General Notes

1. 11 24 29 REPRESENTS A DRING ANCHOR DBI/SALA

ANCHOR LOCATED UNDERNEATH EACH BENT STEEL BEAM (5 12 00)

2. D RINGS WILL HAVE 20 FT GUARDIAN 10909 RETRACTABLE LIFELINE ATTACHED

3. RETRACTABLE LIFELINE WILL BE ATTACHED TO 3M CLASS A SAFELIGHT FALL PROTECTION HARNESS

4. RETRACTABLE LIFELINE WILL ONLY ALLOW MAXIMUM FALL OF 24" BEYOND CURRENT EXTENDED LENGTH 11 24 29
ARCHITECTURAL SYMBOLS AND NOTES

REFERENCE KEYNOTES

SHEET KEYNOTES

1. GENERAL SHEET NOTES
2. GENERAL SHEET NOTES 2
3. GENERAL SHEET NOTES 3
4. GENERAL SHEET NOTES 4
5. GENERAL SHEET NOTES 5
6. GENERAL SHEET NOTES 6
7. GENERAL SHEET NOTES 7
8. GENERAL SHEET NOTES 8

MARK DATE DESCRIPTION

A-001
FIRST FLOOR REFLECTED CEILING PLAN
EAST ELEVATION

NORTH ELEVATION

1/4" = 1'-0"
### CASEWORK SCHEDULE

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<th>HEIGHT</th>
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<th>COMMENTS</th>
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### DOOR SCHEDULE

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### DETAILS

- **FINISH**
- **FRAME**
- **HEIGHT**
- **WIDTH**
- **DEPTH**
- **MANUFACTURER**
- **COMMENTS**
SLIDING DOOR TOP SECTION DETAIL
REFERENCE KEYNOTES

05 12 23.I0.A3
05 40 00.A3
05 40 00.A4
06 11 00.F1
07 21 00.F1
07 21 00.F2
07 21 00.F3
07 46 24
07 46 29
09 50 00
09 50 00
07 41 23

SHEET KEYNOTES

0
3"

A1 NORTH WINDOW TOP SECTION DETAIL
A4 EXTERIOR WALL SECTION DETAIL
INTERIOR WALL SECTION DETAIL

HINGE CONNECTION SECTION DETAIL

REFERENCE KEYNOTES

05 12 00.A1
05 12 00.A2
05 40 00.A4
05 41 00.A2
06 11 00.F1
07 21 00.F2
07 21 00.F3
07 41 23
07 46 24
09 50 00

SHEET KEYNOTES
**LOAD REQUIREMENTS**


2. Structural steel shall be certified to comply with all design drawings, specifications, and standards.

3. Anchor bolts shall be in accordance with the provisions of the Supplement to the AISC Manual of Steel Construction (16th Edition of the AISC Manual of Steel Construction.)

4. All bolting shall be in accordance with the provisions of the AISC Manual of Steel Construction.

5. AISC Section 22.2.1, "Welding and Welding Procedure Specifications," shall be used to control the quality of welding. All welding shall be done by qualified welders using sound welding procedures and equipment.

6. All welding shall be in accordance with the provisions of the AISC Manual of Steel Construction.

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REFERENCE KEYNOTES

GENERAL SHEET NOTES

JACKS ARE REPRESENTED HERE AS CONCRETE PADS. ADJUSTABLE SCREW JACKS WILL BE USED. SEE SHEET 'C-501' FOR STANDARD USAGE.
SAMPLE PROCEDURE TO ENSURE THAT HOUSE WILL BE ABLE TO ACCOMMODATE CHANGES IN GRADE AS WELL AS WIND UPLIFT

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

JACK INCLUDES AN AFTERMARKET, WELDED STEEL PLATE, 1'x1' SQUARE, 1/4" THICK. EACH STEEL PLATE CONTAINS FOUR PLACES FOR 1" DIAMETER, A36 STEEL ANCHORS, WHICH CAN SUPPORT AN UPLIFT OF 1,250 LB EACH, WHEN PLACED AT LEAST 36" INTO THE GROUND. STEEL COLUMNS WILL BE RESTED ON THE TOP OF EACH JACK AND CONNECTED USING STANDARD CONNECTIONS.
REFERENCE KEYNOTES:

