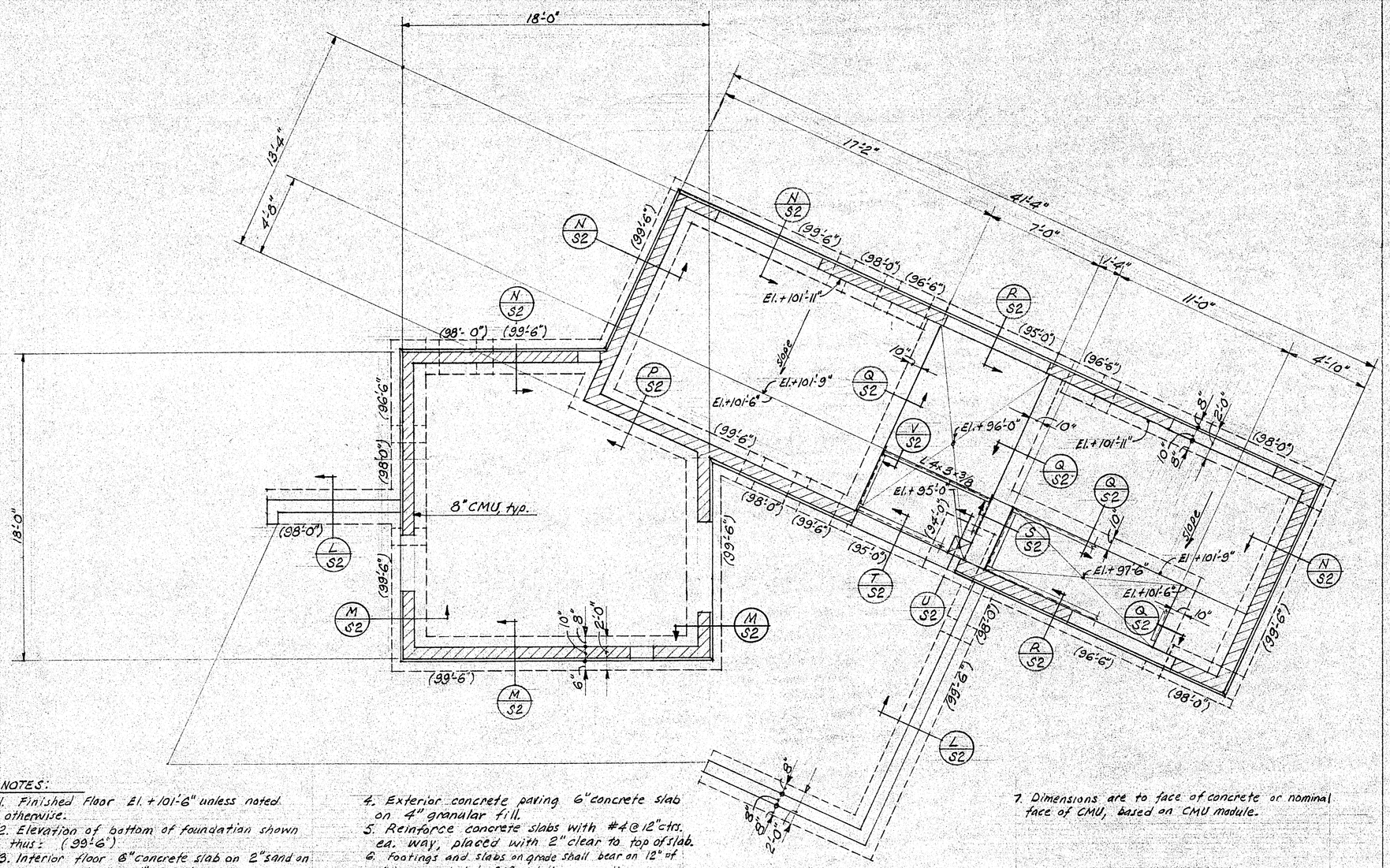
