USE OF SPECIFICATION SECTION NUMBERS WITHIN KEYNOTES OR ELSEWHERE ON THE DRAWINGS IS MADE SOLELY FOR CONVENIENCE IN COORDINATION AND WITHOUT LIMITATION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE WORK IN ACCORDANCE TO THE CONTRACT DOCUMENTS IN THE ENTIRETY.

1. USE OF SPECIFICATION SECTION NUMBERS WITHIN KEYNOTES OR ELSEWHERE ON THE DRAWINGS IS MADE SOLELY FOR CONVENIENCE IN COORDINATION AND WITHOUT LIMITATION, THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE WORK IN ACCORDANCE TO THE CONTRACT DOCUMENTS IN THE ENTIRETY.

2. TOTAL CONDITIONED AREA 981 SQ FT. THE TOTAL BUILDING SOLAR FOOTPRINT HAS BEEN CALCULATED USING THE SHARED AREA SHOWN. THIS REPRESENTS THE EXTERIOR FACE OF ALL SURFACES, ACCORDING TO ANSI 770-2003.
1. All portable tanks, pumps, and valves intended to mimic public utility water supply and sewage are temporary for competition purposes only.

TOUR PATH

G-103
1. All portable tanks, pumps, and valves intended to mimic public utility water supply and sewage are temporary for competition purposes only.

2. EAST SOLAR COMPLIANCE ELEVATION

3. NORTH SOLAR COMPLIANCE ELEVATION
1. The location of existing underground utilities, such as water mains, sewers, gas lines, etc., has not been determined and has not been shown on the plans before construction. Owner should hire a licensed civil engineer to determine locations based on the best available information. All information shown is given for the convenience of the contractor. The owner and the engineer do not assume responsibility in the event that during construction, utilities other than those shown may be encountered and that the actual location of those which exist may be different from the location assumed.

2. Contractor shall notify the owner, engineer and the local presiding municipality a minimum of 48 hours in advance of performing any work.

3. Areas, on or off site, disturbed during construction operations and not part of the work as shown herein shall be restored to original condition to the satisfaction of the owner at no additional cost to the owner. It is incumbent upon contractor to show that damaged areas were not disturbed by construction operations.

4. These drawings assume that the contractor will utilize an electronic drawing file and stake all site improvements using coordinates tied into the control points. The dimensions indicated on the drawings are for the convenience of the contractor only.

5. In the case of conflict between these drawings, the foundation drawings and the architectural site plan, the user of this information shall contact the engineer immediately.

6. Owner to coordinate the exact locations of all utility service lines with plumbing drawings. Refer to plumbing drawings for continuation of all utilities within 5 feet of building area.

7. Contractor shall field verify invert & locations of existing utility mains prior to installing any on-site utilities or structures.

8. Separation of water and sewer lines shall be 10’ minimum horizontally. If 10’ is not possible, sewer shall be of water main quality material and construction.

9. Clean out all existing and proposed storm inlets and catch basins at the completion of construction.

10. The “Standard Specifications for Water and Sewer Main Construction in Purdue” current edition shall govern work where applicable.
1. All portable tanks, pumps, and valves intended to mimic public utility water supply and sewage are temporary for competition purposes only.

2. Total pressure on soil shall not exceed 1500 PSF at any point of ground contact. See project manual for structural calculations.

3. Foundations to be located to accept home as required. Dimensions shown here are for reference only. Contractor to verify conditions of pre-constructed elements and adjust accordingly.

4. Deck foundations to be installed after home module and roof cap have been set. This drawing shows all potential ground surface contact and is not meant to display order of construction.

5. Building has sufficient weight and design to resist overturning and does not require any ground penetrations for tie downs. See structural calculations in project manual.

6. Only ground penetration to be grounding lighting rod and shall be installed per manufacturer's specifications. Location to be coordinated with event organizers.

7. Owner shall repair and/or replace grass after removal of house.

8. Site to be and shall remain ADA complaint at all times once complete.

9. All existing utilities, fixtures, & property to remain without modification.
**GENERAL SHEET NOTES**

1. **ORGANIZER TO PROVIDE TEMPORARY WALKWAY AS SHOWN AS A PATHWAY FROM DECATHLETE WAY TO SOLAR ENVELOPE.** 
   - Walkway shall be designed and constructed to meet ANSI 117.1 standards and shall remain accessible throughout all public tours and openings.

2. **DIMENSIONS SHOWN ASSUME FLAT SITE CONDITIONS, WITH A 1:25 SLOPED WALKWAY. SITE GRADE CAN VARY UP TO 5" BEFORE ADDITIONAL LENGTH MUST BE ADDED. ORGANIZER SHALL MAINTAIN ENOUGH PROTECTIVE WALKWAY ON-HAND TO ACCOMMODATE UP TO AN 18" CHANGE IN GRADE.**

3. **WALKWAY TO BE CONSTRUCTED TO MEET ANSI 117.1 STANDARDS AND SHALL REMAIN ACCESSIBLE THROUGHOUT ALL PUBLIC TOURS AND OPENINGS.**

4. **WIDTH OF WALKWAY TO BE DETERMINED BY SITE ORGANIZERS AND SHALL MEET ADA AND NATIONAL PARK SERVICE REQUIREMENTS AT ALL TIMES.**

5. **TOTAL PRESSURE ON SOIL WILL NOT EXCEED 1500 PSF. AT ANY POINT OF GROUND CONTACT. SEE PROJECT MANUAL FOR STRUCTURAL CALCULATIONS.**

6. **FOUNDATIONS TO BE LOCATED TO ACCEPT HOME AS REQUIRED. DIMENSIONS SHOWN HERE ARE FOR REFERENCE ONLY. CONTRACTOR TO VERIFY CONDITIONS OF PRE-CONSTRUCTED ELEMENTS AND ADJUST ACCORDINGLY.**

7. **THIS DRAWING SHOWS ALL POTENTIAL GROUND SURFACE CONTACT AND IS NOT MEANT TO DISPLAY ORDER OF CONSTRUCTION.**

8. **BUILDING HAS SUFFICIENT WEIGHT AND DESIGN TO RESIST OVERTURNING AND DOES NOT REQUIRE ANY GROUND PENETRATIONS FOR TIE DOWNS. SEE STRUCTURAL CALCULATIONS IN PROJECT MANUAL.**

9. **ONLY GROUND PENETRATION TO BE GROUNDING LIGHTNING ROD AND SHALL BE INSTALLED PER MANUF. SPECIFICATIONS. LOCATION TO BE COORDINATED WITH EVENT ORGANIZERS.**

10. **OWNER SHALL REPAIR AND/OR REPLACE GRASS AFTER REMOVAL OF HOUSE.**

11. **SITE TO BE AND SHALL REMAIN ADA COMPLAINT AT ALL TIMES ONCE COMPLETE.**

12. **ALL EXISTING UTILITIES, FIXTURES, & PROPERTY TO REMAIN WITHOUT MODIFICATION.**

**REFERENCE KEYNOTES**

- Entry from Decathlon Way to Pathway
- Pathway to Decathlon Way Pathway
- Solar Envelope
- Decathlon Way

**ORGANIZER SUPPLIED PAVING PLAN**

*PRODUCED BY AN AUTODESK STUDENT PRODUCT*
Notes:
- 40 ft wide Decathlon Way
- 24 ft wide between house lots on the non-Decathlon Way side
- 5 ft between house lots in the east-west direction
- Yellow path is for both construction vehicles and pedestrians
- Direction arrows show one way construction vehicle traffic
- Not shown are office trailers, all tents, all pedestrian paths, restrooms, campers, medical, nighttime lighting and electrical & IT connection points.
- Baseball fields cannot be used

Assembly/Disassembly
14 March 2011
Revision

Solar Decathlon 2011
West Potomac Park
Washington, DC

200ft.
1. All portable tanks, pumps, and valves intended to mimic public utility water supply and sewage are temporary for competition purposes only.

2. General notes shall apply to all work shown.

3. All planting containers will be plugged to contain all liquids at any point during the event.

4. Contractor shall be responsible for furnishing and installing the necessary equipment to provide a complete and approved landscape plan.

5. All final plant placing per landscape designer.

6. All final exterior stain/paint colors per landscape designer.

7. All construction shall conform to the Department of Energy Solar Decathlon 2011 building code as well as the code of the local government having jurisdiction, not to include on-site rain barrels.

8. Rain barrels shall not be emptied on lot.

9. Rain collection barrels shall be drained by the normal water removal procedures. Six students shall quickly and promptly move the water removal hose to and from all water removal locations.

MOVABLE PLANTER BOX LOCATIONS

1. 57 GALLON RAIN COLLECTION BARREL
2. ENTRY/EXIT WOOD RAMPS
3. 36" HEIGHT WOOD RAILING
4. PRESSURE TREATED WOOD DECKING

DIV 32 - LANDSCAPING

32 80 00      57 GALLON RAIN BARREL
32 93 00      PLANTS
32 94 33      PLANTERS
GENERAL SHEET NOTES

1. ALL PORTABLE TANKS, PUMPS, AND VALVES INTENDED TO MIMIC PUBLIC UTILITY WATER SUPPLY AND SEWAGE ARE TEMPORARY FOR COMPETITION PURPOSES ONLY.