- 22 33 30.16 Residential, Storage Electric Domestic Water Heaters
- 26 51 00.B1 Recessed Incandescent Light Fixtures
- 26 51 00.D1
- 26 51 00.D2

GENERAL SHEET NOTES:

- Receptacles are placed within comfortable reach of various areas within the house. This is in compliance with NEC 210.52(A).
- Lighting outlets are placed throughout the house in compliance with NEC 210.70.
- All receptacles are tamper resistant in compliance with NEC 406.12.
- AFCI protection is present in all circuits via circuit breakers within panelboard, indicated by keynote 26.28.20, in compliance with NEC 210.12(A).
- Receptacles placed outside of the house are weather resistant and maintain a weatherproof enclosure per NEC 406.9(A) and 406.9(B)(1)(2).
- Receptacles connected to circuit #9 and #14 are floor mounted, and maintain a cover for protection against damage when not in use.
- Multiple circuits servicing each living space in compliance with NEC 210.11.
- Distance between the main panel and water heater is 3 feet in compliance with NEC 110-26.
- The main panel is wall mounted.

REFERENCE KEYNOTES:

- DISCONNECT BOX

ELECTRICAL LIGHTING DISTRIBUTION

A2

SWITCH AND RECEPTACLE DISTRIBUTION

C1 PANELBOARD/WATERHEATER SECTION
AC UNITS: 3 240 V CIRCUITS WIRE FROM PANEL ONE.
System comprised of 2 branches consisting of (18) SW265 watt panels coupled to (18) SolarEdge Power Optimizer P300 Micro-Inverters.

NOTE 1: THE CONDUCTORS WILL TRANSITION INSIDE THE JUNCTION BOX TO THHN/THWN AND TRAVEL TO THE COMBINER BOX IN EMT WITH WATERTIGHT CONNECTORS/COUPLERS.
SOLAREDGE POWER OPTIMIZER P300

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

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

NOTE 3: THE PANEL BOX AIC RATING IS 22,000 AM. THE PANEL SIZE IS 200 AMPS. IN COMPLIANCE WITH 705.12(D)(2) SEE NOTE 3

NOTE 4: ALL WIRES WILL BE BOUND TOGETHER WITH WIRING HARNESS. SIMILARLY THE OPTIMIZERS WILL BE BONDED TO THE SOLAR PANELS

NOTE 5: THE PANEL BOX AIC RATING IS 22,000 AM. THE PANEL SIZE IS 200 AMPS. IN COMPLIANCE WITH 705.12(D)(2) SEE NOTE 3

NOTE 6: ALL WIRES WILL BE BOUND TOGETHER WITH WIRING HARNESS. SIMILARLY THE OPTIMIZERS WILL BE BONDED TO THE SOLAR PANELS

NOTE 7: THE PANEL BOX AIC RATING IS 22,000 AM. THE PANEL SIZE IS 200 AMPS. IN COMPLIANCE WITH 705.12(D)(2) SEE NOTE 3

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NOTE 24: THE PANEL BOX AIC RATING IS 22,000 AM. THE PANEL SIZE IS 200 AMPS. IN COMPLIANCE WITH 705.12(D)(2) SEE NOTE 3
**LOAD CALCULATIONS**

**LOAD DESCRIPTION**

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<th>FAMILY AND TYPE</th>
<th>MANUFACTURERS</th>
<th>MODEL</th>
<th>LAMP</th>
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**TOTAL VA**

- **36,763 VA**

**TOTAL CURRENT**

\[
\text{Current} = \frac{\text{Total VA}}{\text{Service Voltage}} = \frac{36,763 \text{ VA}}{240 \text{ V}} = 153 \text{ AMPS}
\]

**ELECTRICAL SERVICE / MAIN BREAKER RATING**

- 200 AMPS

### NEUTRAL CONDUCTOR CALCULATIONS

**LOAD DESCRIPTION**

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**TOTAL VA**

- **29,157 VA**

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**SCHEDULES AND CALCULATIONS**

