 23 5/8"W X 29 1/8"H
- **P1**: 46 – 62"H
- **C1**: 5'-5"L X 7'-10"W
- **B2**: 31 1/8"D X 30 3/4"W X 34 5/8"H X 17 3/8"SH
- **P2**: 37 3/8"D X 89 3/4"W X 32 5/8"H X 17 3/8"SH
- **C1**: 45 1/4"DIA. X 29 1/8"H 65 3/8" MAX. LENGTH
- **B3**: 29 1/2 DIA. X 15 3/4"H

### MANUFACTURER

- IKEA
- TBD

- **COUNT**: 1

### KEYNOTE

- **HENRIKSDAL**: DROP-LEAF DESK
- **ALANG**: DINING CHAIR
- **HEMMET**: FLOOR LAMP
- **MUDDUS**: AREA RUG
- **TIRUP**: SWIVEL CHAIR
- **KIVIK**: SOFA
- **BJURSTA**: DINING TABLE
- **STRIND**: COFFEE TABLE
- **TBD**: MURPHY BED

- **COUNT**: 4
INTERIOR RENDERING LIVING ROOM/ BEDROOM
GENERAL SHEET NOTES
1. 14'-0" RADIUS FOR SPRINKLERS
2. COORDINATE SPRINKLER HEAD LOCATION WITH INTERIOR RCP
3. PROVIDE PLUMBING SEPARATION & CONNECTION POINT AT NORTH AND SOUTH POD JOINT.

REFERENCE KEYNOTES
21 13 16 DRY PIPE SPRINKLER SYSTEMS
4.03 3/8" ALL THREAD ROD

FIRE SUPPRESSION AND ALARM

FIRE SUPPRESSION AND ALARM

1. 14'-0" RADIUS FOR SPRINKLERS
2. COORDINATE SPRINKLER HEAD LOCATION WITH INTERIOR RCP
3. PROVIDE PLUMBING SEPARATION & CONNECTION POINT AT NORTH AND SOUTH POD JOINT.
PLUMBING SYMBOLS

PVC/CPVC - SCH40 BEND
TRAP P - PVC - SCH 40
TEE SANITARY - PVC - SCH40
TRANSITION
TRAP P - PVC - SCH 40
SUPPLY PUMP
SUMP PUMP
SMOKE DETECTOR

PROJECT PLUMBING NOTES

1. THESE GENERAL NOTES APPLY TO ALL WORK SHOWN.
2. DO NOT SCALE DRAWINGS, USE FIELD MEASUREMENTS.
3. NOTES ON DRAWINGS SHALL APPLY TO ALL SIMILAR CONDITIONS WHETHER THEY ARE
   REPEATED OR NOT.
4. THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH 2009 INTERNATIONAL
   PLUMBING CODE.
5. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
   CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH EXISTING CONDITIONS
   AND WILL PROVIDE ANY NECESSARY OFFSETS, ROUTINGS, ETC. REQUIRED FOR A
   COMPLETE AND COORDINATED INSTALLATION.
6. ALL, NO EXPOSED DUCTWORK, PIPING, ELECTRICAL, CONDUIT, TEMPERATURE
   CONTROLS CONDUIT AND ASSOCIATED COMPONENTS TO BE METAL FINISH. COORDINATE
   WITH OWNER PRIOR TO INSTALLATION.
7. THE DRAWINGS AND DETAILS SHALL BE TAKEN AS A DIAGRAMATIC MEANS OF
   PROVIDING PIPING AND DUCTWORK. THEY DO NOT SHOW EVERY FITTING AND OFFSET
   NON-EXISTING WALLS, FLOOR, ETC. REQUIRED TO BE ADDRESSED IN THE INSTALLATION OF THE WORK.
8. THE WORK HAS BEEN DESIGNED FOR THE EQUIPMENT INDICATED FOR THE EQUIPMENT
   INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE TO
   PROVIDE EQUIPMENT OTHER THAN THAT INDICATED ON THE DRAWINGS.
9. ALL PIPING SYSTEMS SHALL BE SUPPORTED AS REQUIRED BY 2009 INTERNATIONAL
   PLUMBING CODE & MANUFACTURER'S RECOMMENDATIONS.
10. ALL PIPING PENETRATIONS THRU NEW/EXISTING WALLS/FLOORS SHALL BE SEALED TO
    EQUIVALENT THE RATING OF THE NEW/EXISTING WALL OR FLOOR.
11. THE COMPLETE DOMESTIC WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH
    THE 2009 INTERNATIONAL PLUMBING CODE.
12. CATALOG PART NUMBERS SHOWN ARE FOR DESCRIPTIVE AND MINIMUM QUALITY
    STANDARDS ONLY. THEY ARE NOT TO BE USED FOR ORDERING WITHOUT VERIFICATION.
    ENGINEER SHALL NOT BE RESPONSIBLE FOR MISMATCHED OR INACCURATE PART
    NUMBERS. ALTERNATE EQUIPMENT AND/OR MATERIALS MEETING THE MINIMUM QUALITY
    STANDARDS OF THE LISTED ITEM(S) ARE ACCEPTABLE.
1. WATER DELIVERY

1A. TO WS1 ON SUNDAY, DAY 1, AT 8:00 AM REQUEST 1,000 GALLONS. TANK OPENING EXCEEDS 4" MINIMUM REQUIREMENT WITH 12" CLEARANCE.

1B. TO LS1 ON SUNDAY, DAY 1, AT 8:00 AM REQUEST 500 GALLONS INTO OPEN REFLECTING POOL. IF REFLECTING POOL NOT COMPLETED, DELIVER 500 GALLONS TO WW1 FOR HOLDING. UPON COMPLETION OF REFLECTING POOL, WATER WILL BE PUMPED FROM WW1 TO LS1. REFLECTING POOL CAPACITY EQUALS 1,950 GALLONS.

