

Structural Notes (Continued From Sheet S2):

WOOD FRAMING NOTES:

1. COMPLY WITH UNIFORM BUILDING CODE, 1994 EDITION, CHAPTER 23, INCLUDING CITY OF LAS VEGAS AMENDMENTS, AS APPLICABLE.
2. FOR DESIGN LOADS SEE SHEET S1.
3. ALL STRESS GRADE LUMBER CONSTRUCTION SHALL COMPLY WITH UBC STANDARDS.
4. SAW LUMBER: WEST COAST SEASONED (19% MAX. MOISTURE CONTENT) DOUGLAS FIR - LARCH AS FOLLOWS:
- |                               |                                            |
|-------------------------------|--------------------------------------------|
| BUILT-UP BEAMS & 4X JOISTS:   | NUMBER 1                                   |
| ALL OTHER STRUCT. FRAMING:    | NUMBER 2 OR BETTER                         |
| LIGHT NON-STRUCTURAL FRAMING: | STUD GRADE OR "STANDARD AND BETTER" GRADE. |
5. PLYWOOD: C-D EXTERIOR, PS 1-95, 1/2" (15/32" MIN.) - 3/216. LAY-UP HORIZONTAL PLYWOOD WITH FACE GRAIN PERPENDICULAR TO SUPPORTS AND STAGGER JOINTS (UBC TABLE 23-1-J-1, CASE 1 BLOCKED DIAPHRAGM & UBC STANDARD 23-2)
6. CONNECTIONS:
- A. ALL FRAMED CONNECTIONS SHALL BE MADE WITH FRAMING ANCHORS EACH SIDE. JOIST ANCHORS, SEATS & CAPS BY SIMPSON OR APPROVED EQUAL, APPROPRIATE FOR THE MEMBER. ANCHORS TO BE DESIGNED FOR UPLIFT AND DOWNWARD LOADS, IN ACCORDANCE WITH CURRENT ICBO REPORTS.
- B. FOR NAILING, SEE DETAILS OR UBC, TABLE 23-Q. FIELD DRILL ALL HOLES FOR PROPER MATCHING AND BEARING.
- C. PROVIDE CUT WASHERS AT ALL BOLTS IN WOOD. PREDRILL ALL HOLES FOR NAILS LARGER THAN 20d.
- D. FASTEN PLYWOOD WITH 8d COMMON OR WITH 10d x 2" P-NAILS, OR NO. 13 GAGE x 1-3/4" LONG STAPLES, MIN. 1/16" O.D. CROWN. INSTALL STAPLES AND P-NAILS PER NER-212. FASTENER SPACING AS FOLLOWS: 6" O.C. AT SUPPORTED EDGES, AND 12" O.C. AT INTERMEDIATE SUPPORTS. MIN. EDGE DISTANCE 3/8". SEE DETAILS 1 & 8, SHT 6, FOR ADDITIONAL NAILING, BLOCKING, & STRAPPING AT ROOF OPENINGS.
- E. CONSTRUCTION OF ROOF FRAMING MEMBERS SHALL COMPLY WITH CURRENT APPLICABLE ICBO REPORTS. PERMANENT AND TEMP. BRACING AND FASTENING AT BEARINGS SHALL BE BY FRAMING MANUFACTURER. TRUSS CONFIGURATION MAY VARY FROM THAT SHOWN WITH PRIOR ENGINEER'S APPROVAL OF DESIGN CALCULATIONS AND SHOP DRAWINGS.
- F. WOOD TRUSSES SHALL BE PREAPPROVED FOR THE PROPOSED APPLICATION BY THE CITY OF LAS VEGAS DEPARTMENT OF PLANNING AND DEVELOPMENT.
7. SEE MECHANICAL DRAWINGS FOR MECHANICAL EQUIPMENT SUPPORTS AND DUCT OPENING SIZE AND LOCATION IN SIDEWALL OF RECESS. PROVIDE CURB AND FRAMING UNDER EQUIPMENT AND AROUND RECESS AS SHOWN. ATTACH ROOF MOUNTED AC UNIT TO CURB PER MFG'S INSTRUCTIONS (RESIST 15 PSF WIND LOAD).