2. GENERAL NOTES SHALL APPLY TO ALL WORK SHOWN.

3. ALL PLANTING CONTAINERS WILL BE PLUGGED TO CONTAIN ALL LIQUIDS AT ANY POINT DURING THE EVENT.

4. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING THE NECESSARY EQUIPMENT TO PROVIDE A COMPLETE AND APPROVED LANDSCAPE PLAN.

5. ALL FINAL PLANT PLACING PER LANDSCAPE DESIGNER.

6. ALL FINAL EXTERIOR STAIN/PAINT COLORS PER LANDSCAPE DESIGNER.

7. ALL CONSTRUCTION SHALL CONFORM TO THE DEPARTMENT OF ENERGY SOLAR DECATHLON 2011 BUILDING CODE AS WELL AS THE CODE OF THE LOCAL GOVERNMENT HAVING JURISDICTION.

8. RAIN BARRELS SHALL NOT BE EMPTIED ON LOT.

9. RAIN COLLECTION BARRELS SHALL BE DRAINED BY THE NORMAL WATER REMOVAL PROCEDURES. SIX STUDENTS SHALL QUICKLY AND PROMPTLY MOVE THE WATER REMOVAL HOSE TO AND FROM ALL WATER REMOVAL LOCATIONS.

REFERENCE KEYNOTES

DIV 7 - THERMAL AND MOISTURE PROTECTION
07 71 23   MANUFACTURED GUTTERS AND DOWNSPOUTS
DIV 32 - LANDSCAPING
32 80 00   57 GALLON RAIN BARREL

SHEET KEYNOTES

1. APPROXIMATE DOWNSPOUT

LANDSCAPE IRRIGATION PLAN

SCALE: 1/4" = 1'-0"
1. All portable tanks, pumps, and valves intended to mimic public utility water supply and sewage are temporary for competition purposes only.

2. General notes shall apply to all work shown.

3. All planting containers will be plugged to contain all liquids at any point during the event.

4. Contractor shall be responsible for furnishing and installing the necessary equipment to provide a complete and approved landscape plan.

5. All final plant placement per landscape designer.

6. All final exterior stain/paint colors per landscape designer.


8. Wire for landscape lighting.
1. ALL PORTABLE TANKS, PUMPS, AND VALVES INTENDED TO MIMIC PUBLIC UTILITY WATER SUPPLY AND SEWAGE ARE TEMPORARY FOR COMPETITION PURPOSES ONLY

REFERENCE KEYNOTES
- MOVABLE PLANTER BOX LOCATIONS
- RAIN COLLECTION BARREL
- 36" HEIGHT WOOD RAILING

SHEET KEYNOTES
- SOUTH LANDSCAPING ELEVATION
- WEST LANDSCAPING ELEVATION
1. All portable tanks, pumps, and valves intended to mimic public utility water supply and sewage are temporary for competition purposes only.

2. Movable planter box locations.

3. Rain collection barrel.

4. 36" height wood railing.
2X4 PT TOP RAIL/SCREW FROM BENEATH
2X4 PT MID RAIL/SCREW BALUSTERS FROM TOP
4X4 PT POST/PRIMED AND PAINTED/COLOR TBD
2X2 PT BALUSTERS/PRIMED AND PAINTED/COLOR TBD
2X4 PT BOTTOM RAIL/SCREW FROM BENEATH
2X6 PT DECKING
2X8 PT RIM JOIST PER STRUCTURES
EXTENDED POST/ATTACH TO 2X8 PT RIM JOIST/PER STRUCTURES
4X4 PT COLUMN/PER STRUCTURES
UNDISTURBED FINISH GRADE

NOTES:
1. ALL EXTERIOR WOOD MATERIAL TO BE PRESSURE TREATED LUMBER.
2. RAILING HEIGHT NOT TO EXCEED 36''.
3. ALL FINAL PRIMER/PAIN COLOR PER LANDSCAPE DESIGNER.
4. SEE LANDSCAPE PLAN FOR FINAL LOCATIONS AND DIMENSIONS.

PLANTS/SEE PLANTING SCHEDULE

NOTES:
1. ALL INTERIOR SHEATING TO BE 15/32 3-PLY.
2. PLANTING SOIL PER LANDSCAPE DESIGNER.
3. ALL FINAL STAIN COLOR PER LANDSCAPE DESIGNER.
4. DRAINAGE TO BE "PLUGGED" TO PREVENT LIQUID ONTO SITE DURING ALL TIMES OF EVENT.
5. ALL MOVABLE PLANTER SHALL NOT BE PERMANENTLY MOUNTED TO FINISH GRADE/DECKING DURING EVENT.
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<th>MARK</th>
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<th>COMMON NAME</th>
<th>BOTANICAL NAME</th>
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<td>CAREX RADIATA</td>
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<td>9</td>
<td>PRAIRIE DROPS</td>
<td>SPOROBOLUS THERMITERIS</td>
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<td>5 GAL</td>
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GENERAL SHEET NOTES

These general notes are to be used as a supplement to the specifications and apply to all structural components of the building and foundation. Any discrepancies found among the drawings, the specifications, these general notes, and the site conditions shall be reported to the engineer of record, who shall correct such discrepancy in writing. Any work done by the contractor after discovery of such discrepancy, but prior to correction of such discrepancy, shall be done at the contractor’s risk. The contractor shall verify and coordinate dimensions among all drawings prior to proceeding with any work or fabrication. The contractor is responsible for all bracing and shoring during construction.

DESIGN

Structural design is in accordance with the structural provisions of the International Building Code, 2006 edition.

DESIGN LOADS

- Design live loads:
  - 20 PSF
  - 10 PSF
  - 10 PSF

- Design snow loads:
  - 1000 PSF

- Design seismic loads:
  - 100% as-built drawings

- Design wind loads:
  - 1500 PSF

11/23/2010

Produced by an Autodesk student product

100% Constr. drawings

100% with DOE revisions

IN HOME

Team Purdue

Design Live Loads

Floor Live Load

Deck Live Load

Roof Live Load

Sols Bearing

MINIMUM

MAXIMUM

Wood Framing Lumber Grading

Moisture content shall be 19% maximum. Load-bearing and exterior studs and plates shall be grade Southern pine #2 or better. Unless noted otherwise, floor and header shall be grade Southern pine #2 or better. Sheathing shall be nominal thickness as shown on drawings. Roof and floor sheathing shall be nailed with 10d common nails at 6" O/C along edges and at 10" O/C along intermediate framing members. Sheathing nails shall be the same as shear wall nails. All plywood shears shall be fully blocked around entire piece and nailed with 10d common nails at 6" O/C unless noted otherwise.

Wood Framing Details

Wood framing details, not shown otherwise, shall be constructed to the minimal standards of the BC and shall conform to Table 2304.9.1 fastening schedule of the BC.

Preservative Treatment

Preservative treatment: All lumber and plywood required to be preservative treated shall be pressure treated in accordance with BC section 2303.1.8 to bear the FDN grade mark. Each piece of treated lumber shall be marked with the manufacturer’s name and grade designation. The manufacturer shall maintain continuing supervision, testing, and inspection of the preservative treatment process. Where fire-reinforced concrete is used, an approved quality mark or an approved quality mark of an approved inspection agency which maintains continuing supervision, testing, and inspection over the quality of the product, as described in the BC standards, shall be identified as required by these standards.

Manufactured Lumber

All manufactured lumber is to be installed per manufacturers installation guidelines.

Sections and Details

Sections and details showing reinforcing, bolts, framing members, and connections are intended to illustrate specific details. No attempt has been made to show all elements passing through a specific section or detail. Construction details not specifically shown on the drawings shall follow similar details of sections to this project as approved by the architect/engineer of record.

Shop Drawings

Submit shop drawings to the architect/engineer of record for the following:

- Manufactured wood trusses
- Manufactured wood beams and columns
- Miscellaneous

Verify all dimensions and conditions in the field.

Verify size and locations of all openings in the roof and walls.

References

Refer to architectural, mechanical, and electrical drawings for all dimensions not shown, for size and position of openings, breaks in structural members due to architectural treatment, etc.
GENERAL SHEET NOTES

1. STRUCTURAL SHEETS VALID ONLY WHEN STAMPED BY A LICENSED STRUCTURAL ENGINEER

2. ALL ROOFS SHALL BE 8" STRUCTURAL INSULATED PANELS UNO

3. GARAGE ROOF SHALL BE SHOP-FABRICATED WOOD TRUSSES @ 24" OC W/ 5/8" APA RATED SHEATHING

4. ALL EXTERIOR RESIDENCE WALLS SHALL BE 4" STRUCTURAL INSULATED PANELS UNO

5. ALL INTERIOR RESIDENCE MARRIAGE WALLS SHALL BE 2X4 FRAMING UNO

6. ALL GARAGE WALLS SHALL BE 2X4 FRAMING W/ 1/2" APA RATED SHEATHING ON ONE SIDE, UNO

DROP CHORD GABLE TRUSS

1. 2X8 OUTLOOKER @ 24" OC

2. PONY WALL ABOVE

3. PORTAL FRAME, SEE DET A2/S501

4. SIMPSON HUC26-3 MAX HANGER W/ 2X COL IN SIP

5. (3) SIMPSON SDS25800 SCREWS FROM BM5 TO BM5

6. SIMPSON HUC210-3 HANGER W/ 2X COL IN SIP

7. SIMPSON HUC12 MAX HANGER

8. ATTACH LEDGER TO 2X NAILER (WITHIN SIPS) W/ SIMPSON SDS25500 SCREWS @ 8" OC, TYP

9. USE (4) SIMPSON SDS25312 SCREWS FROM LEDGER TO 2X NAILER @ BEAM LOC

10. SIMPSON LSTA12 STRAP FROM WALL TO RIM JOIST BELOW

11. SIMPSON HGUS28-4 HANGER

12. ATTACH Ledger TO 2X MAJOR (ENTRANCE BPE) W/ SIMPSON GUSSET SCREWS @ 12" OC, TYP

13. SIMPSON H20-20H HANGER (3) SIMPSON BACKER SCREWS FROM MAJOR TO MAJOR

14. SIMPSON HUC12 MAX HANGER (3) SIMPSON BACKER SCREWS FROM MAJOR TO 2X NAILER @ LOK CLEAT LOCATION

15. TO USE (4) SIMPSON SDS25312 SCREWS FROM MAJOR TO 2X NAILER @ LOK CLEAT LOCATION
1. ALL STRUCTURAL SHEETS TO BE APPROVED AND STAMPED BY A LICENSED STRUCTURAL ENGINEER