2. WATER REMOVAL

2A. FROM WW1 ON MONDAY, DAY 20, REMOVE 1,000 GALLONS. TANK OPENING EXCEEDS 4" MINIMUM REQUIREMENT.

2B. FROM LS1 ON MONDAY, DAY 20, REMOVE 500 GALLONS FROM OPEN REFLECTING POOL.

3. PER RULE 9-1C, ALL WS TANKS ARE FULLY SHAGED. EACH CYLINDRICAL TANK CONTAINS A BLADDER WHICH IS SHANGED BY THE CONTAINER AND COVERED WITH VEGETATION (PLYWOOD).

4. RAIN WATER COLLECTION BARRELS ARE NOT CONNECTED TO THE WATER SUPPLY TANKS. OVERFLOW PROTECTION IS PROVIDED BY CONNECTION TO WASTE WATER TANKS. REFER TO L-102 FOR MORE INFORMATION.

REFERENCE KEYNOTES

22 11 22.A2 SUMP PUMP
22 12 00.A1 WATER STORAGE TANK
22 12 19 FACILITY GROUND-MOUNTED, POTABLE WATER STORAGE TANKS
22 33 13 INSTANTANEOUS ELECTRIC DOMESTIC WATER HEATERS
22 33 30.16 RESIDENTIAL, STORAGE ELECTRIC DOMESTIC WATER HEATERS

PLUMBING LEGEND

- HOT
- COLD
- SOLAR HOT WATER
- VENT
- SANITARY
1. All installation to comply with IRC 2009 and other applicable codes. See specification for installation.

2. For the purpose of the competition, the toilet shall not be used at any point. The wastewater tank will not be used for any vegetation or alternate use and will be removed at the end of the event.

3. For the purpose of the competition, all waste water will be sent to a separate waste water tank which will be removed at the end of the event.

4. Install ball shutoff valves at every device water connection.

5. Install water hammer arrestor according to manufacturer specifications at washer/dryer.

6. All supply lines to be 3/4" diameter.

7. Toilet shall not be plumbed for competition.

GENERAL SHEET NOTES

INSULATE TO R-24
HOT WATER SUPPLY: FROST KING PIPE WRAP INSULATION TAPE TOTAL R-VALUE 4.0 (2XR-VALUE 2.0)

REFERENCE KEYNOTES

11 31 23 A3 WASHER/DRYER COMBO BY ARISTON
22 33 13 INSTANTANEOUS ELECTRIC DOMESTIC WATER HEATERS
22 33 30.16 RESIDENTIAL, STORAGE ELECTRIC DOMESTIC WATER HEATERS
22 41 13 A5 WATER CLOSET BY CAROMA
22 41 16 A17 WALL MOUNT SINK BY CAROMA
22 41 39 A3 SHOWER TRIM BY AMERICAN STANDARD

PLUMBING LEGEND

HOT
COLD
VENT
SOLAR HOT WATER
SANITARY

PLUMBING HOT/COLD WATER SUPPLY

DOMESTIC SUPPLY

SHEET INFORMATION

TEAM NAME: perFORM[ED] House
ADDRESS: FLORIDA INTERNATIONAL UNIVERSITY
CONTACT: MODESTO A. MADIQUE CAMPUS
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DEPARTMENT OF ARCHITECTURE
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MIAMI, FL 33199
Marilys.Nepomechie@fiu.edu
http://solardecathlon.fiu.edu

CONSULTANTS

2011-06-27
ROBERT B. CAINE, P.E.
CA# 28087

SHEET TITLE

ORIGINAL PUBLICATION DATE: 2011-03-22

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LOT NUMBER:
SHEET NUMBER

U.S. DEPARTMENT OF ENERGY
SOLAR DECATHLON 2011
WWW.SOLARDECATHLON.GOV
1. All installation to comply with IRC 2009 and other applicable codes. See specification for installation.

2. For the purpose of the competition, the toilet shall not be used at any point. The wastewater tank will not be used for any vegetation or alternate use and will be removed at the end of the event.

3. For the purpose of the competition, all waste water will be sent to a separate waste water tank which will be removed at the end of the competition.

4. Install water hammer arrestor according to manuf. specifications at washer/dryer.

5. Toilet shall not be plumbed for competition.

REFERENCE KEYNOTES

11 31 23.A4 WASHER/DRYER COMBO BY ARISTON
22 11 23.A5 SUMP PUMP
22 41 13.A5 WATER CLOSET BY CAROMA
22 41 15.A17 WALL MOUNT SINK BY CAROMA
22 41 30.A3 SHOWER TRIM BY AMERICAN STANDARD

PLUMBING LEGEND

HOT
COLD
SOLAR HOT WATER
VENT
SANITARY

DOMESTIC RETURN
### PLUMBING FIXTURE SCHEDULE

<table>
<thead>
<tr>
<th>Description</th>
<th>Count</th>
<th>Manufacturer</th>
<th>Model</th>
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<th>Drain</th>
<th>Trap</th>
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<th>Waste</th>
<th>Vent</th>
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### PIPE SCHEDULE

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### PIPE FITTING SCHEDULE

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GENERAL SHEET NOTES

1. THESE GENERAL NOTES APPLY TO ALL WORK SHOWN.
2. DO NOT SCALE DRAWINGS, USE FIELD MEASUREMENTS.
3. NOTES ON DRAWINGS SHALL APPLY TO ALL SIMILAR CONDITIONS WHETHER THEY ARE REPEATED OR NOT.
4. ALL EXPOSED DUCTWORK, PIPING, ELECTRICAL CONDUIT, TEMPERATURE CONTROLS, CONDENSATE AND ASSOCIATED COMPONENTS SHALL BE STAINLESS STEEL OR COLOR AS SELECTED BY THE ARCHITECT.
5. THE WORK HAS BEEN DESIGNED FOR THE EQUIPMENT INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE AND PRODUCE ANY MODIFICATIONS TO THE WORK INCLUDING DUCTWORK, PIPING, ELECTRICAL PLUMBING, PIPE PROTECTION, STRUCTURAL, LIGHTING OUTLETS AND ARCHITECTURAL FEATURES SUCH AS CEILINGS, DOORS AND FRAMES. THE CONTRACTOR SHALL NOT PRODUCE DESIGN TO PROVIDE EQUIPMENT OTHER THAN THAT INDICATED ON THE DRAWINGS.