STRUCTURAL STEEL NOTES:

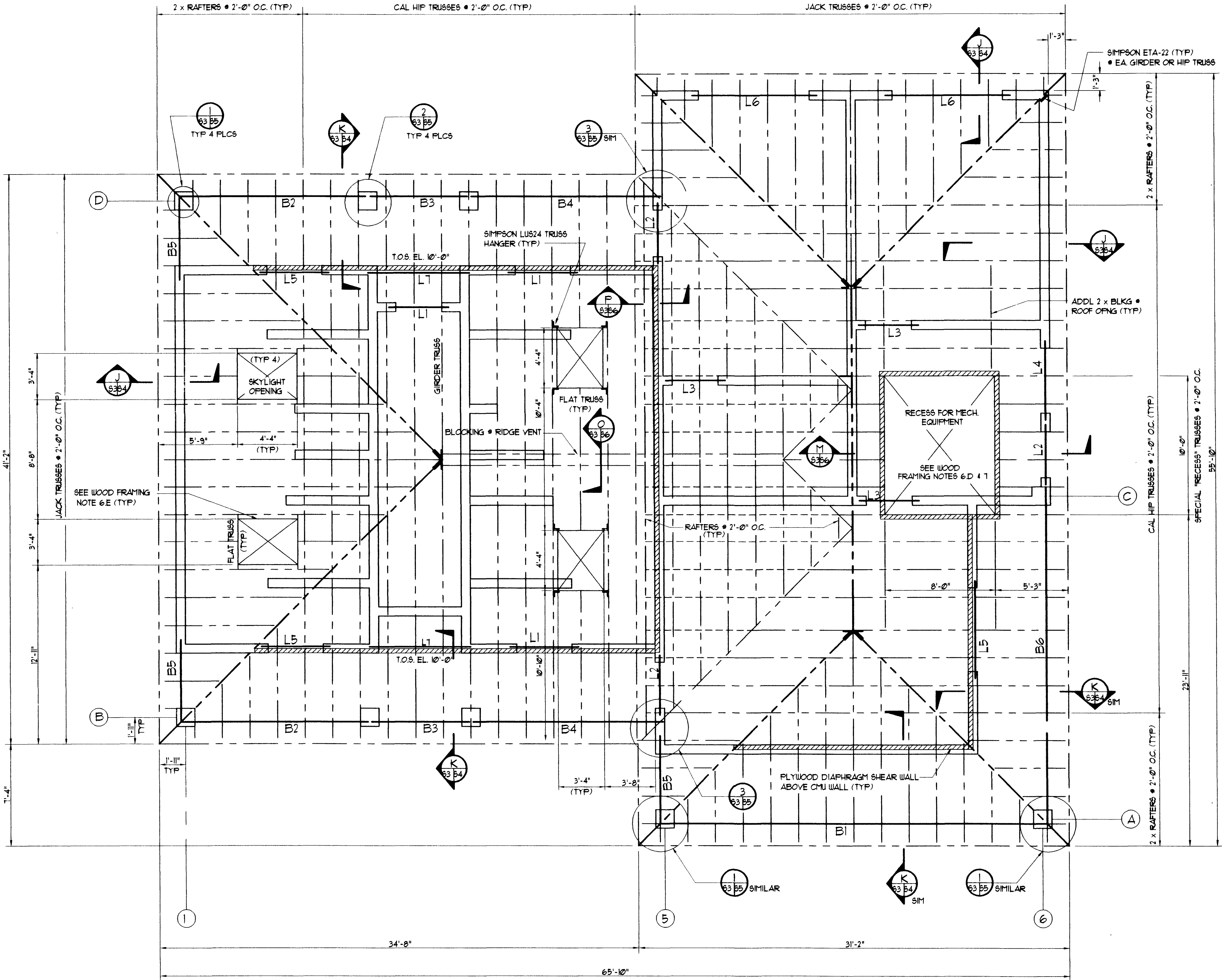
1. MATERIALS:
- |                   |                                                                 |
|-------------------|-----------------------------------------------------------------|
| STRUCTURAL STEEL: | ASTM A36                                                        |
| BOLTS:            | ASTM A307, GRADE A                                              |
| CONCRETE ANCHORS: | ASTM A108, GRADE 1015 OR 1020                                   |
| GROUT:            | CRD C621, NON-METALLIC, NON-SHRINK (UNLESS OTHERWISE SPECIFIED) |
2. MIN. EMBED. OF ALL BOLTS & PLAIN ANCHORS SHALL BE AS FOLLOWS:
- |               |                                       |
|---------------|---------------------------------------|
| HORIZ. BOLTS: | 5" EMBED W/ HEAD OR 5" PLUS 3" HOOK   |
| VERT. BOLTS:  | 8" EMBED WITH HEAD OR 8" PLUS 3" HOOK |
3. WELDED ANCHORS & WELDED ANCHOR BOLTS SHALL BE UNTHREADED HEADED STUDS, WELDED ALL AROUND WITH 5/16" MIN. FILLET WELD.
4. WELDING:
- A. WELDING & TESTING SHALL BE PER AWS D11, LATEST EDITION. ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS HOLDING CURRENT, VALID WELD CERTIFICATIONS IN TYPE OF WELDS EMPLOYED.
- B. WELD RODS TO BE LOW HYDROGEN TYPE, E10XX SERIES PER AWS D11, EXCEPT TYPE E6010 FOR SHEET METAL PER AWS D13, AND CONCRETE REINFORCEMENT WELDS PER AWS D14.
- C. SHOP WELDS MAY BE DONE IN THE FIELD WITH PRIOR APPROVAL.
5. SANDBLAST & SHOP PRIME EXPOSED SURFACES OF STRUCTURAL STEEL WITH TMEC 10-99W WHITE PRIMER OR EQUAL.