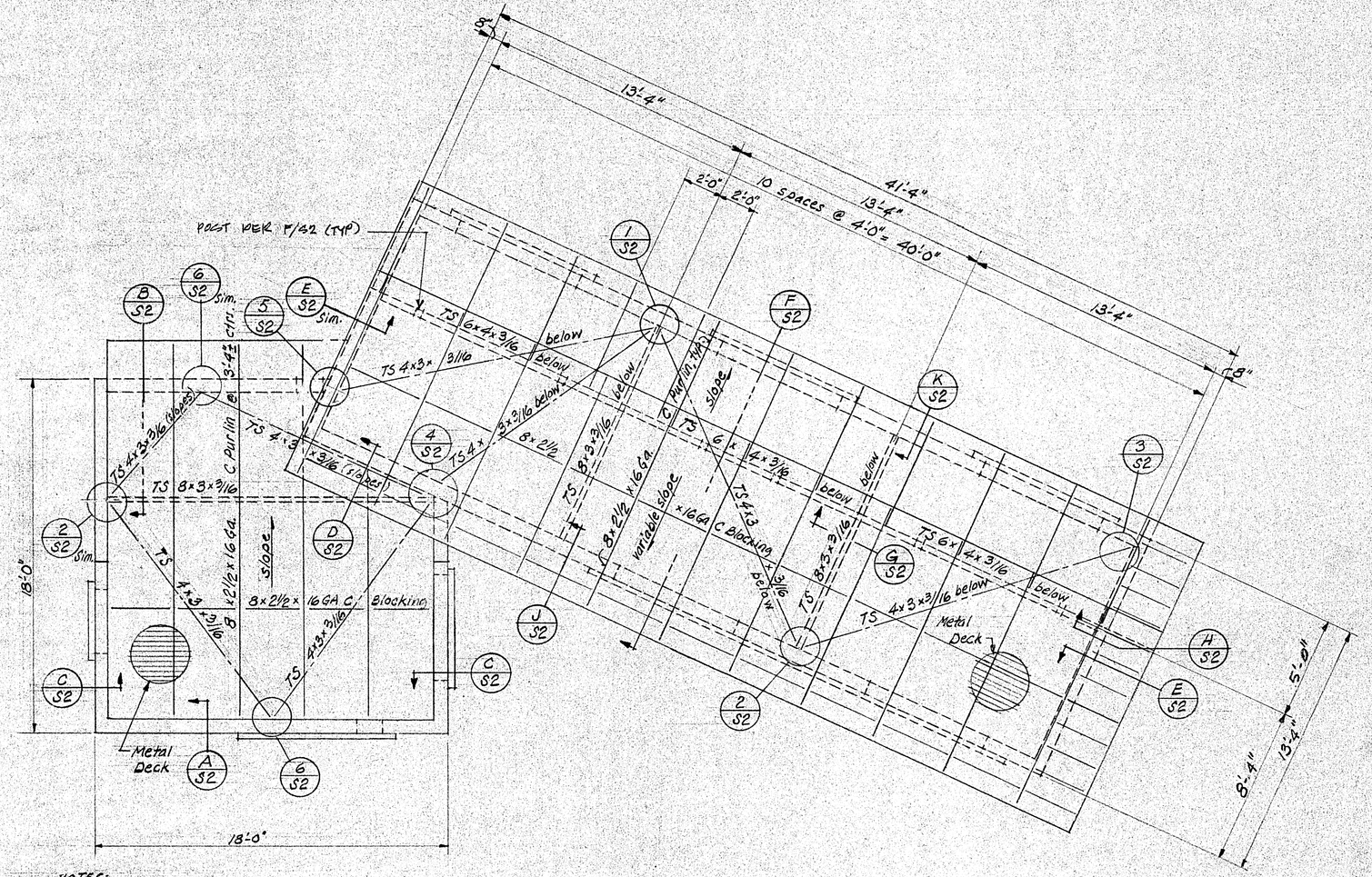


