

MONOLITHIC DOME INSTITUTE
177 DOME PARK PLACE
ITALY, TEXAS 76661
972-485-7123



10-30

CLIENT INFORMATION:
MONOLITHIC DOME INSTITUTE
177 DOME PARK PLACE
ITALY, TEXAS 76661

DATE:
22 JUNE 2007

DRAWN BY:
JC

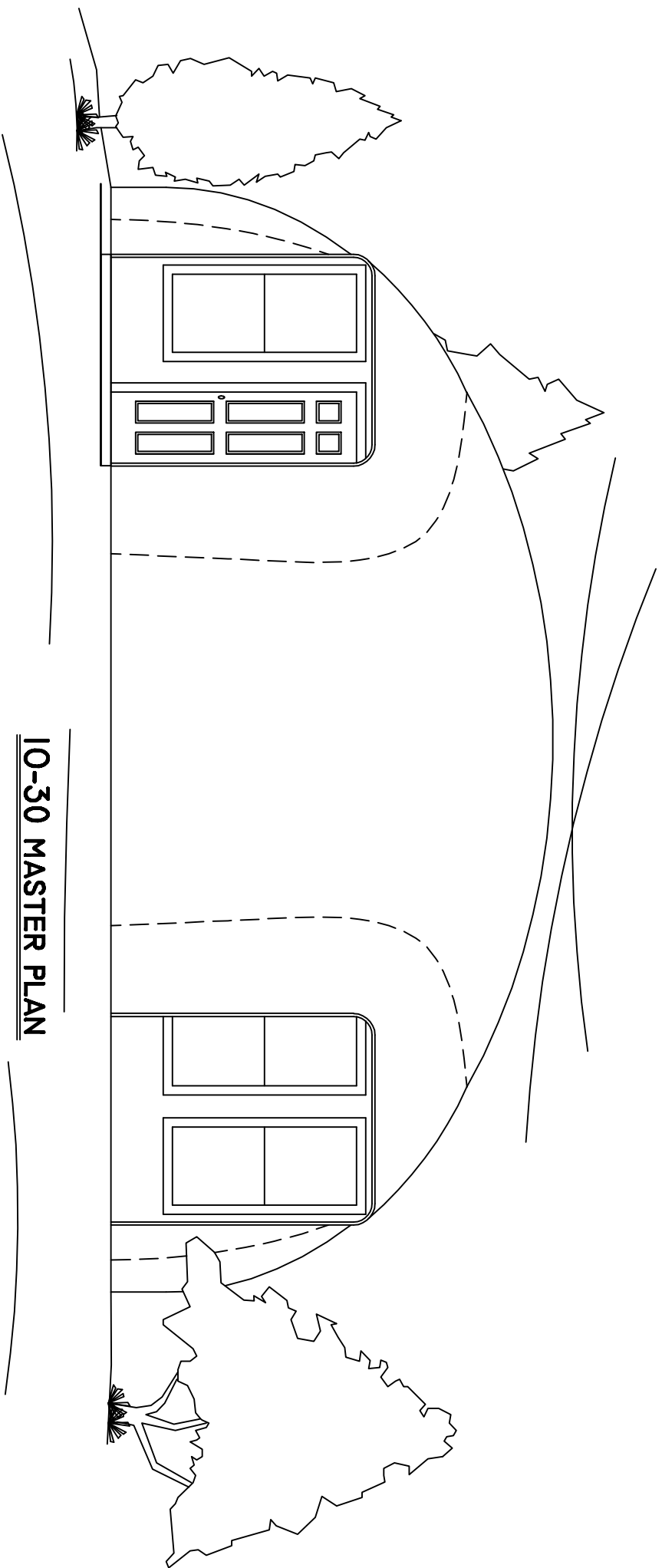
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JLB