Lintel Schedule

| LINTEL | OP'NG WIDTH         | STEEL MEMBER             | END BRNG | MASONRY MEMBER          | END BRNG |
|--------|---------------------|--------------------------|----------|-------------------------|----------|
| L1     | 3'-4" (EXT. DOOR)   | (2) L4 x 3 1/2 x 1/4 LLV | 6" MIN   | 8" x 16" W/ (1) * 4 T4B | 8"       |
| L2     | 3'-4" (EXT. DOOR)   | (2) L4 x 3 1/2 x 1/4 LLV | 6" MIN   | 8" x 16" W/ (1) * 4 T4B | 8"       |
| L3     | 3'-4" (INT. DOOR)   | (2) L4 x 3 1/2 x 1/4 LLV | 6" MIN   | 8" x 16" W/ (1) * 4 T4B | 8"       |
| L4     | 4'-8" (GLASS BLK)   | N/A                      | N/A      | 8" x 16" W/ (1) * 4 T4B | 8"       |
| L5     | 4'-0" & 6'-0" DOORS | W 6 x 9 W/ 1/4" x 1" E   | 6" MIN   | 8" x 24" W/ (2) * 4 T4B | 8"       |
| L6     | 8'-0" (ROLL-UP DR)  | W 8 x 10 W/ 1/4" x 1" E  | 6" MIN   | 8" x 24" W/ (2) * 4 T4B | 8"       |
| L7     | 6'-0"               | W 8 x 10 W/ 1/4" x 1" E  | 6" MIN   | 8" x 32" W/ (2) * 5 T4B | 8"       |