2. ALL EXTERIOR RESIDENCE WALLS SHALL BE 4" STRUCTURAL INSULATED PANELS UNO

3. ALL INTERIOR RESIDENCE MARRIAGE WALLS SHALL BE 2X4 FRAMING UNO

4. ALL GARAGE WALLS SHALL BE 2X4 FRAMING UNO

5. ALL DECK JOISTS SHALL BE 2X8 SOUTHERN PINE

6. NO 2 @ THE SPECIFIED SPACING UNO

2X8 SOUTHERN PINE NO 2 @ 12" OC W/ SIMPSON JB28 HANGER EACH END

(2) 2X8 SOUTHERN PINE NO 2 @ 12" OC W/ SIMPSON HUS228-TF HANGER EACH END

2X8 SOUTHERN PINE NO 2 LEDGER W/ SIMPSON SDS25312 SCREWS @ 8" OC, STAGGERED

2X8 SOUTHERN PINE NO 2 LEDGER W/ SIMPSON SDS25312 SCREWS @ 4" OC, STAGGERED

SIMPSON HUC28-3 MAX HANGER

2X8 SOUTHERN PINE NO 2 LEDGER W/ SIMPSON HUC28-3 MAX HANGER

SIMPSON HGUS26-3 HANGER

2'04' 8'
**General Sheet Notes**

1. **Structural Details**: Valid only when stamped by a licensed structural engineer.

**Structural Details**

- **Typical Floor Framing Detail**
- **Typical Floor joist Detail**
- **Typical Shear Wall Penetration Detail**
- **Typical Top Plate Splice Detail**
- **Typical Multi-member Detail**
- **Typical Header Detail**
- **Typical Sheathing Detail**

**Notes**:
1. Refer to structural notes & plans for sheathing thickness & nailing.
2. 4' side of panel to be spliced over joists.
3. All nailing to have a minimum edge distance of 3/8" at panel support member.

**Reference Keynotes**

- **Typical Floor Framing Detail**
- **Typical Floor joist Detail**
- **Typical Shear Wall Penetration Detail**
- **Typical Top Plate Splice Detail**
- **Typical Multi-member Detail**
- **Typical Header Detail**
- **Typical Sheathing Detail**

**Sheet Keynotes**

- **Typical Floor Framing Detail**
- **Typical Floor joist Detail**
- **Typical Shear Wall Penetration Detail**
- **Typical Top Plate Splice Detail**
- **Typical Multi-member Detail**
- **Typical Header Detail**
- **Typical Sheathing Detail**
GENERAL SHEET NOTES

1. 2" #8 WOOD SCREW @ 4" OC, TOP & BOTTOM

2. 1/2" 16G WIDE-CROWN 8d NAILS OR 1 1/2" 16G WIDE-CROWN

STAMPED BY A LICENSED STRUCTURAL ENGINEER

3. FACTORY MOLDED 2X, TYP

4. STAPLE @ 4" OC, TOP & BOTTOM, TYP

UNO FACTORY MOLDED 2X, TYP

5. 10" PANEL SCREW @ 12" OC, TYP

6. 4X4X1/4" PLATE

7. 5/8" HOLE, TYP

8. 8" STRUCTURAL INSULATED PANEL (SIP)

9. ATTACHED TUBE STEEL ROOF, TYP

10. 1/2" TYP

11. 84° HSS1X1X1/8"

12. 1'-85/8"

13. 27°

14. SDS253800 TYP

15. 8" SIP PANEL ROOF

16. WINDOW SILL PLATE BEYOND

17. 12" PANEL SCREW @ 12" OC

18. 10" PANEL SCREW @ 12" OC, TYP

19. 4" STRUCTURAL INSULATED PANEL (SIP)

20. ATTACHED TUBE STEEL WALL

21. 1/2" TYP

22. 8" SIP PANEL WALL

23. 5/8" HOLE, TYP

24. 4" SIP PANEL ROOF

25. BEVELED BEARING PLATE

26. BEVELED BEARING PLATE, TYP

27. FULL WIDTH TOP PLATE

28. DOUBLE TOP PLATE, TYP

29. 4" SIP PANEL WALL

30. SIMPSON LUS28 EACH OUTLOOKER EDGE NAILING PER PLAN

31. TRUSS PER PLAN

32. 2X OUTLOOKER PER PLAN

33. SIMPSON H1 EACH OUTLOOKER

34. 2X VENTED BLOCKING

35. EDGE NAILING PER PLAN

36. WALL SHEATHING W/ NAILING

37. SEE STRUCTURAL NOTES

38. TRUSS FRAMING DETAIL OUTLOOKER FRAMING DETAIL

39. TRUSS BRACING AS REQ'D BY MFR

40. PER SHEAR WALL SCHEDULE

41. SEE STRUCTURAL NOTES

42. TRUSS PER PLAN

43. VENTED 2X BLOCKING

44. EDGE NAILING PER SHEAR WALL EDGE NAILING REQ

45. TRUSS PER PLAN

46. WALL SHEATHING W/ NAILING

47. WALL SHEATHING PER PLAN

48. TRUSS BRACING AS REQ'D BY MFR

49. PER SHEAR WALL SCHEDULE

50. SEE STRUCTURAL NOTES
STRUCTURAL FRAMING SCHEDULE

MARK TYPE COMMENTS
BM1 SIPS HEADER MANUFACTURER PROVIDED
BM2 2x8 SOUTHERN PINE NO 2
BM3 (2) 2x6 SPRUCE PINE FIR NO 2
BM4 (2) 2x8 SOUTHERN PINE NO 2
BM5 (2) 2x12 SOUTHERN PINE NO 2
BM6 (3) 2x6 SPRUCE PINE FIR NO 2
BM7 (3) 2x10 SOUTHERN PINE NO 2
BM8 (4) 2x8 SOUTHERN PINE NO 2
BM9 (5) 2x8 SOUTHERN PINE NO 2
BM10 (2) 1 3/4x9 1/2 LAMINATED VENEER LUMBER
BM11 (2) 1 3/4x11 7/8 LAMINATED VENEER LUMBER

STRUCTURAL COLUMN SCHEDULE

MARK TYPE COMMENTS
C1 (2) 2x4 TRIMMER SPRUCE PINE FIR NO 2
C2 (2) 2x3 1/8 SPRUCE PINE FIR NO 2
C3 (2) 2x4 SPRUCE PINE FIR NO 2
C4 (4) 2x4 SPRUCE PINE FIR NO 2
C5 6x6 SOUTHERN PINE NO 2

FOOTING SCHEDULE

MARK TYPE COMMENTS
F1 10" CIRCULAR ABS FOOTING
F2 16" CIRCULAR ABS FOOTING
F3 16"x16" SQUARE ABS FOOTING
F4 18 1/2"x18 1/2" SQUARE ABS FOOTING
F5 20"x20" SQUARE ABS FOOTING
F6 24"x24" SQUARE ABS FOOTING
WHETHER SPECIFICALLY SHOWN, OR NOT, PROVIDE INSULATION WITH VAPOR BARRIER BETWEEN ALL EXTERIOR AND INTERIOR HEATED SPACES TO MAINTAIN DESIGN U VALUES.

THESE DRAWINGS INDICATE THE GENERAL SCOPE OF THE PROJECT IN TERMS OF ARCHITECTURAL DESIGN CONCEPT, INCLUDING THE DIMENSIONS OF THE BUILDING, THE MAJOR ARCHITECTURAL ELEMENTS AND THE TYPE OF STRUCTURAL SYSTEM. STRUCTURAL INTEGRITY OF THIS BUILDING IS SUBJECT TO REVIEW BY A QUALIFIED STRUCTURAL ENGINEER.

AS SCALE DOCUMENTS, THESE DRAWINGS DO NOT DESCRIBE ALL WORK REQUIRED FOR FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS FOR CONSTRUCTION.

CONTRACTOR SHALL FURNISH ALL ITEMS REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK, VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF CONSTRUCTION, AND NOTIFY THE DESIGNER IMMEDIATELY OF ANY CONFLICTS OR CONDITIONS WHICH REQUIRE ALTERATION OF THESE PLANS PRIOR TO PROCEEDING WITH THE WORK.