REFERENCE KEYNOTES

- 465 GALLON WASTE TANKS
- SUMP PUMP

PLUMBING LEGEND

- HOT
- COLD
- SOLAR HOT WATER
- VENT
- SANITARY
- WASHING BOX MACHINE
- HAMMER ARRESTOR
- VALVE
- DIVERTER VALVE/VOLUME CONTROL
- UNION
- TEMPERING VALVE
- THERMOMETER
- BACK FLOW PREVENTER

PLUMBING ISOMETRICS

SANITARY ISOMETRIC

PLUMBING SUPPLY ISOMETRIC

C1

1/2"
3/4"
1/2"
1/2"
1/2"
3/4"
3/4"
3/4"
1. Entire installation shall conform to the requirements of the Uniform Mechanical Code, Florida Building Code, and all other applicable codes and regulations.

2. Coordinate the installation of the HVAC system with the work of all other trades. Prior to any fabrication or installation, provide all fittings, offsets, and transitions as required for a complete workable installation.

3. Coordinate the locations of all ceiling diffusers, registers and grilles with the architectural reflective ceiling plan, electrical lighting layout, architectural room elevations and other trades prior to any fabrication or installation. Provide all fittings, offsets, and transitions as required for a complete workable installation.

4. All equipment shall be installed in strict accordance with the equipment manufacturer’s recommendations. Provide all fittings, offsets, and transitions, dampers, valves, and other devices required for a complete workable installation.

5. Maintenance label shall be affixed to all mechanical equipment and maintenance manual shall be provided for the owner’s use.

6. All line voltage wiring shall be installed in conduit. All conduit shall be provided and installed by the electrical contractor as indicated on the electrical drawings. All electrical work related to the mechanical installation shall be installed in accordance with all applicable codes and regulations of all governing bodies having jurisdiction thereof.

7. All equipment, ducts, piping, and other devices and materials installed outside of the building or otherwise exposed to the weather shall be completely weather-proofed.

8. Before beginning any work, contractors shall thoroughly examine all existing conditions, points of connection, sizes, locations, and equipment.

9. The contractor shall report to the engineer immediately any interference between trades or building obstructions. All work shall cease in that area until resolved by the architect.

10. Controls exposed to weather shall be installed in weatherproofed electrical box with hinged covers.

11. All materials and fixtures shall be new, unless otherwise noted, and of the best grade of the respective kind, free from all defects.

12. Materials for similar use shall be of the same type and manufacture, unless otherwise specified.

13. Drawings - the contractor shall provide and keep up-to-date a record set of blue line prints as-blt drawings.

14. The contractor shall verify the size and location of all piping and ductwork (where applicable) at points of connection with (e) systems or services prior to commencing work. All dimensions shown on these plans are approximate and must be confirmed on site.

15. Provide isolating valves and unions on piping adjacent to all control valves and other appurtenances or equipment. Locate valves and other equipment can be removed without dismantling any branch lines.

16. Pitch pipelines as required for proper drainage and elimination of air.

17. Install drain valves at low points of each system to enable complete drainage and air vents at all high points in piping system to enable complete air venting.

18. All serviceable components and controls of the air conditioning units shall be accessible for safe operation, examinations and maintenance.

19. Seal all openings around piping and ductwork penetrating fire resistive rated walls and floors to maintain rating integrity.

20. All appliances designed to be fixed in position shall be securely fastened in place per building code requirements.

21. Mechanical equipment shall be labeled with permanent and unique identification as to the space it serves.

22. All appliances and plumbing vents and the discharge outlet of exhaust fans shall be at least ten (10) feet in a horizontal direction, or three (3) feet above the outside air intakes for HVAC units.
GENERAL

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH LOCAL, STATE, AND NATIONAL CODES, INCLUDING THE LATEST APPROVED EDITION OF THE NATIONAL ELECTRICAL CODE, AND ALL OTHER AUTHORITIES HAVING JURISDICTION.

2. SHOULD ANY CONFLICTS EXIST BETWEEN THE DRAWINGS, NOTES, OR SPECIFICATIONS, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH WORK.

3. NO SITE EXCAVATION IS PERMITTED EXCEPT FOR INSTALLATION OF ELECTRODE GROUNDING RODS AS PER US DEPARTMENT OF ENERGY BUILDING CODE.

4. REFER TO COMMUNICATIONS DRAWINGS FOR PHONE AND DATA LOCATIONS. PROVIDE OUTLET BOX AND CONDUIT WITH NYLON FULL STRING, WIRING BY ORGANIZERS.

5. PROVIDE MEANS TO "FURNISH AND INSTALL."

6. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL WORKERS WITH PROPER SAFETY EQUIPMENT AND MAINTAINING A CLEAN WORK ENVIRONMENT IN COMPLIANCE WITH OSHA STANDARDS.