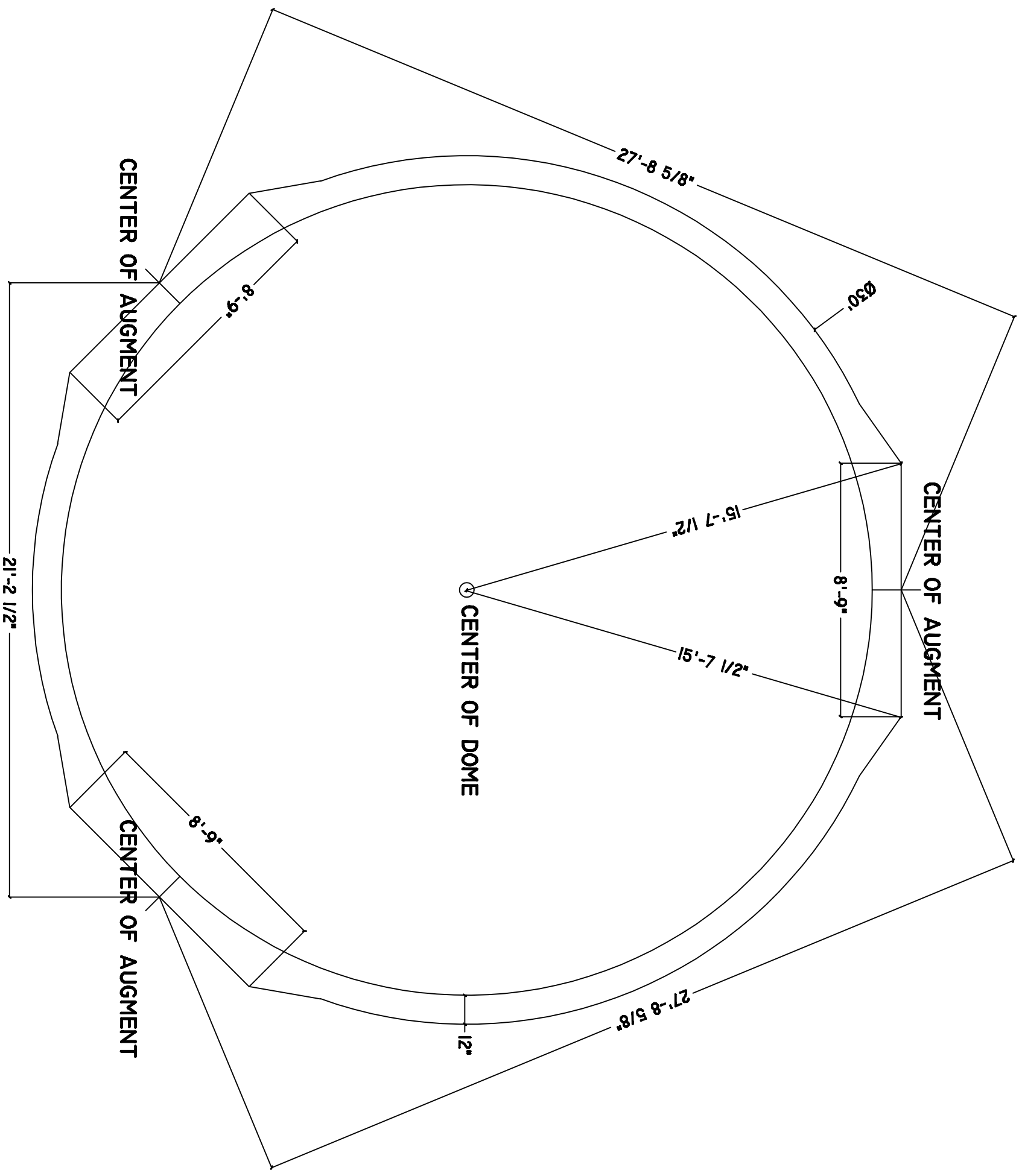
SCALE:
1/4" = 1'


COVER

PROJECT:
0000

PAGE:
1






MONOLITHIC DOME INSTITUTE
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SCALE:
 1/4" = 1'

FOUNDATION
PLAN

PROJECT:
 0000
PAGE:
 2



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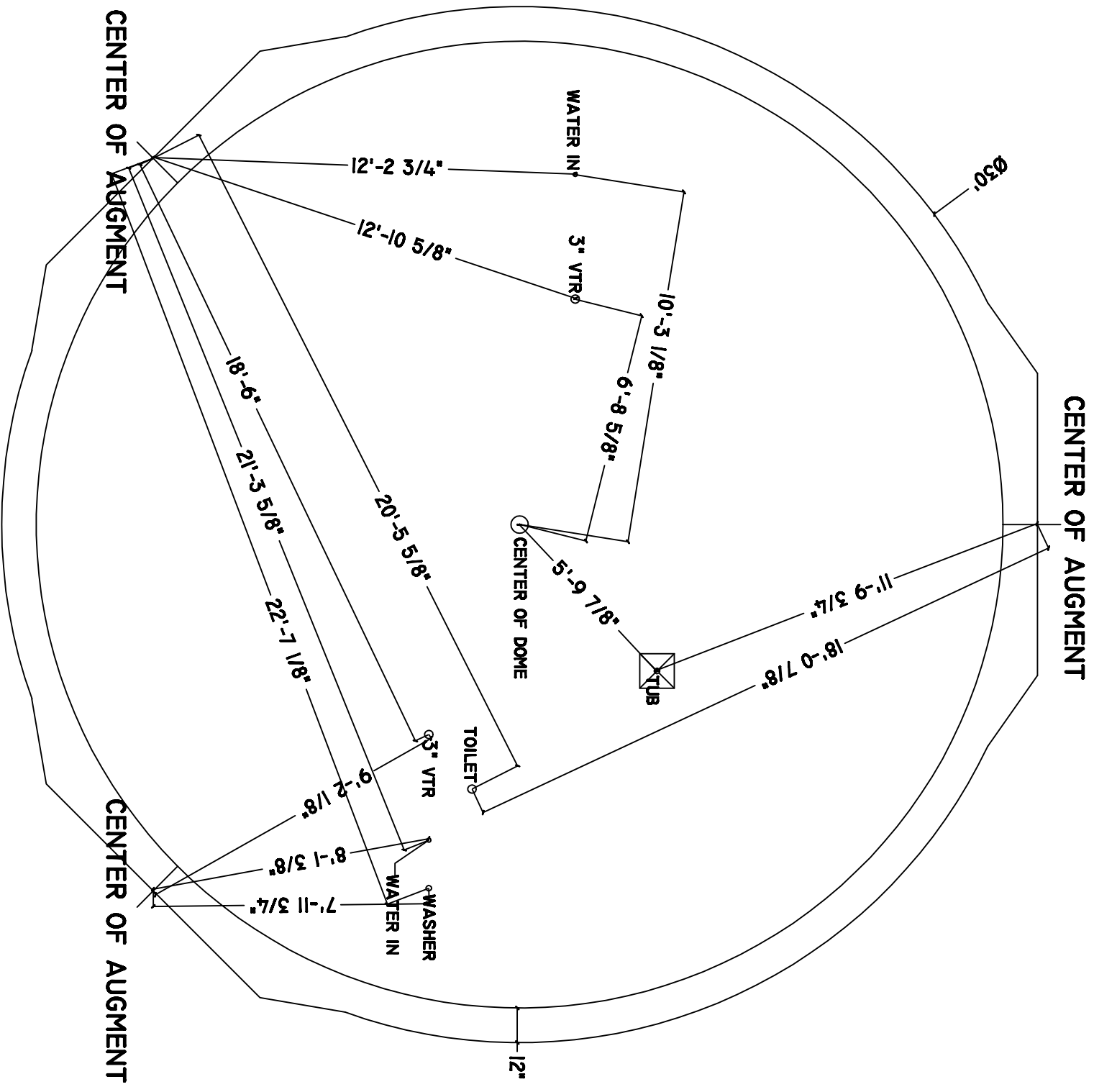
ROUGH PLUMBING
 LAYOUT