**E-603**
FIRE PROTECTION SYMBOLS

C1

SMOKE DETECTION

FIRE PROTECTION SYMBOLS

C1

FIRE PROTECTION SYMBOLS
FIRE DETECTION AND ALARM

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A1 TOUR ROUTE

ENTRANCE

EXIT

ADA TOUR ROUTE
COMPLIANCE PLAN

G-103
SHADING DIAGRAM A

C1 SHADED PERSPECTIVE VIEW - 9 AM

C4 SHADED PERSPECTIVE VIEW - 12 PM

A3 SHADED PERSPECTIVE VIEW - 15 PM
SHADING DIAGRAM B

C1 SHADED PLAN VIEW - 9 AM

C2 SHADED PLAN VIEW - 12 AM

A3 SHADED PLAN VIEW - 15 PM
SHADING DIAGRAM C

B1 SHADED PLAN VIEW - 12 PM 21TH JUNE

B4 SHADED PLAN VIEW - 12 PM 21TH DECEMBER
C2 SHADED PLAN VIEW - 08 PM 20th OCTOBER

C4 SHADED PLAN VIEW - 12 AM 20th OCTOBER

A3 SHADED PLAN VIEW - 16 PM 20th OCTOBER
LIQUID LOCATION AND SPILL CONTAINMENT PLAN

22 33 30.16 RESIDENTIAL, STORAGE ELECTRIC DOMESTIC WATER HEATERS

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

WATER BLADDER 500 GALLONS
WATER BLADDER 500 GALLONS

7'-8" 9'-4"

WASTE BLADDER 500 GALLONS

1 2 3 4 5 6 7
A B C D E

SHEET TITLE
LOT NUMBER:
DRAWN BY:
CHECKED BY:
COPYRIGHT:

TEAM NAME:
ADDRESS:

CONTACT:
HTTP://SOLAR.WVU.EDU

CONSULTANTS
WVU-UTV
NONE; PROJECT IS PUBLIC DOMAIN
Bedroom-Bathroom Elevation

2'-2" 1/2" 7/8"

10'-7 3/16"'

10'-7 1/8"

3'-10 1/2"

8'-3 3/4"
LANDSCAPE IRRIGATION AND GREYWATER PLAN

L-103
REFERENCE KEYNOTES

05 31 00 STEEL DECKING
DIVISION 31 EARTHWORK

GENERAL SHEET NOTES

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

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

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

4. 05 DENOTES DIVISION 5, METALS
31 DENOTES SUBSECTION STEEL DECKING
00 DENOTES SUBCATEGORY GENERAL
DIVISION 31, EARTHWORK

1/4" = 1'-0"
PLANTING BED DETAIL 1

PLANTING BED DETAIL 2

GREEN WALL
3 TRUCKS CARRYING THREE 40' HIGH-CUBE CONTAINER

Dimensions

<table>
<thead>
<tr>
<th>Description</th>
<th>Value 1</th>
<th>Value 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. LENGTH TO FORK FACE</td>
<td>20 ft in</td>
<td>6100 mm</td>
</tr>
<tr>
<td>B. WIDTH OVER TIRES</td>
<td>8.5 ft in</td>
<td>2590 mm</td>
</tr>
<tr>
<td>C. OVERALL HEIGHT</td>
<td>8.9 ft in</td>
<td>2720 mm</td>
</tr>
<tr>
<td>D. WHEELBASE</td>
<td>10.8 ft in</td>
<td>3300 mm</td>
</tr>
<tr>
<td>E. GROUND CLEARANCE</td>
<td>1.4 ft in</td>
<td>430 mm</td>
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</table>

Lift

<table>
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<tr>
<th>Description</th>
<th>Value 1</th>
<th>Value 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>F. MAX LIFT HEIGHT</td>
<td>42 ft in</td>
<td>12800 mm</td>
</tr>
<tr>
<td>G. MAX FORWARD REACH</td>
<td>25 ft in</td>
<td>7620 mm</td>
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</table>
THE MODULES WILL BE MOVED USING A FORKLIFT WITH THE PROPER SAFETY OPERATIONS. ONCE THE MODULE CONNECTION PLATFORM IS DECIDED, THE CONSTRUCTION SEQUENCE WILL BE DESIGNED.
CONSTRUCTION SEQUENCE 11

CONSTRUCTION SEQUENCE 12
CONSTRUCTION SEQUENCE 13

CONSTRUCTION SEQUENCE 14
1) ALL PIPING FROM PEX MANFOLD TO FIXTURE HAS TO BE 3/4'' PEX TUBING UNLESS OTHERWISE SPECIFIED.
2) THE MAIN PIPE FROM THE TANKS TO THE PEX MANFOLD HAS TO BE 1'' PEX TUBING.
A. QUALITY OF CONSTRUCTION REQUIRED.