7. ALL WORK SHALL BE PERFORMED IN A NEAT AND WORKMAN-LIKE MANNER AND IN ACCORDANCE WITH THE BUILDING OWNER'S STANDARDS. ALL CONDUCT RUNS, WHERE EXPOSED, SHALL BE RUN IN STRAIGHT LINES PARALLEL AND/OR PERPENDICULAR TO BUILDING CONSTRUCTION.

8. ELECTRICAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, FOR ENGINEERS' REVIEW, OF ALL EQUIPMENT AND MATERIAL FURNISHED.

9. ALL MATERIAL AND DEVICES SHALL BE NEW AND BEAR THE MARK OF APPROVAL OF UNDERWRITERS' LABORATORIES (UL LISTED).

10. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR THE PROPER INSTALLATION AND SUPPORT OF ELECTRICAL EQUIPMENT. LAYOUTS SHALL BE MADE CAREFULLY IN ADVANCE TO COORDINATE WITH ALL OTHER TRADES.

11. ELECTRICAL CONTRACTOR SHALL ARRANGE ALL INSPECTIONS AND TESTS AND OBTAIN ALL CERTIFICATES, PERMITS, AND LICENSES REQUIRED BY THE LOCAL CODE ENFORCEMENT AGENCY.

12. ELECTRICAL CONTRACTOR SHALL FIREPROOF ALL ELECTRICAL PENETRATIONS OF FIRE-RATED PARTITIONS, WALLS, FLOORS, OR CEILINGS WITH AN APPROVED FIREPROOF SYSTEM (THE SYSTEM SHALL BE LISTED AND INSTALLED IN STRICT COMPLIANCE TO THE MANUFACTURER'S INSTRUCTIONS).

13. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL HARDWARE. AS REQUIRED AND AS INDICATED, TO MOUNT AND SECURE ALL FIXTURES, DEVICES, CONDUIT, AND ANY OTHER MATERIAL FURNISHED.

14. ELECTRICAL CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY LIGHTING AND POWER OUTLETS ADEQUATE FOR THE RECOMMENDED LEVELS AS STATED IN THE NATIONAL ELECTRIC CODE.

15. ELECTRICAL CONTRACTOR SHALL INSTALL ALL LIGHTING FIXTURES COMPLETE WITH LAMPS, BALLAST AND ALL REQUIRED MOUNTING HARDWARE. FIXTURES TO BE SUPPLIED BY OWNER.

16. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SWITCHGEAR AS SHOWN ON DRAWINGS. WIRING DEVICES TO BE SUPPLIED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR.

17. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUITS WHERE REQUIRED FOR CONTROL SYSTEMS SUCH AS HVAC, THERMOSTATS, ENERGY MONITORING SYSTEMS, ETC.

18. COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS OF SERVICES, OUTLETS, AND CONTROLLERS WITH INSTALLER OF THE EQUIPMENT TO BE SERVED. OUTLETS SHOWN ON DRAWINGS ARE FOR ROUGH-IN PURPOSES ONLY. PROVIDE COMPLETE CONNECTIONS TO THE EQUIPMENT FROM OUTLET BOXES.

19. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SHEATHING AS SHOWN ON DRAWINGS. WIRING DEVICES TO BE SUPPLIED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR.

20. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUITS WHERE REQUIRED FOR CONTROL SYSTEMS SUCH AS HVAC, THERMOSTATS, ENERGY MONITORING SYSTEMS, ETC.

21. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL HARDWARE. AS REQUIRED AND AS INDICATED, TO MOUNT AND SECURE ALL FIXTURES, DEVICES, CONDUIT, AND ANY OTHER MATERIAL FURNISHED.

22. ELECTRICAL CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY LIGHTING AND POWER OUTLETS ADEQUATE FOR THE RECOMMENDED LEVELS AS STATED IN THE NATIONAL ELECTRIC CODE.

23. ELECTRICAL CONTRACTOR SHALL INSTALL ALL LIGHTING FIXTURES COMPLETE WITH LAMPS, BALLAST AND ALL REQUIRED MOUNTING HARDWARE. FIXTURES TO BE SUPPLIED BY OWNER.

24. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SWITCHGEAR AS SHOWN ON DRAWINGS. WIRING DEVICES TO BE SUPPLIED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR.

25. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL HARDWARE. AS REQUIRED AND AS INDICATED, TO MOUNT AND SECURE ALL FIXTURES, DEVICES, CONDUIT, AND ANY OTHER MATERIAL FURNISHED.

26. ALL CONDUITS AND CABLES SHALL BE SECURELY SUPPORTED TO THE BUILDING STRUCTURE.

27. INCREASE BRANCH CIRCUIT CONDUCTORS TO ACCOMMODATE FOR VOLTAGE DROP. VOLTAGE DROP NOT TO EXCEED THE RECOMMENDED LEVELS AS STATED IN THE NATIONAL ELECTRIC CODE.

28. UNLESS OTHERWISE NOTED ON PLANS, ALL DEVICE ELEVATIONS REFER TO THE CENTER OF BOX. RECEPTACLES 15-120V SHALL BE WEATHERPROOF.

29. ELECTRICAL CONTRACTOR SHALL INSTALL ALL LIGHTING FIXTURES COMPLETE WITH LAMPS, BALLAST AND ALL REQUIRED MOUNTING HARDWARE. FIXTURES TO BE SUPPLIED BY OWNER.

30. ELECTRICAL CONTRACTOR SHALL INSTALL ALL LIGHTING FIXTURES COMPLETE WITH LAMPS, BALLAST AND ALL REQUIRED MOUNTING HARDWARE. FIXTURES TO BE SUPPLIED BY OWNER.