A) DO NOT SCALE DRAWINGS, USE ONLY THE PRINTED DIMENSIONS.
B) ALL DIMENSIONS ARE TAKEN FROM ROUGH STUDS OF A DIMENSION OF EITHER 5 1/2" (2x6 STUDS), 3 1/2" (2x4 STUDS) OR TO THE OUTSIDE OF THE STRUCTURAL INSULATED PANEL.
C) ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD BEFORE PROCEEDING WITH THE WORK. THE DESIGNER SHALL BE NOTIFIED OF ANY DISCREPANCIES.
D) VERIFY WITH THE WINDOW MANUFACTURER ALL WINDOW SIZES AND APPLICABLE EGRESS REQUIREMENTS.
E) DOOR OPENINGS ARE GENERALLY DIMENSIONED TO CENTERLINE OF OPENING. DOOR OPENINGS THAT ARE NOT DIMENSIONALLY LOCATED ARE TO BE CENTERED BETWEEN WALLS OR POSITIONED WITH ONE JAMB AGAINST AN ADJACENT WALL OR COLUMN AS SHOWN ON THE PLANS.
F) ALL DIMENSIONS SHALL BE VERIFIED AND COORDINATED WITH THE WORK OF ALL TRADES.
G) IN EVENT OF DIMENSIONAL DISCREPANCIES IN THE PLANS, THE FLOOR PLANS SHALL GOVERN.

CONTRACTOR SHALL VERIFY ALL MECHANICAL AND ELECTRICAL REQUIREMENTS AND CLEARANCES. CONTRACTOR SHALL VERIFY ALL FLOOR AND ROOF BEARING LOCATIONS.

A) PROVIDE ACCESS PANELS AS REQUIRED BY APPLICABLE CODES AND AS REQUIRED FOR ACCESS OR MAINTENANCE OF MECHANICAL AND ELECTRICAL EQUIPMENT INCLUDING JUNCTION BOXES. ALL ACCESS PANEL LOCATIONS SHALL BE REVIEWED WITH THE ARCHITECT PRIOR TO PROCEEDING.
B) PROVIDE ASSEMBLIES IN CONFORMITY WITH ALL CODES AND STANDARDS APPLICABLE TO SUCH ASSEMBLIES.
C) PROVIDE ADESIVE/SEALANT TO PROVIDE A CONTINUOUS AIR/VAPOR TIGHT INSTALLATION. ALL JOINTS AND PENETRATIONS IN INSULATION BARRIER SHALL BE FULLY BUTTED/SEALED WITH ADHESIVE/SEALANT TO PROVIDE A CONTINUOUS AIR/VAPOR TIGHT INSTALLATION.
D) PROVIDE ACCESS PANELS AS REQUIRED BY APPLICABLE CODES AND AS REQUIRED FOR ACCESS OR MAINTENANCE OF MECHANICAL AND ELECTRICAL EQUIPMENT INCLUDING JUNCTION BOXES. ALL ACCESS PANEL LOCATIONS SHALL BE REVIEWED WITH THE ARCHITECT PRIOR TO PROCEEDING.
E) PROVIDE ACCESS PANELS AS REQUIRED BY APPLICABLE CODES AND AS REQUIRED FOR ACCESS OR MAINTENANCE OF MECHANICAL AND ELECTRICAL EQUIPMENT INCLUDING JUNCTION BOXES.

A) GENERAL CONTRACTOR TO COORDINATE ALL MECHANICAL AND ELECTRICAL, FLOOR, ROOF AND WALL SLEEVES AND ALL MECHANICAL SHAFTS AND OPENINGS WITH MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, STRUCTURAL AND ARCHITECTURAL DRAWINGS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. GENERAL CONTRACTOR SHALL PROVIDE SLEEVES AND DOORS AS REQUIRED TO ALLOW INSTALLATION OF ALL DUCTS AND PIPING AS SHOWN ON THE MECHANICAL AND ELECTRICAL DRAWINGS.
B) PROVIDE ACCESS PANELS AS REQUIRED BY APPLICABLE CODES AND AS REQUIRED FOR ACCESS OR MAINTENANCE OF MECHANICAL AND ELECTRICAL EQUIPMENT INCLUDING JUNCTION BOXES. ALL ACCESS PANEL LOCATIONS SHALL BE REVIEWED WITH THE ARCHITECT PRIOR TO PROCEEDING.
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B) PROVIDE ASSEMBLIES IN CONFORMITY WITH ALL CODES AND STANDARDS APPLICABLE TO SUCH ASSEMBLIES.
C) PROVIDE ADESIVE/SEALANT TO PROVIDE A CONTINUOUS AIR/VAPOR TIGHT INSTALLATION. ALL JOINTS AND PENETRATIONS IN INSULATION BARRIER SHALL BE FULLY BUTTED/SEALED WITH ADHESIVE/SEALANT TO PROVIDE A CONTINUOUS AIR/VAPOR TIGHT INSTALLATION.
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1. All portable tanks, pumps, and valves intended to mimic public utility water supply and sewage are temporary for competition purposes only.

2. A 1050-gallon water supply tank and a 1050-gallon waste tank are located.

3. A 57-gallon rain collection barrel is provided.

4. An ADA accessible walkway is designated.

5. An accessible pathway is provided.

6. A 36" height wood railing, typical, is installed.

7. An HVAC heat pump unit stand is present.

8. Planter boxes, typical, are indicated.

9. A DOE provided walkway is shown.

10. A 5' 0" high wood railing, typical, is noted.

11. The location of the organizer utility panel is marked.

12. A fire protection system is included.

13. A 100% as-built drawings are noted.

14. 100% W/ DOE revisions are included.

15. 100% construction drawings are included.

16. 100% W/ DOE revisions are included.

17. 80% W/ DOE revisions are included.

18. 80% design drawings are included.

19. Reference notes include:
   - Entry from Decathlete Way
   - Decking
   - 1050-gallon water supply tank
   - 1050-gallon waste tank
   - Exit to Decathlete Way
   - Planter boxes, typical
   - Lot line
   - HVAC heat pump unit stand
   - 57-gallon rain collection barrel
   - ADA accessible walkway
   - Fire protection system
   - 36" height wood railing, typical
   - Location of organizer utility panel

20. Site plan A-101 is shown.
SOLAR ROOF LAYOUT

**REFERENCE KEYNOTES**
- 26 24 00 2.2 PV JUNCTION BOX (SOLADECK 0786)
- 48 14 13 2.1 SOLAR ENERGY COLLECTIONS
- 48 14 13 2.2 CENTER INVERTER

**SHEET KEYNOTES**
- 08/11/2011 100% AS-BUILT DRAWINGS
- 01/25/2011 100% W/ DOE REVISIONS
- 03/22/2011 80% W/ DOE REVISIONS
- 11/23/2010 80% DESIGN DRAWINGS
FIRST FLOOR REFLECTED CEILING PLAN
1. All portable tanks, pumps, and valves intended to mimic public utility water supply and sewage are temporary for competition purposes only.

2. Proposed data logger position 1: located above refrigerator.

3. Proposed data logger position 2: located on top of counter.
1. Due to coordination with framing and mechanical installations, final dimensions may vary slightly from dimensions as shown on construction drawings.

2. Specific cabinet layout to be designed by cabinet supplier. Cabinet supplier design takes precedence over illustrations shown here.

3. All angles are 45 degrees unless otherwise noted.

4. Center all interior openings where applicable.

REFERENCE KEYNOTES

DIV 06 - WOOD, PLASTICS, AND COMPOSITES
06 61 16  SOLID SURFACING FABRICATIONS

DIV 08 - OPENINGS
08 51 13  ALUMINUM WINDOWS

DIV 09 - FINISHES
09 91 00  PAINTING
09 30 00  TILING

DIV 12 - FURNISHINGS
12 35 00  RESIDENTIAL CASEWORK

DIV 22 - PLUMBING
22 41 00  RESIDENTIAL PLUMBING FIXTURES

DIV 23 - HEATING, VENTILATING, AND AIR-CONDITIONING (HVAC)
23 42 00  GAS-PHASE AIR FILTRATION
1. DUE TO COORDINATION WITH FRAMING AND MECHANICAL INSTALLATIONS, FINAL DIMENSIONS MAY VARY SLIGHTLY FROM DIMENSIONS AS SHOWN ON CONSTRUCTION DRAWINGS.

2. SPECIFIC CABINET LAYOUT TO BE DESIGNED BY CABINET SUPPLIER. CABINET SUPPLIERS DESIGN TAKES PRECEDENCE OVER ILLUSTRATIONS SHOWN HERE.

3. ALL ANGLES ARE 45 DEGREES UNLESS OTHERWISE NOTED.

4. CENTER ALL INTERIOR OPENINGS WHERE APPLICABLE.
1. Due to coordination with framing and mechanical installations, the final dimensions may vary slightly from dimensions as shown on the construction drawings.

2. Specific cabinet layout to be designed by the cabinet supplier. Cabinet supplier's design takes precedence over illustrations shown here.

3. All angles are 45 degrees unless otherwise noted.

4. Center all interior openings where applicable.

5. Garage door opening is not permitted within 4' of the building corner unless the building has "continuously sheathed walls" as per IRC R602.10.5 and complies with Indiana amendments exception to IRC R602.10.5 and Figure IRC R602.10.5(2), which includes special instructions pertaining to the garage door header, the wall sheathing, anchor bolts, and straps on both sides of the garage door.
1. Due to coordination with framing and mechanical installations, final dimensions may vary slightly from dimensions as shown. Spacing of cabinet layout is designed by cabinet supplier. Cabinet supplier's design takes precedence over illustrations shown here.