PROJECT:

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PAGE:

3





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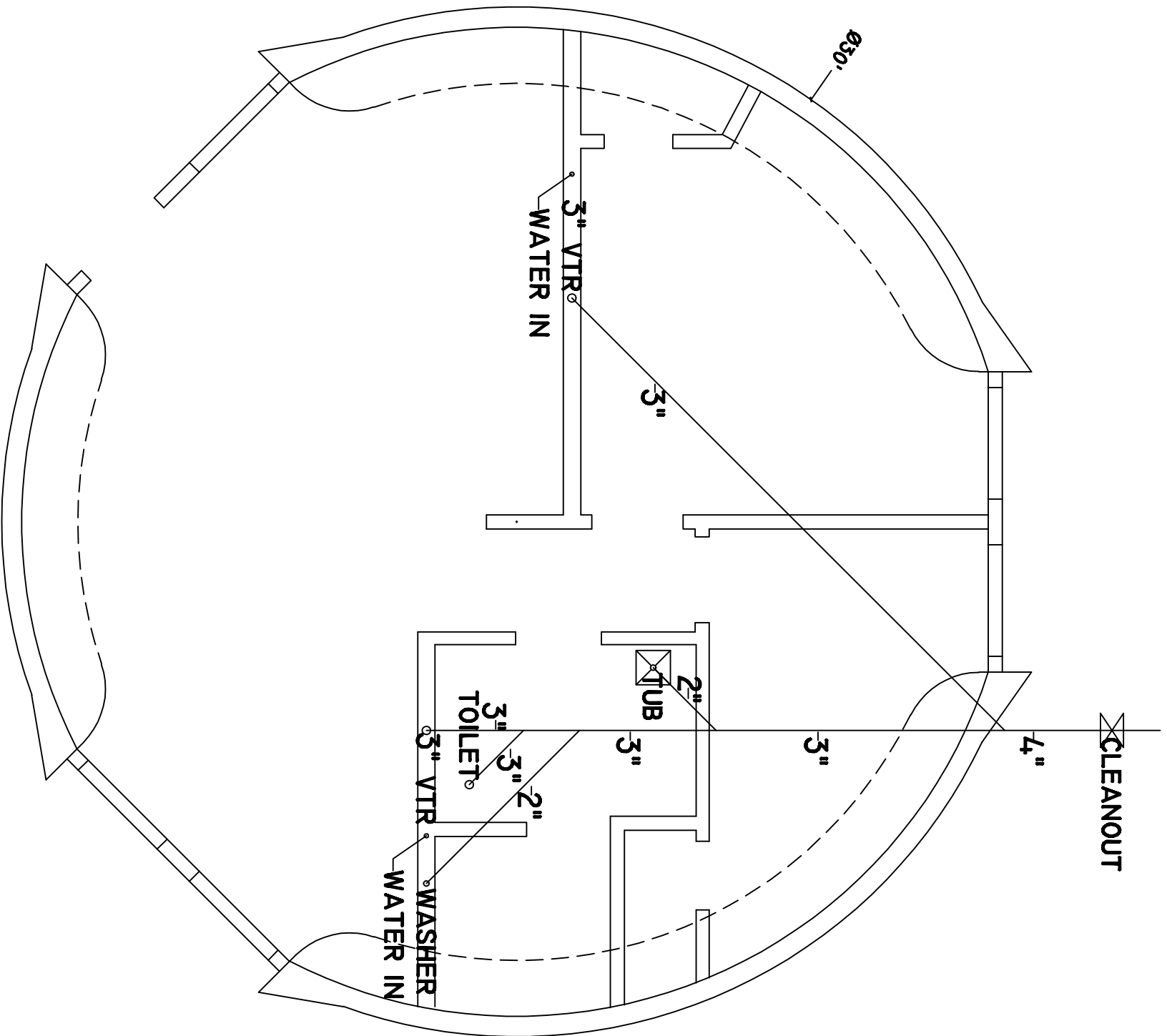
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SCALE:
1/4" = 1'