ELECTRICAL SYMBOLS

- Switch, Single Pole
- Dimming Switch, Single Pole
- Non-Dimming Switch
- Switch, Auxiliary
- Duplex Receptacle
- Duplex Receptacle, Switched
- Quadruplex Receptacle
- 240V Receptacle
- GFCI Receptacle
- GFCI Receptacle, Weatherproof Cover
- GFCI Receptacle, Flush Floorbox
- Junction Box
- Occupancy Sensor, Ceiling Mounted
- Smoke Detector
- Thermostat
- Data Outlet
- Telephone Outlet
- Test: Data Outlet
- Photocell
- Time Clock
- Motor
- Disconnected Switch

ELECTRICAL SYMBOIS & NOTES

- Switch, Single Pole
- Dimming Switch, Single Pole
- Non-Dimming Switch
- Switch, Auxiliary
- Duplex Receptacle
- Duplex Receptacle, Switched
- Quadruplex Receptacle
- 240V Receptacle
- GFCI Receptacle
- GFCI Receptacle, Weatherproof Cover
- GFCI Receptacle, Flush Floorbox
- Junction Box
- Occupancy Sensor, Ceiling Mounted
- Smoke Detector
- Thermostat
- Data Outlet
- Telephone Outlet
- Test: Data Outlet
- Photocell
- Time Clock
- Motor
- Disconnected Switch
LIGHTING FIXTURE SCHEDULE

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REFERENCE KEYNOTES

2.23.34-23 HVAC POWER VENTILATORS
26.09.23.A4 SCENE SWITCH BY HAI
26.09.23.A6 LUMINA MODE SWITCH BY HAI
26.09.23.A7 CEILING MOUNTED OCCUPANCY SENSOR.

Sheet Information

SHEET NUMBER: E-101
SHEET TITLE: ELECTRICAL LIGHTING PLAN
SHEET KEYNOTES

5.02 DUAL POWER - BATTERY & UNSWITCHED AC POWER
5.19 MOUNT ABOVE COUNTER.
COORDINATE HEIGHT WITH CABINETRY.
1. ALL RECEPTACES TO BE MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED.
2. REFER TO INTERIOR DETAIL DRAWINGS FOR INTERIOR DETAIL ELEVATIONS
3. ALL WIRING DEVICES AND FACEPLATES TO BE WHITE
4. ALL RECEPTACES TO BE TAMPER RESISTANT IN COMPLIANCE WITH NEC 406.11

REFERENCE KEYNOTES

22 11 23.26 CLOSE-COUPLLED, HORIZONTALLY MOUNTED, IN-LINE CENTRIFUGAL DOMESTIC-WATER PUMPS
22 11 23.A2 SUMP PUMP
22 34 23 HVAC POWER VENTILATORS
22 01 26 SPLIT SYSTEM AIR CONDITIONERS
26 05 26 GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS
26 24 16 PANEL BOXES
26 27 12 ELECTRICITY METERING
26 27 28 WIRING DEVICES
26 27 28.A8 FLOORBOX RECEPTACLE/LEVITON
26 28 16 ENCLOSED SWITCHES AND CIRCUIT BREAKERS

GENERAL SHEET NOTES

1. ALL RECEPTACES TO BE MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED.
2. REFER TO INTERIOR DETAIL DRAWINGS FOR INTERIOR DETAIL ELEVATIONS
3. ALL WIRING DEVICES AND FACEPLATES TO BE WHITE
4. ALL RECEPTACES TO BE TAMPER RESISTANT IN COMPLIANCE WITH NEC 406.11

REFERENCE KEYNOTES

22 11 23.26 CLOSE-COUPLLED, HORIZONTALLY MOUNTED, IN-LINE CENTRIFUGAL DOMESTIC-WATER PUMPS
22 11 23.A2 SUMP PUMP
22 34 23 HVAC POWER VENTILATORS
22 01 26 SPLIT SYSTEM AIR CONDITIONERS
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26 24 16 PANEL BOXES
26 27 12 ELECTRICITY METERING
26 27 28 WIRING DEVICES
26 27 28.A8 FLOORBOX RECEPTACLE/LEVITON
26 28 16 ENCLOSED SWITCHES AND CIRCUIT BREAKERS

SHEET KEYNOTES

5.03 MOUNT FLUSH WITH FINISHED SURFACE
5.05 HARDWIRE TO APPLIANCE WITH FMC
5.06 PROVIDE SWITCH FOR ENTERTAINMENT CENTER OUTLETS
5.10 CONNECT KITCHEN HOOD TO KITCHEN LIGHTING CIRCUIT
5.12 DATALOGGER IN KITCHEN CABINET
5.16 MOUNT 20A WP GFCI RECEPTACLE BELOW DECK

POWER PLAN

E-102
GENERAL SHEET NOTES
1. COORDINATE ROUTING WITH PV ARRAY FRAME STRUCTURE
2. ALL ROOF PENETRATIONS TO BE PROPERLY SEALED TO PREVENT LEAKS.
3. REFER TO TIGO CABLE INSTALLATION MANUAL FOR PV WIRING DETAILS

REFERENCE KEYNOTES

PV MODULES CIRCUITING CONVENTION

xSyMz
x: INVERTER # (1 or 2)
y: STRING # (1 or 2)
z: MODULE # (1-7)

Example. 2S2M4
Inverter 2 String 2 Module 4

MARK DATE DESCRIPTION
1 2011-06-27 FIU PERMIT
2 2011-07-06 COORDINATION

REFERENCE KEYNOTES
1. Coordinate exact location of ground rod with deck installer.

5.09 Use rigid nipple and weatherproof fittings for roof penetration.

8' Copper ground rod in compliance with IRC E306.1.4.