2. Specific cabinet layout to be designed by cabinet supplier. Cabinet supplier's design takes precedence over illustrations shown here.

3. All angles are 45 degrees unless otherwise noted.

4. Center all interior openings where applicable.

5. See P-601 for plumbing schedule.
1. DUE TO COORDINATION WITH FRAMING AND MECHANICAL INSTALLATIONS, FINAL DIMENSIONS MAY VARY SLIGHTLY FROM DIMENSIONS AS SHOWN ON CONSTRUCTION DRAWINGS.

2. SPECIFIC CABINET LAYOUT TO BE DESIGNED BY CABINET SUPPLIER. CABINET SUPPLIERS DESIGN TAKES PRECEDENCE OVER ILLUSTRATIONS SHOWN HERE.

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3. All angles are 45 degrees unless otherwise noted.

4. Center all interior openings where applicable.
### Window Schedule

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<thead>
<tr>
<th>MARK</th>
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<th>MATERIAL</th>
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<td>CLEAR</td>
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<td>CASEMENT</td>
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### Door Schedule

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<td>TS210</td>
<td>20 MIN PASSAGE</td>
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<td>BIFOLD</td>
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### Reference Keynotes

- **Detail A**: Window opening detail: See first floor connection details.
- **Detail B**: Door opening detail:
  - 1/2" X 1/2" Gasket
  - Interior header is notched to match roof slope.
  - Top plate to match roof slope.

### Sheet Keynotes

- **A-601**: Door types.
- **A1**: Door schedule.
- **C1**: SIPS opening detail.
- **C3**: Window types.
- **C5**: General sheet notes.

**U.S. Department of Energy**: Solar Decathlon 2011

**Website**: [WWW.SOLARDECATHLON.GOV](http://WWW.SOLARDECATHLON.GOV)

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## APPARATUS SCHEDULE

<table>
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<tr>
<th>MANUFACTURER</th>
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<td>FRONT LOAD CLOTHES DRYER</td>
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<td>JTS10SPSS</td>
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<td>MICROWAVE/OVEN COMBO</td>
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**SCHEDULES**

**A-602**
NOTE:
WOOD BASE THROUGHOUT
CEILING PAINT THROUGHOUT

EXTERIOR CLADDING
- 4" INSULATED SIP PANEL HOUSE WRAP
- 1/2" GYPSUM BOARD
- 1/2" OSB 2X4 FRAMED WALL
- 1/2" GYPSUM BOARD
- 1/2" OSB 2X4 FRAMED WALL

DIV 06 - WOOD, PLASTICS, AND COMPOSITES
06 22 00 MILLWORK
06 61 16 SOLID SURFACING FABRICATIONS

DIV 08 - OPENINGS
08 51 13 ALUMINUM WINDOWS

DIV 09 - FINISHES
09 30 00 TILING
09 91 00 PAINTING

DIV 12 - FURNISHINGS
12 35 00 RESIDENTIAL CASEWORK

DIV 26 - ELECTRICAL
26 51 00 INTERIOR LIGHTING

INTERIOR FINISH PLAN
- 1/4" = 1'-0"
- WOOD BASE THROUGHOUT
- CEILING PAINT THROUGHOUT

INTERIOR MARRIAGE WALL DETAIL
- 1/2" OSB 2X4 FRAMED WALL
- 1/2" OSB 2X4 FRAMED WALL

EXTERIOR SIP WALL SECTION
- 6" INSULATED SIP PANEL HOUSE WRAP

INTERIOR MARRIAGE WALL DETAIL
- 1/2" OSB 2X4 FRAMED WALL
- 1/2" OSB 2X4 FRAMED WALL

DINING EAST WALL
- 1/2" OSB 2X4 FRAMED WALL
- 1/2" OSB 2X4 FRAMED WALL

LIVING WEST WALL
- 1/2" OSB 2X4 FRAMED WALL
- 1/2" OSB 2X4 FRAMED WALL

BATH WEST WALL
- 1/2" OSB 2X4 FRAMED WALL
- 1/2" OSB 2X4 FRAMED WALL

SHEETS TITLE
LOT NUMBER:
DRAWN BY:
CHECKED BY:
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U.S. DEPARTMENT OF ENERGY
SOLAR DECATHLON 2011
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TEAM NAME:
ADDRESS:
CONTACT:
KEVIN MERCER, TRANE CONSULTANTS
PAT EGAN, THERMOCORE
JOHN GUEQUIERRE, HI-TECH HOUSING
ANDY SWITZER, ARKOR
PURDUE UNIVERSITY 2011
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GENERAL SHEET NOTES
REFERENCE KEYNOTES
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**FIRE PROTECTION SYMBOLS**

- SD: SMOKE DETECTOR
- FE: FIRE EXTINGUISHER
- HORIZONTAL PENDENT
- RECESSED PENDENT
- PENDENT

**REFERENCE KEYNOTES**

**SHEET KEYNOTES**

**GENERAL SHEET NOTES**

- LOT NUMBER: [Redacted]
- DRAWN BY: [Redacted]
- CHECKED BY: [Redacted]
- COPYRIGHT: [Redacted]
- CLIENT: U.S. DEPARTMENT OF ENERGY
- WWW.SOLARDECATHLON.GOV
- TEAM NAME: [Redacted]
- ADDRESS: [Redacted]
- CONTACT: [Redacted]
- KEVIN MERCER, TRANE
- CONSULTANTS: [Redacted]
- PAT EGAN, THERMOCORE
- JOHN GUEQUIERRE, HI-TECH HOUSING
- ANDY SWITZER, ARKOR
- PURDUE UNIVERSITY 2011
- ALL RIGHTS RESERVED

**80% DESIGN DRAWINGS**

- [Redacted]
- 80% W/ DOE REVISIONS

**100% CONSTR. DRAWINGS**

- [Redacted]
- 100% W/ DOE REVISIONS

**80% AS BUILT DRAWINGS**

- [Redacted]
- 05/03/2011

**SYMBOLS & NOTES**

- [Redacted]
GENERAL SHEET NOTES

1. GENERAL NOTES SHALL APPLY TO ALL WORK SHOWN
2. VERIFY ALL MEASUREMENTS TO PROPERLY LOCATE COMPONENTS
3. ALL NOTES COINCIDE WITH SIMILAR DRAWINGS
4. COORDINATE ALL WORK AND PLACEMENT OF COMPONENTS WITH OTHER TRADES
5. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING THE NECESSARY EQUIPMENT TO PROVIDE A COMPLETE FIRE PROTECTION SYSTEM ACCORDING TO NFPA 72 AND MANUFACTURER REQUIREMENTS.
6. FIRE EXTINGUISHERS SHALL BE MOUNTED NO HIGHER THAN 5 FEET A.F.F.
7. ALL ALARMS SHALL BE INTERCONNECTED AND AFCI PROTECTED ACCORDING TO NEC 210.12(B).
8. MOUNT FIRE EXTINGUISHERS NO MORE THAN 5 FEET A.F.F.

REFERENCE KEYNOTES

DIV 10 - SPECIALTIES
10 44 00          FIRE PROTECTION SPECIALTIES
10 44 16          FIRE EXTINGUISHER

DIV 28 - FIRE DETECTION AND ALARM
28 31 2.1          SMOKE DETECTOR

SHEET KEYNOTES

10 44 16          FIRE EXTINGUISHER
28 31 2.1          SMOKE DETECTOR

FIRE ALARM/EXTINGUISHER PLAN

F-101
1. All pipe before backflow shall be galvanized.
2. All exposed pipe in closet and garage shall be steel.
3. Run 4" from ceiling.
4. Access panel through bathroom.
5. Grooved coupling disconnect in marriage wall.
Before penetrating fire rated walls and partitions, consult building codes and authorities having jurisdiction. Designers, engineers, architects, and contractors shall consult with fire protection specialists, manufacturers of Blazemaster CPVC, and local authorities. There shall be no mixing of Blazemaster CPVC with metallic fire protection systems.

Penetrating Fire Rated Partitions

Recommended Practices and Precautions

1. Before comparing Hazchem blazemaster CPVC fire sprinkler to any other fire protection system, consult the manufacturer’s instruction manual and the NFPA 13 standard for wet systems.
2. Always consult the manufacturer of the fire protection material for compatibility with Blazemaster CPVC fire sprinklers.

Piping in Stud Wall Detail

Maximum Support Spacing Table

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>Support Spacing</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot;</td>
<td>2'</td>
</tr>
<tr>
<td>1-1/4&quot;</td>
<td>1'4&quot;</td>
</tr>
</tbody>
</table>

For Type 1, use TOLCO Offset 2-Hole Strap Hanger and Screw.