PLUMBING
PLAN

PROJECT:
0000

PAGE:
4





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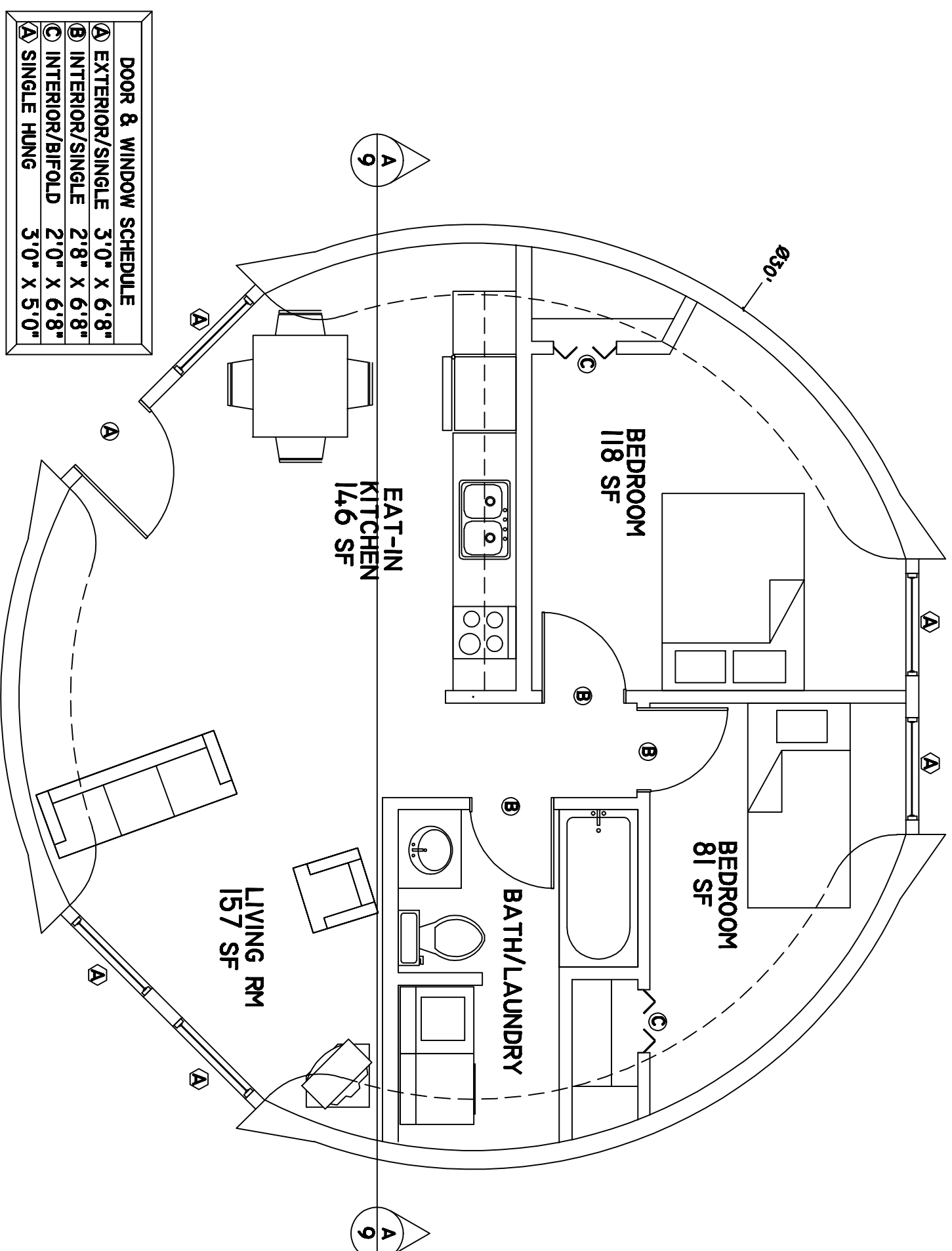
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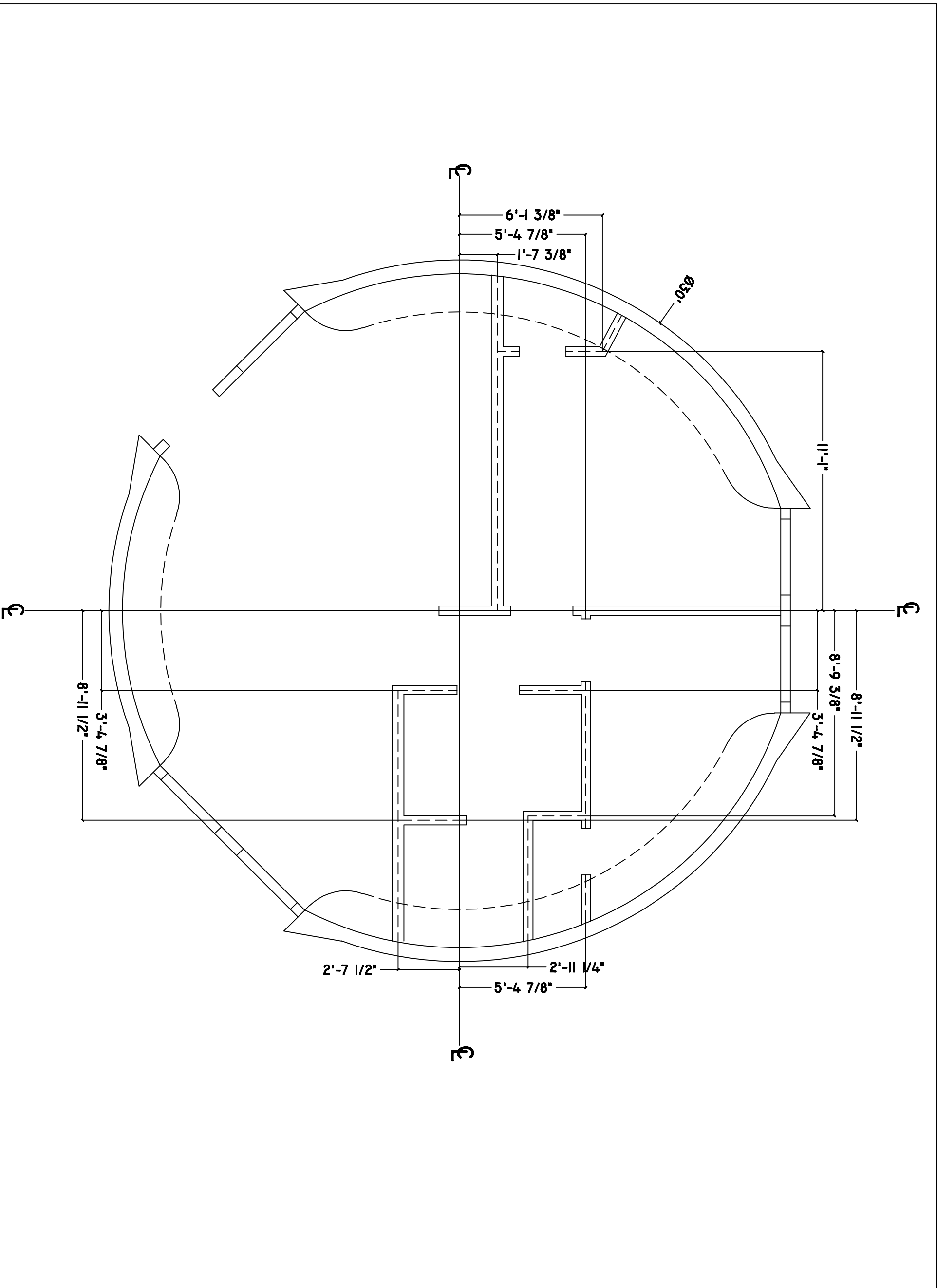
SCALE:
1/4" = 1'