Beam Schedule

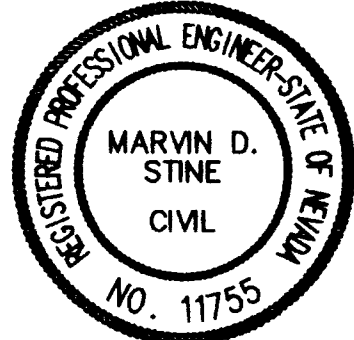
| BEAM | SPAN   | STEEL MEMBER | END BEARING           | AHR BOLTS           |
|------|--------|--------------|-----------------------|---------------------|
| B1   | 26'-0" | W 8 x 31     | 12" (COL) & 12" (COL) | (2) 3/4" x 8" EMBED |
| B2   | 12'-0" | W 8 x 31     | 12" (COL) & 8" (COL)  | (2) 3/4" x 8" EMBED |
| B3   | 6'-0"  | W 8 x 31     | 8" (COL) & 8" (COL)   | (2) 3/4" x 8" EMBED |
| B4   | 12'-8" | W 8 x 31     | 8" (COL) & 6" (WALL)  | (2) 3/4" x 8" EMBED |
| B5   | 4'-0"  | W 8 x 31     | 12" (COL) & 6" (WALL) | (2) 3/4" x 8" EMBED |
| B6   | 22'-0" | W 8 x 31     | 12" (COL) & 8" (COL)  | (2) 3/4" x 8" EMBED |



Roof Framing Plan

Scale: 1/4" = 1'-0"

Project North



|                                                   |           |               |                |                        |
|---------------------------------------------------|-----------|---------------|----------------|------------------------|
| DATE                                              | REVISIONS | DRAWN BY: MDS | DESIGN BY: MDS | ARCHITECTURAL SERVICES |
|                                                   |           | FLD BK        | DATE: 07/31    |                        |
| PLOT SCALE: 1/4" = 1'-0"                          |           |               |                |                        |
| DEPARTMENT OF PUBLIC WORKS                        |           |               |                |                        |
| PROJECT: Gowan Soccer Complex Restroom Facility   |           |               |                |                        |
| SHEET TITLE: Roof Framing Plan, Notes & Schedules |           |               |                |                        |
| SHEET NO. S3                                      |           |               |                |                        |
| DRAWING NO. 675-V31                               |           |               |                |                        |
| 43                                                |           |               |                |                        |
| 57                                                |           |               |                |                        |

## Structural Notes (Continued From Sheet 821)

#### ADDED FERTILIZING MATERIALS

- [illegible]

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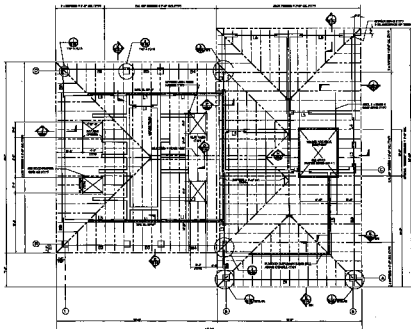
1. **PERSONAL DATA**
- |                            |                            |
|----------------------------|----------------------------|
| NAME (Last, first, middle) | Age (year)                 |
| DATE OF BIRTH (dd/mm/yyyy) | DATE OF DEATH (dd/mm/yyyy) |
| CURRENT ADDRESS            | PREVIOUS ADDRESS (if any)  |
| PHONE NO.                  | TELEPHONE NO. (if any)     |
2. **PROFESSIONAL DATA** (If any, please specify the date of completion)
- |                     |                    |
|---------------------|--------------------|
| NAME OF INSTITUTION | DATE OF COMPLETION |
|---------------------|--------------------|
3. **EDUCATIONAL DATA** (If any, please specify the date of completion)
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| NAME OF INSTITUTION | DATE OF COMPLETION |
|---------------------|--------------------|
4. **WORKING DATA** (If any, please specify the date of completion)
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|---------------------|--------------------|
| NAME OF INSTITUTION | DATE OF COMPLETION |
|---------------------|--------------------|
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**Linked Schedule**