NOTES:
1. Finished Floor El. +101'-6" unless noted otherwise.
2. Elevation of bottom of foundation shown thus: (99'-6")
3. Interior floor 6" concrete slab on 2" sand on vapor barrier on 4" granular fill.
4. Exterior concrete paving 6" concrete slab on 4" granular fill.
5. Reinforce concrete slabs with #4 @ 12" ctrs. ea. way, placed with 2" clear to top of slab.
6. Footings and slabs on grade shall bear on 12" of fill compacted to 90% relative compaction.
7. Dimensions are to face of concrete or nominal face of CMU, based on CMU module.

1/S1 FOUNDATION AND FLOOR FRAMING PLAN
Scale: 1/4"=1'-0"

REFERENCE NORTH



NOTES:
1. Metal Deck is nominal 11/16" x 2½" corrugated 24 Ga. hot-dipped galvanized steel sheets. Fasten sheathing to framing with No. 10-16 galv. screws @ 10" ctrs.
2. Provide calculations signed by a Civil Engineer registered in the State of California for light gauge metal framing members. Design Criteria: 20 psf Live Load, 70 mph basic wind speed, exposure C, 1994 UBC.
3. All framing & fasteners not accessible in finished construction shall be hot-dipped galvanized.
4. Dimensions are to nominal face of CMU, based on CMU module.

2/S1 ROOF FRAMING PLAN
Scale: 1/4"=1'0"

REFERENCE NORTH

GENERAL NOTES:

1. All features of construction not fully shown shall be of the same type and character as shown for similar conditions.
2. The contractor shall verify existing conditions at the site before proceeding with the work.
3. In the event of discrepancies between the structural drawings and other contract documents, notify the Architect and obtain clarification before proceeding with the work.
4. Refer to the Architectural Drawings for details of door and window openings, finishes, waterproofing, insulation and drainage. Refer to the Mechanical and Electrical Drawings for details of ducts, piping, conduits, sleeves, penetrations, fixtures and equipment.
5. Materials and construction shall conform to the Uniform Building Code, 1994 Edition.
6. Concrete construction shall conform to ACI 318-89. Concrete shall attain an ultimate compressive strength of 3000 psi. at the age of 28 days. Submit concrete mix design, with recent test results of that mix design, for review. Reinforcing steel shall conform to ASTM A615, Grade 60. Reinforcing steel which is to be welded shall conform to ASM A706. Submit shop drawings showing reinforcing placement for review. Horizontal construction joints shall be cleaned and roughened to expose aggregate. Place 1 inch of cement paste against old concrete before placing new concrete. Expansion bolts in concrete shall be ITW Ramset/Redhead Trubolts. Embed ½" dia. expansion bolts 4½" min. with 3" edge distance. Test 50% of ½" dia. Trubolt wedge anchors to 2000 lb. tension.
7. Concrete masonry unit construction shall conform to UBC Chapter 21, and UBC Standards 21-4, 21-6 and ASTM C90-86. Wall units shall be hollow masonry load bearing units, Grade N. Mortar shall be Type M, conforming to UBC Chapter 21, and UBC Standard 21-15. Walls shall be constructed true and plumb and shall conform to UBC Chapter 21. Compressive strength of masonry $f'm$ = 1500 psi. Walls shall be constructed in running bond with 3/8" joints and with full mortar coverage on face shells and webs. Joints shall be grooved with a V bar or round bar to produce a slightly concave surface. All cells shall be grouted full. Grout shall attain a compressive strength of 2000 psi. at the age of 28 days. Provide cleanouts at every other cell, with bond beam units or webs removed to provide access to cells without cleanouts, at the base and bottom of grout lifts. Reinforcing steel shall conform to ASTM A615, Grade 60. Reinforcing bars shall be held in position using cradle positioners as manufactured by W.C.R. Fabricators, San Clemente, CA. Vertical reinforcing shall be #5 @ 24" ctrs. with one #5 vertical at corners and the edge of openings. Horizontal reinforcing shall be 2-#5 @ 24" ctrs. in bond beam units. Provide full length 2-#5 at the top of wall and at top and bottom of all wall openings. All wall reinforcing shall terminate in standard hooks. Special Inspection per UBC Section 1701.5.5 shall be provided by an approved agency paid for by the owner. Quality assurance per UBC Section 2105 for full allowable stresses shall be provided by an approved agency paid for by the owner. Expansion bolts in masonry shall be ITW Ramset/Red Head Dynabolts. Embedment, spacing and edge distance shall be as required by ICBO Research Report No. 1372. Test 50% of expansion anchors to twice the allowable tension per ICBO RR No. 1372.
8. Fabrication and erection of structural steel shall conform to the AISC Manual of Steel Construction. Structural steel shall conform to ASTM A36. Structural steel tubing shall conform to ASTM A500, Grade B. Steel pipe shall conform to ASTM A53, Type E or S, Grade B. Bolts and threaded fasteners shall conform to ASTM A307 or A36. Provide shop drawings for review. Welding shall conform to AWS D1.1. All welding requires inspection by an approved agency paid for by the owner.
9. Light gauge steel framing shall be manufactured by Western Metal Lath Company or approved equal with current ICBO Research Report. Studs shall be connected to track with 2-No.10-16 ea. contact. Blocking or bridging shall be connected to studs with 2-No.10-16 ea. contact. Purlin Channels shall be manufactured by Berridge Manufacturing Co., BHP Steel Building Products USA Inc., or approved equal. Curved steel framing shall be formed without reducing the strength or stiffness of the material.