FLOOR
PLAN

PROJECT:
0000

PAGE:
5






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SCALE:
 1/4" = 1'

DIMENSION PLAN

PROJECT:
 0000
PAGE:
 6

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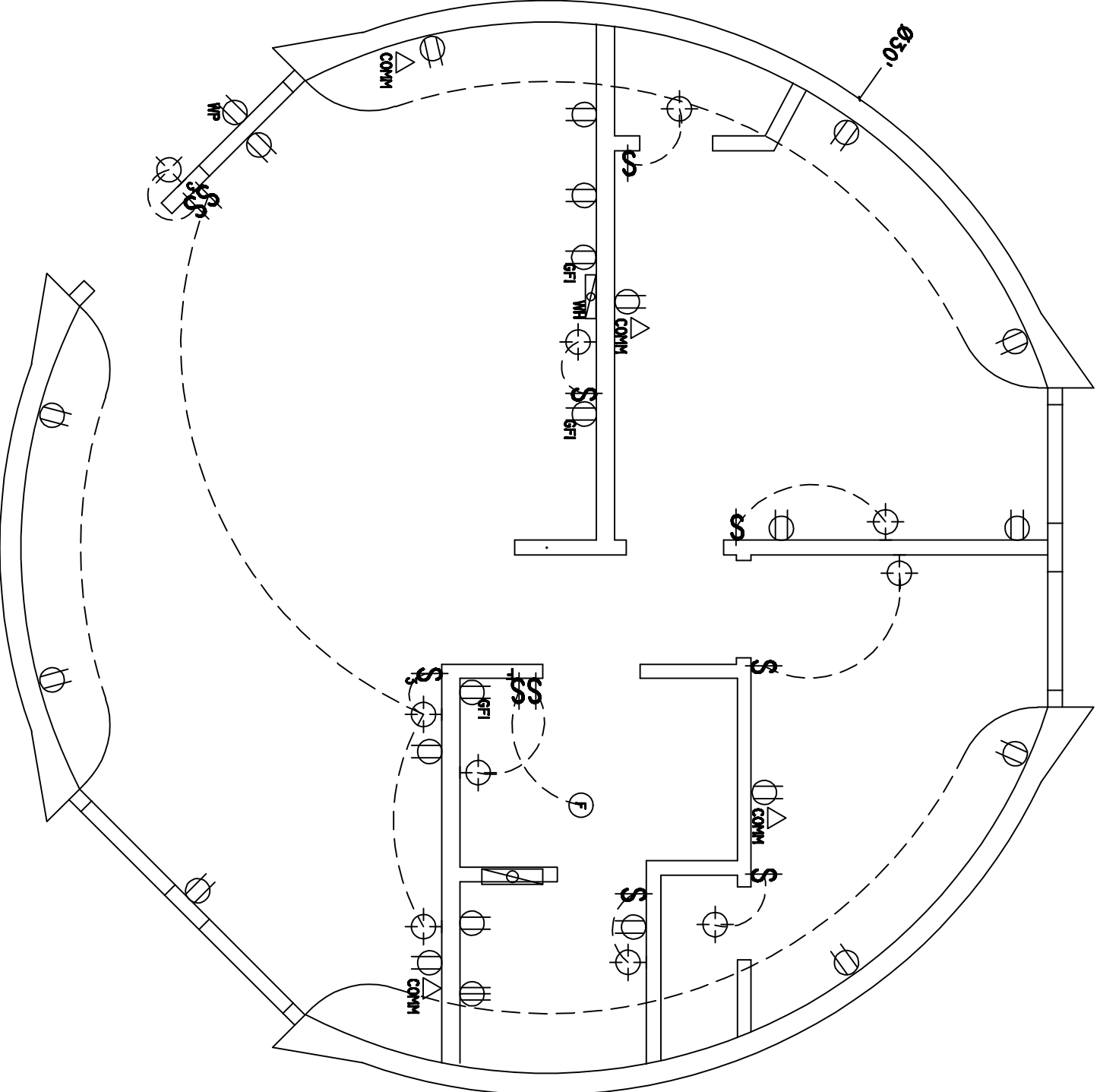
ELECTRICAL
 PLAN