D. STRENGTH AND PHYSICAL REQUIREMENTS OF MATERIALS.

E. CONFORMANCE TO CODES AND REGULATIONS.

F. WARRANTY REQUIREMENTS.

SPECIFICATIONS IN THE PROJECT MANUAL, THE SPECIFICATIONS (INCLUDING GEOTECHNICAL REPORT) WILL GOVERN.

BRACING CONNECTIONS. THREADS SHALL BE INCLUDED IN THE SHEAR PLANE.

E. CONTRACTED EQUIPMENT AND MATERIALS PREPARED AND SUBMITTED BY THE CONTRACTOR.

SHALL PROVIDE CERTIFIED DESIGN FOR ALL SHEAR CONNECTIONS BY A PROFESSIONAL ENGINEER IN THE STATE IN WHICH THE PROJECT IS LOCATED. SUBMIT CALCULATIONS FOR PERIODICAL INSPECTIONS.

INTERNAL PRESSURE COEFFICIENT:

DESIGN WIND PRESSURE FOR EXTERIOR COMPONENTS:

W14'S = 18 KIPS

W18'S = 22 KIPS

SEISMIC IMPORTANCE FACTOR,

MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS:

SS = 1.404, S1 = 0.503

DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS:

OPENING LOCATIONS AND DIMENSIONS, DEPRESSED SLAB LOCATIONS AND EXTENTS, SLAB SLOPES, CURB DETAILS SHALL GOVERN.

WATER LOAD DATA:

AND ERECTION PROCEDURES, INCLUDING DESIGN AND ERECTION OF FRAMEWORK, TEMPORARY SUPPORTING MASONRY VENEER AND PRECAST SUPPORT ANGLES SHALL BE ZINC PRIMED AND PAINTED.

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

OF THE CONTRACT DOCUMENTS.

AND ELEMENTS ON THE SUPERSTRUCTURE AND BELOW GRADE STRUCTURES.

HORIZONTAL DEFLECTION OF L/360 (L600 FOR UNREINFORCED VENEER).

3. ADS CONSULTING ENGINEERS SHALL NOT HAVE CONTROL OVER OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONTRACTOR'S SCHEDULE OR FAILURES TO CARRY OUT ANY CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. ADS CONSULTING ENGINEERS SHALL NOT HAVE ANY RESPONSIBILITY TO SUPERVISE THE ACTIVITIES OF THE CONTRACTOR, INCLUDING BUT NOT LIMITED TO THE ACTIVITIES OF THE CONTRACTOR'S TRADES, SUBCONTRACTORS, OR ANY RESPONSIBILITY FOR SAFETY OR THE COMPLIANCE OF THE CONTRACTOR'S TRADES.

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MAXIMUM STUD SPACING SHALL BE 16" O.C.

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

7. FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS OR WELDING. SCREWS SHALL BE OF SUFFICIENT SIZE TO INSURE THE STRENGTH OF THE COMPONENT.

IN ANY WAY FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, OR SAFETY OR OUTSIDE THE RESPONSIBILITY OF THE CONTRACTOR OR CONTRACT DOCUMENTS.

GENERAL NOTICE AND THE STRUCTURAL STEEL SPECIFICATIONS.