Grounding isometric

Equipment room isometric

Roof penetration details
PV CALCULATIONS

CONDUCTOR SIZING [NEC 690.8 (B)(1)]

DC PV OUTPUT IN FREE AIR (TIGO CABLE)

Isc: 6.24A
Vmp: 54.7V

= 6.24 * 1.25 = 7.80A

#12 AWG Rated 40A @ 90°C

DC: 600V
AC: 25A Overcurrent: #10 AWG
45A Overcurrent: #10 AWG

INVERTER AC OUTPUT CIRCUIT

DC Overcurrent Protection Device:

AT 17A DC Fuse [NEC 240.4 (B)]

DC Fuse Rating > Imax * 1.25 = 9.75A: 15A DC Fuse [NEC 240.4 (B)]

(17A + 17A) * 1.25 = 42.5A: 45A Overcurrent Device [NEC 240.4 (B)]

PANEL H: 150 + 45 = 195A < 200*1.20 = 240A

Manufacturer’s Temperature Coefficient: 0.1766V/K

Voc = 64.8V @ 25°C (77°F, 298.15 K)

= 9.75/(0.41) = 23.78A

0.41: 160°F Temperature Correction Factor [NEC Table 310.17]

Series String Voltage: 7 * 70.52 = 493.66V (Max 600V)

INVERTER OUTPUT CONNECTION [NEC 690.8 (B)(4)]

Does not apply because panelboard ratings exceed sum of supplying overcurrent devices

PV POINT OF CONNECTION [NEC 690.64 (B)(2)]

MLO PANEL: 25 + 25 = 50 < 100*1.20 = 120A

E = 64.8 + [0.1776 * (298.15 - 265.93)] = 70.52V

#12 AWG Rated 40A @ 90°C

VOLTAGE DROP CALCULATIONS

L = (VD * cmil) / (2 * k * I)

L = Max Length Not Exceeding 3% Drop

VD = Voltage Drop

cmil = Circular Mils of Wire

k = 12.9 [Copper Constant]

I = max current

NEC 690.7 MAX CIRCUIT VOLTAGE

Vac = 44.4V @ 25°C, 77°F, 265.93 K (Generalized Temperature Factor) Manufacturer’s Temperature Coefficient: 0.1766V/K

= 12.9 * 77 (2089 - 265.93) / 265.93 = 70.52V

Series String Voltage: 7 * 70.52 = 493.66V (Max 600V)

NEC 690.8 MAX CIRCUIT CURRENT

DC String (max) = 0.25E [NEC 690.8 (A)]

= 0.25 * 17A = 4.25A

DC Overcurrent Protection Device:

DC Fuse Rating: 25A [NEC 690.64 (B)(1)]

Inverter Max AC Output Current: 17A [Manufacturer’s Data] [NEC 690.6 (A)(3)]

AC Overcurrent Protection Device:

Circuit Breaker Rating = 17A * 1.25 = 21.25A

25A Circuit Breaker [NEC 240.4 (B)]

PV WIRING DIAGRAM
### Feeder Calculations (NEC 220.82 Optional Method)

<table>
<thead>
<tr>
<th>Description</th>
<th>VA</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Loads (NEC 220.82 (E))</td>
<td>1030</td>
</tr>
<tr>
<td>General Lighting/Recept.</td>
<td>8073</td>
</tr>
<tr>
<td>Small Appliances</td>
<td>3000</td>
</tr>
<tr>
<td>Laundry</td>
<td>1506</td>
</tr>
<tr>
<td>Draw</td>
<td>8500</td>
</tr>
<tr>
<td>Elastic Ovrs/Range</td>
<td>9800</td>
</tr>
<tr>
<td>Refrigerator</td>
<td>1500</td>
</tr>
<tr>
<td>Tankless Water Heater</td>
<td>12000</td>
</tr>
<tr>
<td>Fire Water Supply Pumps</td>
<td>1200</td>
</tr>
<tr>
<td>Landscape Pumps</td>
<td>330</td>
</tr>
<tr>
<td><strong>Total VA</strong></td>
<td>36607</td>
</tr>
</tbody>
</table>

### Demand Factors (NEC 220.82 (A))

| First 10000 VA at 100%             | 10300|
| Remainder at 40%                  | 20643|
| **Total General Load VA**         | 20643|

### Air Conditioning Load (NEC 220.82 (C))

<table>
<thead>
<tr>
<th>Load</th>
<th>VA</th>
</tr>
</thead>
<tbody>
<tr>
<td>4800 VA at 100%</td>
<td>4800</td>
</tr>
<tr>
<td><strong>Total VA</strong></td>
<td>25400</td>
</tr>
</tbody>
</table>

### Minimum Feeder Wire Size

<table>
<thead>
<tr>
<th>Description</th>
<th>AWG</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEC Table 310.15(E)(8) Minimum</td>
<td>1</td>
</tr>
<tr>
<td>Minimum Electrode Ground Wire Size</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total AWG</strong></td>
<td>4</td>
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</tbody>
</table>

### Neutral Load Calculation (NEC 220.61)

<table>
<thead>
<tr>
<th>Permitted Reductions (NEC 200.61 (E))</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Conditioning</td>
</tr>
<tr>
<td>Water Heater</td>
</tr>
<tr>
<td>Supply Pump Hot Water</td>
</tr>
<tr>
<td>Electric Loads</td>
</tr>
<tr>
<td>Non Reduced Loads</td>
</tr>
<tr>
<td><strong>Total VA</strong></td>
</tr>
</tbody>
</table>

### Minimum Feeder Neutral Size [NEC 310.18] 8 AWG

### General Sheet Notes

1. Refer to power plan for location of panels.

### Reference Keynotes

**GENERAL SHEET NOTES**

**REFERENCE KEYNOTES**

**SHEET KEYNOTES**

**MANUFACTURER**

**AC COMBINER PANEL**

<table>
<thead>
<tr>
<th>Description</th>
<th>KVA</th>
<th>WIRING &amp; CONDUIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PV INPUT, INVERTER 1</td>
<td>360 14/3 GND 3/4&quot; EMF</td>
<td>PV INPUT, INVERTER 2</td>
</tr>
<tr>
<td>PV INPUT, INVERTER 2</td>
<td>408 14/3 GND 3/4&quot; EMF</td>
<td>14/3 GND 3/4&quot; EMF</td>
</tr>
</tbody>
</table>