PROJECT:
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PAGE:
 7

SYMBOLS

- COMMUNICATIONS OUTLET
- CEILING LIGHT
- WALL LIGHT
- BATH FAN
- LIGHT SWITCH
- THREE WAY SWITCH
- FAN SWITCH
- 220 V OUTLET
- 120 V DUPLEX OUTLET
- GROUND FAULT INTERRUPT OUTLET
- WEATHER PROOF OUTLET
- ELECTRICAL PANEL
- ON DEMAND WATER HEATER



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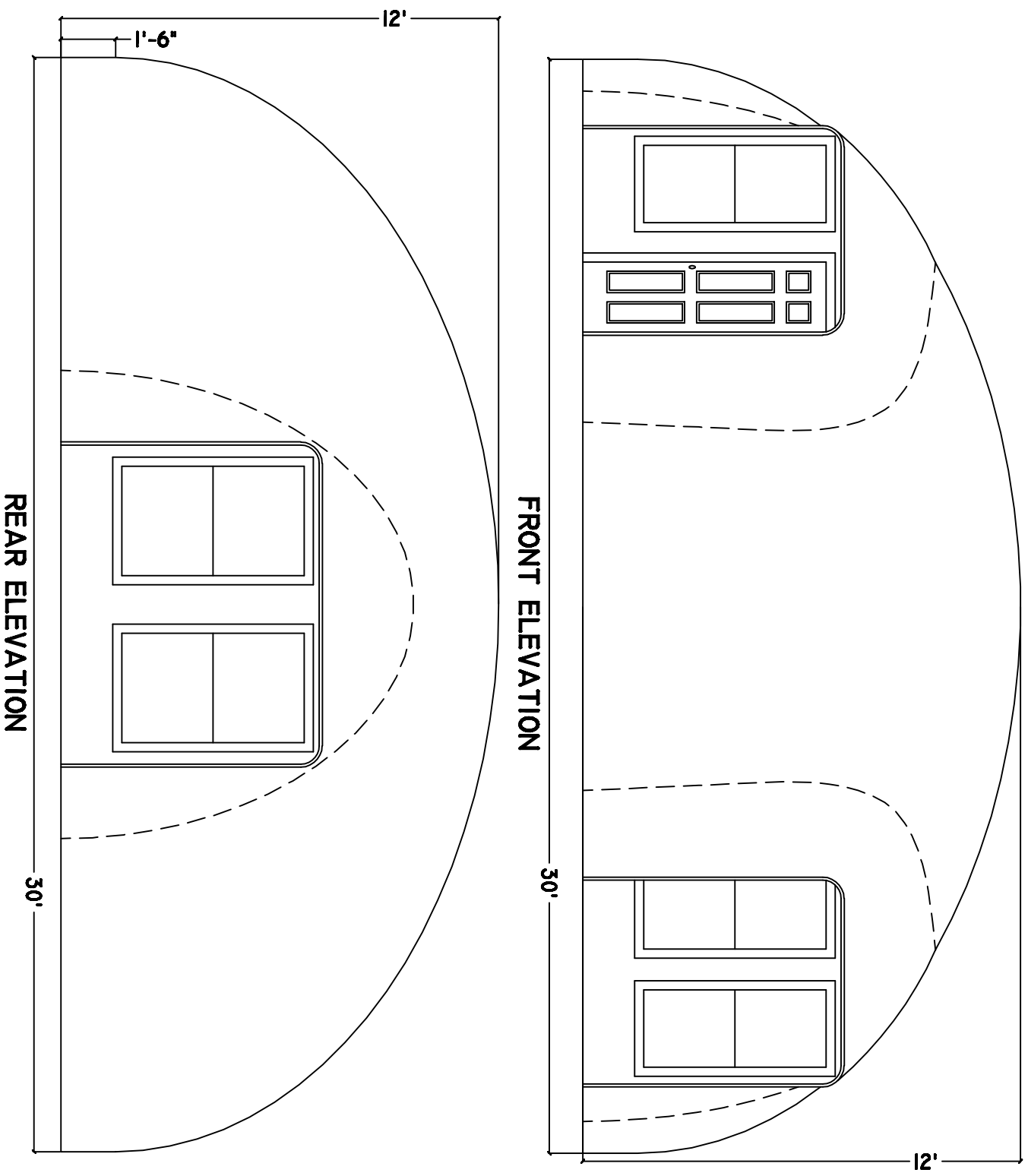
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SCALE:
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ELEVATIONS