General Sheet Notes

Copyright: Purdue University 2011. All rights reserved.
1. GENERAL NOTES SHALL APPLY TO ALL WORK SHOWN
2. ALL DIMENSIONS PROVIDED FOR REFERENCE ONLY. CONTRACTOR TO USE FIELD MEASUREMENTS
3. ALL NOTES COINCIDE WITH SIMILAR DRAWINGS
4. COORDINATE ALL WORK AND PLACEMENT OF COMPONENTS WITH OTHER TRADES
5. WATER CLOSET SHALL NOT BE USED DURING COMPETITION. WATER CLOSET SHALL BE ATTACHED TO A 3IN PVC OR ABS WATER CLOSET FLANGE WITH A CAPPED END.
6. SUPPLY TANKS MUST ALLOW FOR WATER DELIVERY ACCESS. DURING COMPETITION, MUST ALLOW FOR A 12" SPACE ABOVE WATER INLET.
7. SUPPLY AND WASTE LINES FROM TANKS TO HOUSE ARE TEMPORARY.
8. FOR WATER DELIVERY, 6 STUDENTS SHALL MANUALLY MOVE SUPPLY HOSE FROM PRECEDING HOME TO THE INHOME WATER SUPPLY TANK LOCATED INSIDE THE GARAGE THROUGH THE REAR GARAGE DOOR. TANK OPENING -16"Ø.
9. FOR WATER REMOVAL, 6 STUDENTS SHALL MANUALLY MOVE HOSE FROM PRECEDING HOME TO THE INHOME.  ALL THREE RAIN BARRELS TEAM PURDUE TANK LOCATED ON THE EAST SIDE OF GARAGE. TANK OPENING -16"Ø.
10. MOUNT MAIN SUPPLY AND FIRE SUPPRESSION PUMPS ON STAND.
11. SEAL PENETRATION THROUGH SIPS PANEL WITH KNOY HALL, ROOM 107 SOLARHOUSE@PURDUE.EDU WWW.PURDUE.EDU/INHOME/ CONSULTANTS KEVIN MERCER, TRANE PAT WILSON, RYAN FIRE PROTECTION PAT EGAN, THERMOCORE JOHN GUEQUIERRE, HI-TECH HOUSING ANDY SWITZER, ARKOR SUSAN BENEDICT, DESIGN ALTERATIONS MARK BEALS, J & T SYSTEMS, INC. RyE Lego TECH TOWN PATRICK EGGERS, DESIGN SERVICES, INC.
12. ALL PORTABLE TANKS, PUMPS, AND VALVES INTENDED TO MIMIC PUBLIC UTILITY WATER SUPPLY AND SEWAGE ARE "TEMPORARY FOR COMPETITION PURPOSES ONLY."
13. ALL EXPOSED DUCTWORK, PIPING, ELECTRICAL CONDUIT, TEMPERATURE CONTROLS CONDUIT AND ASSOCIATED COMPONENTS TO BE METAL FINISH. COORDINATE WITH OWNER PRIOR TO INSTALLATION.
14. THE DRAWINGS AND DETAILS SHALL BE TAKEN AS A DIAGRAMMATIC MEANS OF PROVIDING EVERY FITTING AND OFFSET NOR EVERY STRUCTURAL, ELECTRICAL, PIPING OR DUCTWORK DIFFICULTY THAT MAY BE ENCOUNTERED DURING THE INSTALLATION OF THE WORK.
15. THE WORKER MUST DESIGN FOR THE EQUIPMENT INDICATED FOR THE EQUIPMENT INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE AND PROVIDE ANY MODIFICATIONS TO THE WORK INCLUDING BUT NOT NECESSARILY LIMITED TO DUCTWORK, PIPING, ELECTRICAL, PLUMBING, FIRE PROTECTION, STRUCTURAL FRAMES, CASEWORK, ETC. REQUIRED TO PROPERLY PROVIDE EQUIPMENT OTHER THAN THAT INDICATED ON THE DRAWINGS.
16. THE WASTE WATER TANK WILL NOT BE USED FOR ANY VEGETATION OR ALTERNATE USE AND WILL BE REMOVED AT THE END OF THE EVENT.
17. INSTALL BALL SHUTOFF AND CHECK VALVES AT PRIOR TO PUMP INLETS.
18. INSTALL WATER HAMMER ARRESTOR SPECIFICATIONS AT WASHER/DRYER
19. EXPANSION TANK SHALL BE ABLE TO ALLOW SUPPLY WATER.

**REFERENCE KEYNOTES**

**SHEET KEYNOTES**
GENERAL SHEET NOTES

1. CONTRACTOR SHALL FOLLOW 2009 IRC AND OTHER APPLICABLE BUILDING CODES.
2. ALL DIMENSIONS PROVIDED FOR REFERENCE ONLY. CONTRACTOR TO USE FIELD MEASUREMENTS.
3. CONTRACTOR SHALL FOLLOW EQUIPMENT MANUFACTURER’S INSTRUCTIONS FOR HANDLING AND INSTALLATION.
4. CONTRACTOR SHALL COORDINATE AND PERFORM NECESSARY MODIFICATIONS TO PROVIDE A COMPLETE INSTALLATION. MODIFICATIONS INCLUDE BUT ARE NOT LIMITED TO STRUCTURAL, ELECTRICAL, ARCHITECTURAL, PLUMBING, PIPING AND DUCTWORK.
5. WATER CLOSET SHALL NOT BE PLUMBED FOR COMPETITION.
6. ALL WASTE LINES SHALL BE RAN AT 1/8” SLOPE PER FOOT THROUGH TJI.
7. NO PEX CONNECTIONS PERMITTED IN FLOOR SYSTEM.
8. THE WASTE WATER TANK WILL NOT BE USED FOR ANY VEGETATION OR ALTERNATE USE AND WILL BE REMOVED AT THE END OF THE EVENT.
9. ALL PORTABLE TANKS, PUMPS, AND VALVES INTENDED TO MIMIC PUBLIC UTILITY WATER SUPPLY AND SEWAGE ARE TEMPORARY FOR COMPETITION PURPOSES ONLY.
10. FOR WATER REMOVAL, 6 STUDENTS SHALL MANUALLY MOVE HOSE FROM PRECEDING HOME TO THE INHOME. ALL THREE RAIN BARRELS SHALL BE EMPTIED FIRST AND THEN THE WASTE TANK LOCATED ON THE EAST SIDE OF GARAGE. TANK OPENING - 16” Ø.
11. EJECTOR PIT PUMP SHALL INITIATE AT 20 GALLON CAPACITY.

REFERENCE KEYNOTES

2 INSTALL AIR ADMITTANCE VALVE UNDER COUNTER
3 INSTALL AIR ADMITTANCE VALVE INSIDE WALLCAVITY

SHEET KEYNOTES

DO NOT CONNECT WATER CLOSET DURING COMPETITION
INSTALL AIR ADMITTANCE VALVE UNDER COUNTER
INSTALL AIR ADMITTANCE VALVE INSIDE WALL CAVITY

WASTE REMOVAL & VENTING
PLUMBING FIXTURE SCHEDULE

<table>
<thead>
<tr>
<th>MARK</th>
<th>DESCRIPTION</th>
<th>MANUFACTURER</th>
<th>MOD</th>
<th>HW</th>
<th>WASTE</th>
<th>VENT</th>
<th>NOTES</th>
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</thead>
<tbody>
<tr>
<td>PF1</td>
<td>KITCHEN SINK</td>
<td>KOHLER,K-1980</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>UNDERCOUNTER</td>
</tr>
<tr>
<td>PF2</td>
<td>BATH TUB</td>
<td>KOHLER,K-7.5</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>UNDERCOUNTER</td>
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<tr>
<td>PF3</td>
<td>BATH AND SHOWER TRIM</td>
<td>KOHLER, K-3180</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>PF4</td>
<td>WATER CLOSET</td>
<td>KOHLER,K-3077</td>
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<td>PF5</td>
<td>KITCHEN SINK FAUCET</td>
<td>KOHLER, K-617 CP</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>PF6</td>
<td>LAUNDRY FAUCET</td>
<td>KOHLER, K-9740</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<td>PF7</td>
<td>LAUNDRY SINK</td>
<td>KOHLER,K-2402</td>
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<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>PF8</td>
<td>DIVERTER SPOUT</td>
<td>KOHLER, K-4-1/6</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<td>PF9</td>
<td>BATH AND SHOWER VALVE</td>
<td>KOHLER, K-4-14</td>
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<tr>
<td>PF10</td>
<td>BATH DRAIN</td>
<td>KOHLER,K-11580</td>
<td>X</td>
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<tr>
<td>PF11</td>
<td>MANABLOC PEX MANIFOLD</td>
<td>VIEGA, MANIFOLD</td>
<td>X</td>
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<tr>
<td>PF12</td>
<td>ICE MAKER BOX</td>
<td>VIEGA, BOX</td>
<td>X</td>
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<tr>
<td>PF13</td>
<td>WASHING MACHINE BOX</td>
<td>VIEGA, BOX</td>
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<td>X</td>
<td>UNDERCOUNTER</td>
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PLUMBING PUMP SCHEDULE

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<thead>
<tr>
<th>MARK</th>
<th>TYPE</th>
<th>AREA SERVED</th>
<th>SIZE</th>
<th>TOTAL GPM</th>
<th>MN TURB</th>
<th>MIN MOTOR (hp)</th>
<th>VOLTS/PHASE</th>
<th>SUCTION PRESSURE</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>C</td>
<td>ENTIRE HOME</td>
<td>7</td>
<td>15</td>
<td>1500</td>
<td>3/4 HP</td>
<td>230/1/60</td>
<td>52 PSI</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>J</td>
<td>FIRE PROTECTION</td>
<td>50</td>
<td>50</td>
<td>3400</td>
<td>3 HP</td>
<td>230/1/60</td>
<td>52 PSI</td>
<td>LEGEND</td>
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</table>