DESIGN CRITERIA

1. Roof Live Load 20 psf
   Floor Live Load 100 psf
2. Design is based on the Uniform Building Code, 1994 Edition.
   Wind: 70 mph basic wind speed, Exposure C, partially enclosed.
   Seismic: $V = ZICW/R_w = 0.4 \times 1.0 \times 2.75 \times W/6 = 0.183\,W$
   Masonry bearing wall system with shear walls.
3. Foundation: Harding Lawson Associates report dated August 2, 1994 HLA Project No. 35827.1.
   Foundation allowable soil bearing pressure 1500 psf for dead plus live loads, increased by one-half for total loads including wind or seismic.

SPECIAL INSPECTION

Special Inspection, per UBC Chapter 17, is required for the following types of work:
1. Concrete. During the taking of test specimens and placing of reinforced concrete, except site work fully supported on earth, and non-structural slabs on grade.
2. Bolts installed in concrete.
4. Reinforcing steel placement for concrete requiring inspection for item 1, above.
5. Structural welding (with exceptions allowed by UBC 1705.1)
7. Structural masonry. Required $f'm$ = 1500 psi. See General Note 7. Inspection required at the start of laying units, after the placement of reinforcing steel, grout space prior to each grouting operation and during all grouting operations.
13. Special grading, excavation and filling. As required by UBC Chapter 18 and Appendix Chapter 33, under the direction of Harding Lawson Associates.

H.J. BRUNNER ASSOCIATES
STRUCTURAL ENGINEERS
SAN FRANCISCO, CALIFORNIA

MARSHALL / LEE INC.
ARCHITECTS A.I.A.
888 POST STREET 885-5873
SAN FRANCISCO CA 94109

MARIN WOOD COMMUNITY SERVICES DISTRICT
775 MILLER CREEK ROAD
SAN RAFAEL, CA 94903-1323

MARINWOOD COMMUNITY SWIMMING POOL - 775 MILLER CREEK ROAD, SAN RAFAEL, CA 94903-1323

FOUNDATION AND FRAMING PLANS
GENERAL NOTES

DATE: 8/16/96
REV. 9/24/96

SCALE: ½"=1'-0"

SHEET
S1