| Year | Country       | Population (millions) | Urban population (millions) | Urban population % | Population growth (millions) | Population growth % |
|------|---------------|-----------------------|-----------------------------|--------------------|------------------------------|---------------------|
| 1950 | United States | 150.7                 | 80.0                        | 53.1               | 1.0                          | 0.7                 |
| 1955 | United States | 155.0                 | 83.0                        | 53.5               | 1.5                          | 1.0                 |
| 1960 | United States | 159.3                 | 86.0                        | 53.9               | 2.0                          | 1.3                 |
| 1965 | United States | 163.6                 | 89.0                        | 54.4               | 2.5                          | 1.5                 |
| 1970 | United States | 167.9                 | 92.0                        | 54.8               | 3.0                          | 1.8                 |
| 1975 | United States | 172.2                 | 95.0                        | 55.2               | 3.5                          | 2.0                 |
| 1980 | United States | 176.5                 | 98.0                        | 55.6               | 4.0                          | 2.3                 |
| 1985 | United States | 180.8                 | 101.0                       | 56.0               | 4.5                          | 2.5                 |
| 1990 | United States | 185.1                 | 104.0                       | 56.4               | 5.0                          | 2.7                 |
| 1995 | United States | 189.4                 | 107.0                       | 56.8               | 5.5                          | 2.9                 |
| 2000 | United States | 193.7                 | 110.0                       | 57.2               | 6.0                          | 3.1                 |
| 2005 | United States | 198.0                 | 113.0                       | 57.6               | 6.5                          | 3.3                 |
| 2010 | United States | 202.3                 | 116.0                       | 57.9               | 7.0                          | 3.5                 |
| 2015 | United States | 206.6                 | 119.0                       | 58.3               | 7.5                          | 3.7                 |
| 2020 | United States | 210.9                 | 122.0                       | 58.7               | 8.0                          | 3.9                 |
| 2025 | United States | 215.2                 | 125.0                       | 59.1               | 8.5                          | 4.1                 |
| 2030 | United States | 219.5                 | 128.0                       | 59.5               | 9.0                          | 4.3                 |
| 2035 | United States | 223.8                 | 131.0                       | 59.9               | 9.5                          | 4.5                 |
| 2040 | United States | 228.1                 | 134.0                       | 60.3               | 10.0                         | 4.7                 |
| 2045 | United States | 232.4                 | 137.0                       | 60.7               | 10.5                         | 4.9                 |
| 2050 | United States | 236.7                 | 140.0                       | 61.1               | 11.0                         | 5.1                 |

### Einige Beobachtungen

| Year | Age | Sex  | Occupation        | Marital Status | Religion | Education | Income     | Assets    | Liabilities | Net Worth |
|------|-----|------|-------------------|----------------|----------|-----------|------------|-----------|-------------|-----------|
| 2010 | 35  | Male | Software Engineer | Married        | Hindu    | Graduate  | ₹12,00,000 | ₹5,00,000 | ₹7,00,000   |           |
| 2011 | 36  | Male | Software Engineer | Married        | Hindu    | Graduate  | ₹13,00,000 | ₹5,50,000 | ₹7,50,000   |           |
| 2012 | 37  | Male | Software Engineer | Married        | Hindu    | Graduate  | ₹14,00,000 | ₹6,00,000 | ₹8,00,000   |           |
| 2013 | 38  | Male | Software Engineer | Married        | Hindu    | Graduate  | ₹15,00,000 | ₹6,50,000 | ₹8,50,000   |           |
| 2014 | 39  | Male | Software Engineer | Married        | Hindu    | Graduate  | ₹16,00,000 | ₹7,00,000 | ₹9,00,000   |           |
| 2015 | 40  | Male | Software Engineer | Married        | Hindu    | Graduate  | ₹17,00,000 | ₹7,50,000 | ₹9,50,000   |           |



### Roof Framing Plan

Phylogeny North A