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8



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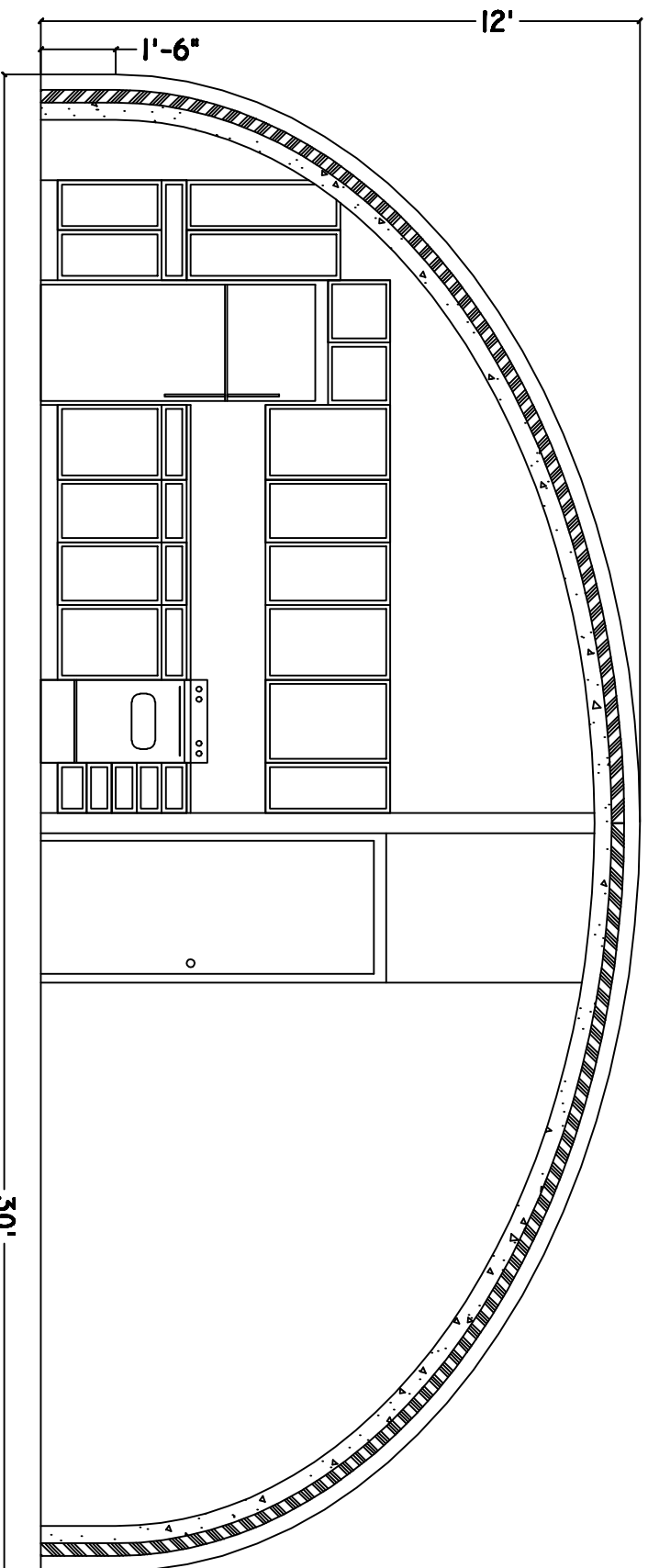
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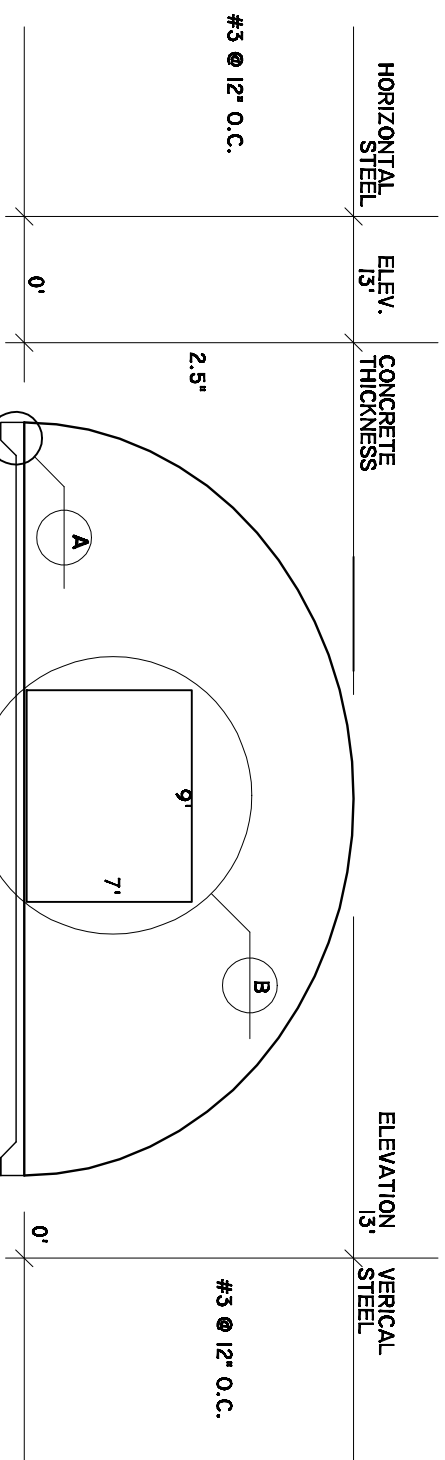
SECTION A-A'