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7. FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS OR WELDING. SCREWS SHALL BE OF SUFFICIENT SIZE TO INSURE THE STRENGTH OF THE COMPONENT.
STANDARD JACK LAYOUT:

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

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

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

REFERENCE KEYNOTES

05 12 00.A1 DIVISION 31 EARTHWORK
05 DENOTES DIVISION 5, METALS
12 DENOTES SUBSECTION STRUCTURAL STEEL
00.L46 DENOTES SUBCATEGORY TS6x6x0.25 DIVISION 31, EARTHWORK
GRADE LEVEL 0"

STEEL COLUMN

BASE 1'-2 1/2"

TOP 10'-8 1/2"

T/C = 14 KIP

STEEL COLUMN

BASE 16'-9 1/2"

TOP 17'-9 3/4"

T/C = 14 KIP

ARCH BEAM RADIUS =~ 107' 7"

11'-5 3/16"

SOLAR ENVELOPE 17'-11"

GRADE LEVEL 0"

10'-0 1/2"

13'-1 11/16"

7'-10 1/2"

11'-8"

11'-8"

11'-8"

11'-8"

11'-8"

11'-8"

8/17/2015 6:46:43 PM

SHEET TITLE

LOT NUMBER:

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CHECKED BY:

COPYRIGHT:

CLIENT

U.S. DEPARTMENT OF ENERGY

WWW.SOLARDECATHLON.GOV

TEAM NAME:

ADDRESS:

WEST VIRGINIA UNIVERSITY

395 EVANSDALE DRIVE

MORGANTOWN, WV 26506

CONTACT:

HTTP://SOLAR.WVU.EDU

CONSULTANTS

WVU-UTV

NONE; PROJECT IS PUBLIC DOMAIN

REFERENCE KEYNOTES

05 DENOTES DIVISION 5, METALS

12 DENOTES SUBSECTION STRUCTURAL STEEL

00.A8 DENOTES SUBCATEGORY L8x8x0.625

00.L46 DENOTES SUBCATEGORY TS6x6x0.25

00.L121 DENOTES SUBCATEGORY TS12x4x0.625

00.M23 DENOTES SUBCATEGORY W10x12

00.M43 DENOTES SUBCATEGORY W12x19

00.M106 DENOTES SUBCATEGORY W16x26

COLUMN BASES ARE LOCATED AT 10" ABOVE GRADE LEVEL

COLUMN EXTENDS 1' 10" ABOVE SECOND FLOOR LEVEL

COLUMN EXTENDS 8" ABOVE SECOND FLOOR LEVEL

BEAM REACTIONS WILL EQUAL 10 KIP MINIMUM UNLESS NOTED OTHERWISE.

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

SEE TYPICAL DETAIL 3

COLUMN BASE LOCATED 10" ABOVE GRADE LEVEL

COLUMNS 05 12 00.L46 BASE LOCATED 7 3/4" ABOVE GRADE LEVEL

COLUMNS 05 12 00.L121 BASE LOCATED AT GRADE LEVEL

SECOND FLOOR

GRADE LEVEL

A1

SOUTH ELEVATION FRAMING

S-201

FRAMING ELEVATIONS
COLUMN BASES ARE LOCATED AT 10" ABOVE GRADE LEVEL
COLUMN EXTENDS 1' 10" ABOVE SECOND FLOOR LEVEL
COLUMN Extends 8" Above Second Floor Level
SEE TYPICAL DETAIL 3
SEE TYPICAL DETAIL 3
SEE TYPICAL DETAIL 3
SEE TYPICAL DETAIL 3
1. BEAM REACTIONS WILL EQUAL 10 KIP MINIMUM UNLESS NOTED OTHERWISE.
2. MOMENT REACTIONS WILL EQUAL 10 FT-KIP UNLESS NOTED OTHERWISE.
SAMPLE PROCEDURE TO ENSURE THAT HOUSE WILL BE ABLE TO ACCOMMODATE CHANGES IN GRADE AS WELL AS WIND UPLIFT

REFERENCE KEYNOTES

1. JACK INCLUDES AN AFTERMARKET, WELDED STEEL PLATE, 30" X 30" SQUARE, 1/4" THICK. EACH STEEL PLATE CONTAINS FOUR PLACES FOR 1" DIAMETER, A36 STEEL ANCHORS, WHICH CAN SUPPORT AN UPLIFT OF 1,250 LB EACH, WHEN PLACED AT LEAST 36" INTO THE GROUND.

2. STEEL COLUMNS WILL BE RESTED ON THE TOP OF EACH JACK AND CONNECTED USING STANDARD CONNECTIONS.
1. Beam reactions will equal 10 kip minimum unless noted otherwise.
2. Moment reactions will equal 10 ft-kip unless noted otherwise.