WATER HEATER SCHEDULE

<table>
<thead>
<tr>
<th>MARK</th>
<th>MANUFACTURER</th>
<th>MODEL</th>
<th>VOLTS</th>
<th>PHASE</th>
<th>HW</th>
<th>RECOVERY @ 20°C (°F)</th>
<th>RUS</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GE</td>
<td>SDSEN312</td>
<td>240</td>
<td>1</td>
<td>4.5 MAX</td>
<td>4.5</td>
<td>4.5</td>
<td>GEORGETOWN PUMP WATER HEATER</td>
</tr>
</tbody>
</table>

GENERAL SHEET NOTES

PLUMBING SCHEDULES

1. TEAM WILL USE 5 GALLONS OF WATER FOR BOTH DINNER PARTIES.
**GENERAL SHEET NOTES**

1. **1. GENERAL NOTES SHALL APPLY TO ALL WORK SHOWN.**
2. **2. VERIFY ALL MEASUREMENTS TO PROPERLY LOCATE COMPONENTS.**
3. **3. ALL NOTES COINCIDE WITH SIMILAR DRAWINGS.**
4. **4. COORDINATE ALL WORK AND PLACEMENT OF COMPONENTS WITH OTHER TRADES.**
5. **5. CONTRACTOR SHALL FOLLOW EQUIPMENT MANUFACTURER’S INSTRUCTIONS FOR HANDLING AND INSTALLATION.**
6. **6. CONTRACTOR SHALL COORDINATE AND PERFORM NECESSARY MODIFICATIONS TO PROVIDE A COMPLETE INSTALLATION. MODIFICATIONS INCLUDE BUT ARE NOT LIMITED TO STRUCTURAL, ELECTRICAL, ARCHITECTURAL, PLUMBING, PIPING AND DUCTWORK.**
7. **7. ACCESS PANELS SHALL BE FABRICATED TO ALLOW FOR EASY ACCESS AT SECTIONED CONNECTIONS.**
8. **8. ERV INTAKE SHALL HAVE APPROVED GUARD.**
9. **9. ALL SUPPLY DUCT SHALL BE INSULATED IN A UL LISTED INSULATION.**
10. **10. SEAL REFRIGERANT LINES WITH APPROVED SPRAY POLYURETHANE FOAM.**

**REFERENCE KEYNOTES**

- ERV FRESH AIR INTAKE
- ERV EXHAUST
- TRANE FRESH EFFECTS ERV
- TRANE HYPERION AHU
- TRANE XL20i HEAT PUMP

**SHEET KEYNOTES**

- TRANE CLEANEFFECTS AIR PURIFIERS
- TRANE MONITORING KIT
- TRANE BLOWER AND FAN
- TRANE RUN CONTROLLER
- TRANE AIR HANDLER UNIT

**REFERENCES**

- HVAC SUPPLY PLAN
- SHEET TITLE: HVAC SUPPLY PLAN
- SHEET NUMBER: M-101
- NOT DRAWN TO SCALE
1. CONTRACTOR SHALL FABRICATE AIR RETURN PLENUM AND STAND FOR AHU.
2. MECHANICAL CLOSET SHALL HAVE LOUVERED DOORS.

**REFERENCE KEYNOTES**

- HVAC DUCT AND CASINGS
- 23 31 00 12"Ø SUPPLY
- 14"x14" RETURN
- 23 40 00 2.1 CLEANEFFECTS
- 23 73 00 TRANE SERIES 8 HYPERION AHU

**SHEET KEYNOTES**

- TRANE HYPERION AHU
- RETURN DUCT
- CLEANEFFECTS WHOLE HOUSE AIR CLEANER
- ELECTRIC RESISTANCE AUXILIARY HEATER

**GENERAL SHEET NOTES**

- CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE HEAT TRANSFER CODE.
- MECHANICAL CLOSET SHALL HAVE LOUVERED DOORS.

**SHEET TITLE**

MECHANICAL CLOSET

**LOT NUMBER:**

**DRAWN BY:**

**CHECKED BY:**

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

**TEAM NAME:**

- KEVIN MERCER, TRANE
- PAT EGAN, THERMOCORE
- JOHN GUEQUIERRE, HI-TECH HOUSING
- ANDY SWITZER, ARKOR

- SUSAN BENEDICT, DESIGN ALTERNATIVES
- RYAN JUSTAK, SCHOLER CORPORATION
- MARK BEALS, J & T SYSTEMS, INC.
- PAT WILSON, RYAN FIRE PROTECTION

**ADDRESS:**

Purdue University 2011

**CONTACT:**

SOLARHOUSE@PURDUE.EDU

**WEBSITE:**

WWW.PURDUE.EDU/INHOME/
GENERAL SHEET NOTES
1. GENERAL NOTES SHALL APPLY TO ALL WORK SHOWN.
2. VERIFY ALL MEASUREMENT TO PROPERLY LOCATE COMPONENTS.
3. COORDINATE ALL WORK AND PLACEMENT OF COMPONENTS WITH OTHER TRADES.
4. CONTRACTOR SHALL FOLLOW EQUIPMENT MANUFACTURER'S INSTRUCTIONS FOR HANDLING AND INSTALLATION.
5. CONTRACTOR SHALL COORDINATE AND PERFORM NECESSARY MODIFICATIONS TO PROVIDE A COMPLETE INSTALLATION. MODIFICATIONS INCLUDE BUT ARE NOT LIMITED TO ELECTRICAL, ARCHITECTURAL, PLUMBING, PIPING AND DUCTWORK.
6. ACCESS PANELS SHALL BE FABRICATED TO ALLOW FOR EASY ACCESS AT SECTIONED CONNECTIONS.

REFERENCE KEYNOTES

SHEET KEYNOTES

BIOWALL DETAILS

M-202
ELECTRICAL CALCULATIONS

1. GENERAL NOTES SHALL APPLY TO ALL WORK

2. ENSURE ALL ELECTRICAL SYSTEM DESIGN DETAILS

3. ELECTRICAL SYMBOLS

4. TERMINAL RATING

**ELECTRICAL SYMBOLS CONTINUED**

**ELECTRICAL SYMBOLS AND NOTES**
1. GENERAL NOTES SHALL APPLY TO ALL WORK SHOWN
2. WORK AREA AROUND TEAM DISTRIBUTION PANEL
   26 24 00 2.2A
   SHALL KEEP MIN 30" IN FRONT, 36" DEEP, 72" HEIGHT CLEAR.
3. ALL PANELS LOCATED INSIDE THE EAST GARAGE WALL. ACCESS FROM GARAGE.
4. GROUNDING ROD SHALL BE 8 FEET INTO GROUND.
   26 24 00 2.3A
5. TEAM SHALL PROVIDE AND INSTALL 2/0 COPPER, 4/0 ALUMINUM, OR EQUIVALENT POWER CABLE FROM TEAM PANEL BOARD THROUGH TEAM METER HOUSING OUT TO ORGANIZER UTILITY PANEL.
6. TEAM METER HOUSING SHALL BE STANDARD 4-JAW, RINGLESS, ROUND UTILITY GRADE METER AT 50"-65" HIGH.
7. SENSOR WIRE FROM DATALOGGER TO TEAM METER HOUSING SHALL RUN THROUGH MAIN PANEL AND INTO THE BACK OF THE TEAM METER HOUSING.
8. TEAM SHALL PROVIDE A CLEAR CABLING ROUTE FROM THE ORGANIZER PANEL BOARD TO GROUNDING ROD ENCLOSURE. THIS ROUTE WILL BE ALONGSIDE THE POWER CABLE.
9. 90° DROP DOWN ELBOWS FROM BACKSIDE OF ORGANIZER ENCLOSURE SHALL BE INSTALLED FOR ETHERNET CABLES, 1 SERIAL CORD AND A 14/3 POWER CORD.
10. ORGANIZER ENCLOSURE SHALL BE WITHIN FOUR FEET OF TEAM PANEL BOARD AND HAVE AN UNOBSTRUCTED 12"W X 24"H X 8"D WALL SPACE.
11. TEAM SHALL PROVIDE ACCESS BETWEEN ORGANIZER ENCLOSURE AND TEAM PANEL BOARD. ALLOW FOR ONE PANEL BOARD KNOCK-OUT AND ACCESS TO A 240V, 2 POLE, 15A BREAKER FOR PV NET METERING.
12. MICROGRID NET PV PRODUCTION METER IN THE ORGANIZER ENCLOSURE MAY BE ROUTED THROUGH THE PV AC JUNCTION BOX AND INTO THE TEAM UTILITY PANEL OR ANY OTHER ALLOWABLE LOCATION. THE PV AC VOLTAGE SENSE WIRES SHALL BE ROUTED TO THE TEAM UTILITY PANEL.
13. TEAM SHALL PROVIDE A CLEAR INSTALLATION ROUTE FOR ETHERNET CABLING BETWEEN ORGANIZER ENCLOSURE TO DATALOGGER ENCLOSURE. 1" MINIMUM DIAMETER CLEARANCE FOR ALL PENETRATIONS.

REFERENCE KEYNOTES

E-502

ELECTRICAL CLOSET
DETAILS
1. All PV systems will be designed and installed in full compliance with 2008 National Electric Code (NEC) and the 2011 PV Array SD rules and regulations.