PROJECT:
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PAGE:
9



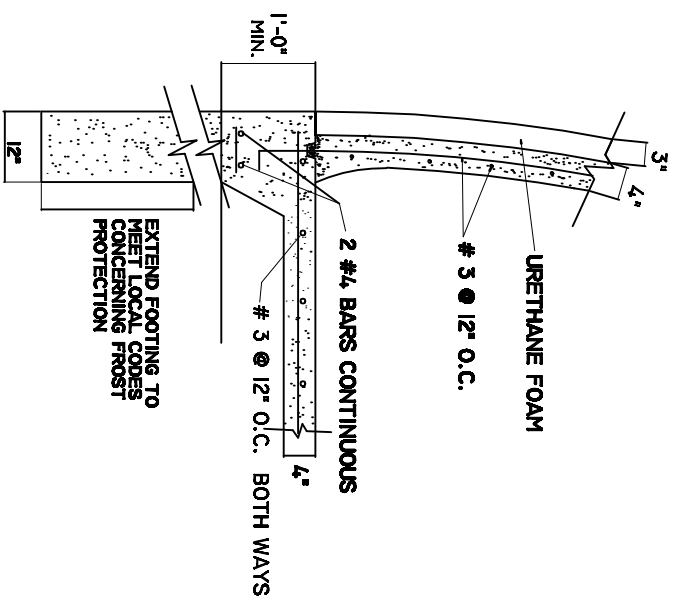
SECTION A-A'
A
9



STEEL SCHEDULE FOR 30' X 13' DOME
NOT TO SCALE

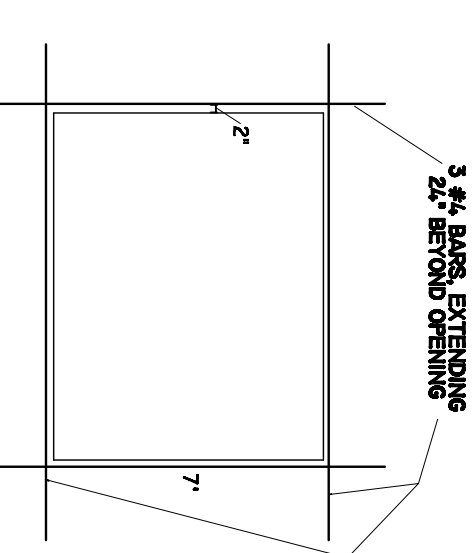
NOTES:

1. SHELL CONCRETE: F'C = 4KSI, AIR ENTRAINED 5 TO 7 PERCENT.
2. FOOTING CONCRETE: F'C = 3KSI.
3. STEEL: REINFORCING OF GRADE 60. F_y = 60KSI.
4. ADD 2 #4 REBAR AROUND 4' DIA. OR SMALLER SKYLIGHTS OR OPENINGS.
5. DESIGN LOADS: DEAD LOAD OF SHELL PLUS 10PSF CEILING & ROOFING. PLUS SNOW LOAD OF 70PSF. WIND LOAD = 50PSF.
6. LAP REBAR FOR TENSION SPICE IN SHELL. CLASS B ACI 318-85 #8...47", #6...28", #5...23", #4 & #3...18". IF MORE THAN 50% OF SPLICES OCCUR WITHIN THE LAP SPICE LENGTH THEN INCREASE LAP BY 1.7 TIMES.
7. LAP REBAR FOR TENSION SPICE IN FOOTINGS. CLASS B ACI 318-85. #8...36", #6...24", #5...18", #4 & #3...12". IF MORE THAN 50% OF SPLICES OCCUR WITHIN THE LAP SPICE LENGTH THEN INCREASE LAP BY 1.7 TIMES.
8. PROVIDE TAPERED 2"X4" NOMINAL KEYWAY BETWEEN SHELL & FOOTING. MAY BE DONE BY MANUALLY REMOVING SOME MATERIAL & TAMPING A KEYWAY KEYWAY MAY BE INSIDE OF VERTICAL REBAR.
9. SPACING OF REBAR: CLEAR DISTANCE BETWEEN PARALLEL BARS IN ONE LAYER SHALL BE NOT LESS THAN D NOR 1".



DETAIL - FOOTING AND WALL SECTION
NOT TO SCALE

A



STEEL SCHEDULE AT OPENINGS
(TYP. OF 7' WIDE TO 16' WIDE)
NOT TO SCALE

B

02-10

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ENGINEERING

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