**MANUFACTURER**

**SQUARE C**

### PANEL H

<table>
<thead>
<tr>
<th>Description</th>
<th>KVA</th>
<th>WIRING &amp; CONDUIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOUNTING</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LOCATION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MECHANICAL ROOM</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### PANEL SCHEDULES

<table>
<thead>
<tr>
<th>Description</th>
<th>KVA</th>
</tr>
</thead>
<tbody>
<tr>
<td>D - SPACE</td>
<td></td>
</tr>
<tr>
<td>P - SPACE</td>
<td></td>
</tr>
</tbody>
</table>

### ELECTRICAL SHEET NUMBER

E-603

### SHEET NUMBER

E-603

### SHEET INFORMATION

**DRAWN BY:** R. Molina
**CHECKED BY:**
**COPYRIGHT:**
**PRODUCED BY AN AUTODESK STUDENT PRODUCT**
GENERAL SHEET NOTES:
1. Dashed lines denote proposed routing for communication cabling, supplied and installed by organizers.
2. Empty conduit and pull strings to be installed by EC.
3. All wall and floor penetrations to be 1" in diameter and filled with batt insulation after cable is run.

REFERENCE KEYNOTES:
- 5.12 Datalogger in kitchen cabinet
- 5.13 Installed by organizers
- 5.18 Provide 1" PVC raceway below floor

SHEET KEYNOTES:
- 5.12 Datalogger in Kitchen Cabinet
- 5.13 Installed by Organizers
- 5.16 Provide 1" PVC Raceway

COMMUNICATIONS PLAN
- 1/4" = 1'-0"
DAY 1:
- Dispatch Truck #5 (TAKE DEBRIS AND WRAPPING MATERIAL).
- Call for Truck #4 (TAKE DEBRIS AND WRAPPING MATERIAL).
- Lay NPS truck mats at east of lot.
- Survey Lot - Find datum points.
- Truck #1 arrives. Disengage trailer.
- Dispatch Truck #1.

DAY 1:
- Call for Truck #2/3 (95 Ton Crane).
- Truck #2 arrives. Prepare for use.
- Call for Truck #4 (SOUTH POD).
- Locate and level house footings.
- Establish safety barrier for crane.

DAY 1:
- Receive NPS approved truck mats.
- Call for Truck #1 (TOOLS & EQUIPMENT).
- Lay NPS truck mats for Truck #1.
- Lay NPS truck mats at east of lot.
- Survey lot. Find datum points.
- Truck #1 arrives. Dismantle trailer.
- Dispatch Truck #1.

DAY 1:
- Dispatch Truck #4 (TAKE DEBRIS AND WRAPPING MATERIAL).
- Call for Truck #2/3 (95 Ton Crane).
- Truck #4 arrives. Prepare for use.
- Call for Truck #5 (SOUTH POD).
- Locate and level house footings.
- Establish safety barrier for crane.

DAY 1:
- Lift South Pod into position.
- Truck #4 to remain on site until South Pod is secured.

DAY 1:
- Dispatch Truck #4 (TAKE DEBRIS AND WRAPPING MATERIAL).
- Call for Truck #2/3 (95 Ton Crane).
- Truck #5 arrives. Prepare for use.
- Call for Truck #4 (SOUTH POD).
- Locate and level house footings.
- Establish safety barrier for crane.

DAY 1:
- Lift South Pod into position.
- Truck #5 to remain on site until South Pod is secured.
DAY 1:
- Dispatch truck #2 (crane).
- Secure house. Make connections between pods. Make adjustments as necessary.
- End of day 1.

DAY 2:
- Dispatch truck #6 (remove packing materials).
- Install canopy framing. Continue MEP activities.
- Continue interior activities.
- Call for truck #7.
- End of day 2.

DAY 3:
- Truck #7 arrives.
- Install Nanawalls.
- MEP installations and activities.
- Interior installations and activities.
- Dispatch truck #7 (remove packing materials).
- End of day 3.

DAY 4:
- Continue MEP activities.
- Continue interior activities.
- Survey lot for deck.
- Call for truck #8 (deck frames).
DAY 5:
- INSTALL DECK MODULES AT SOUTH.
- CONTINUE MEP ACTIVITIES.
- INSTALL WATER TANK SHADING DEVICES.
- DISPATCH TRUCK #9 (REMOVE PACKING MATERIAL).
- END OF DAY 5.

DAY 5:
- CALL FOR TRUCK #9 (DECK MODULES).
- PREPARE FOR WATER DELIVERY.
- TRUCK #9 (DECK MODULES) ARRIVES.
- INSTALL DECK MODULES AT NORTH.
- CONTINUE MEP ACTIVITIES.

DAY 4:
- INSTALL WATER TANKS.
- INSTALL SOLAR THERMAL SYSTEM.
- CONTINUE MEP ACTIVITIES.
- DISPATCH TRUCK #8 (REMOVE PACKING MATERIALS).
- END OF DAY 4.

DAY 6:
- TRUCK #10 (POOL) ARRIVES.
- UNLOAD AND INSTALL POOL.
- DISPATCH TRUCK #10 (REMOVE PACKING MATERIALS).
- CALL FOR TRUCK #11 (RAMPS & PLANTERS).
- TRUCK #11 ARRIVES (RAMPS & PLANTERS).
- UNLOAD AND INSTALL RAMPS & PLANTERS.
- DISPATCH TRUCK #11 (REMOVE PACKING MATERIALS).
- CALL FOR TRUCK #1; COLLECT NPS MATS.
- SURVEY LOT FOR POOL, RAMPS AND PLANTERS.
- PREPARE FOOTINGS FOR POOL, RAMPS AND PLANTERS.
- END OF DAY 6.