2. PV modules, source circuit combiners, and utility interactive inverters must be safety certified (listed) to the appropriate Underwriters Laboratories (UL) standard (UL1741 for inverters and cominers, UL 1703 for PV modules) and must be tested and certified by one of the following US nationally recognized or TUV Rheinland of North America the European CE designation and tests by SOLAR DECATHLON laboratories in other countries are not acceptable. (690.4)

3. DC circuits from the PV modules to the DC PV disconnect must be in metal conduits (raceways) where inside the structure (NEC 690.31(E1))

4. All PV strings to use manufacturer provided cables for power transmission.
**NEC 690.8 (B) AMPACITY AND OVERCURRENT DEVICE (OCPD) RATINGS**

1. PROPERLY COLOR CODE DC AND AC CONDUCTORS

   **TEMPERATURE IN WASHINGTON DC RANGES FROM -44 DEG C TO 48 DEG C.**

2. FROM NEC TABLE 310.17 #10 USE-2 = 55A (APPLICABLE FOR STRINGS B AND C)

3. CONDUCTOR DERATING = 55A X 0.41 = 22.5A

   **THE VOLTAGE AT THE UTILITY POINT OF ELECTRICAL SYSTEM BLOCK DIAGRAM CONNECTION. SEE SECTION 4 OF THE INVERTER ECU.**

4. SET THE INVERTER'S INTERNAL GROUNDING TERMINAL RATING.

5. SOLARECK. STRINGS B AND C ARE FUSED ON THE SOUTH ROOF SOLAR ARRAY.

   **GROUNDING CONFIGURATION.**

6. **TOPIC GROUNDING ELECTRODE CONDUCTOR: 4AWG BARE CU CONDUCTORS.**

7. FROM NEC 250.122, MAX PV OPEN CIRCUIT (PVOC) V DC

   **MAXIMUM PV OPEN CIRCUIT (PVOC) = 57.1125 X 9 = 514.01 VDC (FROM ABOVE CALCULATION).**

8. REFER TO ELECTRICAL PARAMETER MONITORING TOUCH-SAFE PAGE FOR INVERTER TECHNIQUE SPECIFICATIONS.

9. **CONDUCTOR = #10 AWG THWN**

   **TO.nama**

10. REFER TO THE PROPOSAL / CONTRACT FOR THE TEAM NAME: ANDY SWITZER, ARKOR

   **CLIENT: PURDUE UNIVERSITY 2011.**

   **ADDRESS: WWW.PURDUE.EDU/INHOME/INTERNET**

   **MARK DATE: 08/11/2011**

**GENERAL SHEET NOTES**

**CHECKED BY: **

**REFERENCE KEYNOTES**

**ELECTRICAL**

**SOLAR DECA HOME**

**CORROSION OR SEVERE PHYSICAL DAMAGE**

**CONDUCTORS (ALSO AGAINST ALL GUARD AND COMBINE IN GARAGE)**

**PVSC**

**Basis for Design:**

**P&ID**

**SHEET KEYNOTES**

**E-602**

**THREE LINE DIAGRAM**
ALL INSTALLATION PER NEC 2008
2. ALL BRANCH CIRCUITS GO TO "AC BREAKER
3. ALL BEDROOM OUTLETS, HALLWAY, LAUNDRY,
AND BEDROOM LIGHTS SHALL BE PROTECTED BY
GFCI
4. ALL SMOKE ALARMS TO BE INSTALLED IN
ACCORDANCE WITH NFPA72. FOLLOW
INSTALLATION.
6. U.N.O. ALL RECEPTACLES TO BE LOCATED AT 12"
FROM WALL.
7. U.N.O. ALL SWITCHES TO BE LOCATED AT 48"
A.F.F. TO CENTERLINE OF FIXTURE
8. WHILE ON NATIONAL MALL, ORGANIZERS SHALL
LOCK OUT & TAG OUT METER HOUSING UNTIL
FINAL APPROVAL IS GRANTED
9. RECEPTACLES AND WRITING OUTLET CIRCUIT AT 1500 VA EACH
10. WATER HEATER, SINGLE OUTLET
11. DISHWASHER
12. OVEN & COOKTOP
13. FIRST 10kVA @ 100%
14. 3/4HP FIRE PUMP
15. HEAT PUMP WATER HEATER, SINGLE OUTLET
16. CUSTOM BIOWALL
17. BATHROOM LIGHTING / CLERESTORY
18. OFFICE RECEPTACLES
19. CLOTHES DRYER
20. 3/4 HP FIRE PUMP
21. DOCUMENT KEY NOTES
22. REFERENCE KEY NOTES
23. SHEET KEY NOTES
24. SERVICE CALCULATIONS

NAMEPLATE RATING
TOTAL NET GENERAL LOAD
(7) 20A APPLIANCE OUTLET CIRCUIT AT 1500 VA EACH
LAUNDRY CIRCUIT (CLOTHES WASHER)
OVEN & COOKTOP
NAMEPLATE RATING
(COOKTOP, 7.7kVA) + (OVEN, 2.4kVA) =
34,852
5400
18.75
120
1200
0.8
10W BIPI
Kichler Deck Light No. 15064AZT
10/24/2010 10:32:20 AM
KNOY HALL, ROOM 107
TEAM NAME:
KNOY HALL, ROOM 107
ADDRESS:
SOLARHOUSE@PURDUE.EDU
CONSULTANTS
TEAMS MICHIGAN
TEAMS PURDUE
TEAM NAME:
ADDRESS:
E-603
1. THERE SHALL BE NO BATTERY STORAGE FOR ELECTRICITY GENERATED BY THE PHOTOVOLTAIC ARRAY.

2. AA, AAA, AND 9V BATTERIES SHALL ONLY BE USED IN SECONDARY DEVICES SUCH AS REMOTE CONTROLS, WALL CLOCKS, DOOR LOCKS, AND SMOKE ALARMS.
1. TEAM SHALL PROVIDE AND INSTALL 2/0 COPPER, 4/0 ALUMINUM, OR EQUIVALENT POWER CABLE FROM TEAM PANEL BOARD THROUGH TEAM METER HOUSING OUT TO ORGANIZER UTILITY PANEL.

2. TEAM METER HOUSING SHALL BE STANDARD 4-JAW, RINGLESS, ROUND UTILITY GRADE METER AT 50"-65" INCHES OFF GRADE.

3. SENSOR WIRE FROM DATALOGGER TO TEAM METER HOUSING SHALL RUN THROUGH MAIN PANEL AND INTO THE BACK OF THE TEAM METER HOUSING.

4. TEAM SHALL PROVIDE A CLEAR CABLING ROUTE FROM THE ORGANIZER PANEL BOARD TO ORGANIZER ENCLOSURE. THIS ROUTE WILL BE ALONGSIDE THE POWER CABLES.

5. 90° DROP DOWN ELBOWS FROM BACKSIDE OF ORGANIZER ENCLOSURE SHALL BE INSTALLED FOR 2 ETHERNET CABLES, 1 SERIAL CORD AND A 14/3 POWER CORD.

6. ORGANIZER ENCLOSURE SHALL BE WITHIN FOUR FEET OF TEAM PANEL BOARD AND HAVE AN UNOBSTRUCTED 12"W X 24"H X 8"D WALL SPACE. SEE E-502.

7. TEAM SHALL PROVIDE ACCESS BETWEEN ORGANIZER ENCLOSURE AND TEAM PANEL BOARD. ALLOW FOR ONE PANEL BOARD KNOCK-OUT AND ACCESS TO A 240V, 2 POLE, 15A BREAKER FOR PV NET METERING.

8. MICROGRID NET PV PRODUCTION METER IN THE ORGANIZERS ENCLOSURE MAY BE ROUTED THROUGH THE PV AC JUNCTION BOX AND INTO THE TEAM UTILITY PANEL OR ANY OTHER ALLOWABLE LOCATION. THE PV AC VOLTAGE SENSE WIRES SHALL BE ROUTED TO THE TEAM UTILITY PANEL.

9. TEAM SHALL PROVIDE A CLEAR INSTALLATION ROUTE FOR ETHERNET CABLING BETWEEN ORGANIZER ENCLOSURE TO DATALOGGER ENCLOSURE. 1" MINIMUM DIAMETER CLEARANCE FOR ALL PENETRATIONS.

10. TEAM SHALL PROVIDE 24"W X 30"H X 24"D LOCATION FOR DATALOGGER ENCLOSURE.
LOADING REPRESENTS A SUGGESTED METHOD OF PRODUCED BY AN AUTODESK STUDENT PRODUCT

PRIVATE MODULE

MECHANICAL MODULE

PUBLIC MODULE

NOTE:
REVERSE SEQUENCE
FOR DEPARTURE
1. Loading represents a suggested method of loading. Exact placement of each item to be coordinated with shipping companies so that transportation requirements are met, loads are distributed and construction sequence is optimized.

2. Contractor to determine applicable shipping route from construction site to National Mall in Washington D.C. and verify with owner prior to transportation.

3. Contractor shall be responsible for obtaining all necessary permits and transportation vehicles to move trucks from construction location to the National Mall in Washington D.C. and back.

4. All items to be secured to the truck per requirements set forth by the Department of Transportation, the shipping company and any other applicable legal bodies.