DAY 6:
- TRUCK #10 (POOL) ARRIVES.
- UNLOAD AND INSTALL POOL.
- DISPATCH TRUCK #10 (REMOVE PACKING MATERIALS).
- CALL FOR TRUCK #11 (RAMPS & PLANTERS).
- TRUCK #11 ARRIVES (RAMPS & PLANTERS).
- UNLOAD AND INSTALL RAMPS & PLANTERS.
- DISPATCH TRUCK #11 (REMOVE PACKING MATERIALS).
- END OF DAY 6.

DAY 7:
- INSTALL PLANTING MATERIAL.
- MINOR DETAILS & TRIM OUT.

DAY 8:
- REST DAY
DAY 19:
- PREPARE HOUSE FOR DISASSEMBLY.
- RECEIVE NPS APPROVED TRUCK MATS.
- LAY NPS TRUCK MATS AT EAST OF LOT.
- COLLECT AND PACK PLANTING MATERIAL.
- END OF DAY 19.

DAY 20:
- COLLECT AND PACK WATER TANKS AND SOLAR THERMAL SYSTEM.
- DISPATCH TRUCK #8.
- COLLECT AND PACK DECK FOOTINGS.
- END OF DAY 20.

DAY 20:
- CALL FOR TRUCKS #11 AND #10.
- PREPARE FOR WATER REMOVAL. REMOVE WATER TANK SHADING DEVICES.
- TRUCK #11 ARRIVES.
- COLLECT AND PACK PLANTERS.
- DISPATCH TRUCK #11.
- COLLECT AND PACK POOL.
- DISPATCH TRUCK #10.

DAY 20:
- CALL FOR TRUCK #7.
- RECEIVE AND LAY NPS TRUCK MATS AT PERIMETER OF HOUSE.
- TRUCK #7 ARRIVES.
- COLLECT AND PACK LOUVER/SHUTTERS.
- BEGIN DISASSEMBLING MEP COMPONENTS.
- BEGIN DISASSEMBLING INTERIOR COMPONENTS.
- CALL FOR TRUCK #6.
- DISPATCH TRUCK #7.

DAY 22:
- CALL FOR TRUCK #2/3 (CRANE).
- CALL FOR TRUCK #5.
- PREPARE HOUSE FOR DISCONNECT AND DISASSEMBLY.
- TRUCK #2 ARRIVES. PREPARE CRANE FOR USE.
- ESTABLISH SAFETY BARRIER FOR CRANE.

MONTH: 06
DAY: 27
YEAR: 2011

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Thomas M. Carlson, AIA   James W. Piersol, AIA

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ADDRESS: FLORIDA INTERNATIONAL UNIVERSITY
CONTACT:

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DEPARTMENT OF ARCHITECTURE
PCA 386A
MIAMI, FL 33199

http://solardecathlon.fiu.edu
Marilys.Nepomechie@fiu.edu

FACILITIES

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DAY 22:
- TRUCK #5 ARRIVES.
- PREPARE NORTH POD FOR LIFTING.

DAY 22:
- LIFT NORTH POD ONTO TRUCK.
- SECURE NORTH POD TO TRUCK #5.
- DISPATCH TRUCK #5.
- CALL FOR TRUCK #4.

DAY 22:
- TRUCK #4 ARRIVES.
- PREPARE SOUTH POD FOR LIFTING.

DAY 22:
- LIFT SOUTH POD ONTO TRUCK.
- SECURE SOUTH POD TO TRUCK #4.
- DISPATCH TRUCK #4.
- CALL FOR TRUCK #1.

DAY 22:
- COLLECT AND PACK HOUSE FOOTINGS.
- DISPATCH TRUCK #1.
- COLLECT ALL NPS TRUCK MATS.
- REMOVED AT OFF-SITE STORING AREA TO ASSURE THAT ALL TRUCKS ARE PROPERLY PACKED AND SECURED.
- END OF DAY 22.

Day 1:
- DISPATCH TRUCK #1.
- COLLECT ALL NPS TRUCK MATS.
- RENDEZVOUS AT OFF-SITE STAGING AREA TO ASSURE THAT ALL TRUCKS ARE PROPERLY PACKED AND SECURED.
- END OF DAY 22.
SAFETY ATTACHMENT POINT

LIFTING DIAGRAM

LIFTING CHARTS

LIFTING CABLE DIAGRAM

Main Boom Lift Capacity Charts

Working Range Diagram

LIFTING DIAGRAM

SAFETY ATTACHMENT POINT

LIFTING CHARTS

LIFTING CABLE DIAGRAM

LIFTING DIAGRAM
<table>
<thead>
<tr>
<th>Equipment</th>
<th>Qty</th>
<th>Manufacturer</th>
<th>Model No.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crane</td>
<td>1</td>
<td>LINK-BELT</td>
<td>HTC 8690</td>
<td>CAPABLE OF LIFTING 20,000 LBS @ 70' RAD.</td>
</tr>
<tr>
<td>Generator</td>
<td>2</td>
<td>HONDA</td>
<td>EB6500 XA</td>
<td>ADDITIONAL 20 GALLONS OF FUEL AND 1 QT. OF OIL WILL BE ON SITE</td>
</tr>
<tr>
<td>Material Lift</td>
<td>2</td>
<td>GENIE LIFT</td>
<td></td>
<td>13' - 15' LIFT HEIGHT</td>
</tr>
<tr>
<td>Fork Lift</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>