

GENERAL STRUCTURAL NOTES

A. DESIGN CRITERIA

1. ACCESS VAULT DESIGN STANDARDS..... ACI 318-05, AISC LATEST EDITION
2. ACCESS VAULT LOADS:
- LIVE LOAD 100 PSF
3. SEISMIC LOADS:
- OCCUPANCY CATEGORY..... II
- S_p 0.784
- S_s 0.37
- SITE CLASS D

B. FOUNDATION

1. AT ACCESS VAULTS, DO NOT BACK FILL WALLS UNTIL ACCESS VAULT LIDS ARE IN PLACE AND CONCRETE HAS ACHIEVED DESIGN STRENGTH. BRING GRADE UP EVENLY (WITH MAXIMUM 8" LIFTS) ON ALL SIDES TO FINAL ELEVATIONS.

C. CONCRETE

1. ALL CAST-IN-PLACE CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH (f'_c) OF 4000 PSI.
2. REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60, UNLESS OTHERWISE NOTED, EXCEPT #3 BARS WHICH MAY BE GRADE 40.
3. DETAIL REINFORCING BARS IN ACCORDANCE WITH THE ACI DETAILING MANUAL AND THE ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, LATEST EDITION.
4. CONCRETE SHALL MEET ALL REQUIREMENTS OF ACI 301 SPECIFICATION FOR STRUCTURAL CONCRETE BUILDINGS.
5. HORIZONTAL FOUNDATION AND WALL REINFORCING SHALL BE CONTINUOUS AROUND CORNERS AND INTERSECTIONS; PROVIDE CORNER BARS.
6. LAP ALL REINFORCING 61 BAR DIAMETERS.
7. PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCING AT POSITIONS SHOWN ON THE DRAWINGS. PROVIDE SUFFICIENT THE BARS TO SUPPORT ALL REINFORCING.
8. PROVIDE REINFORCEMENT AS FOLLOWS, UNLESS NOTED OTHERWISE ON DRAWINGS:

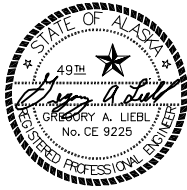
CONCRETE POURED AGAINST EARTH	3"
CONCRETE POURED IN FORMS	1 1/2" TYPICAL EXCEPT AS NOTED BELOW
CONCRETE POURED IN FORMS	2" IF FACE OF CONCRETE IS IN CONTACT WITH EARTH
CONCRETE SLABS ON GRADE	PLACE REINFORCING AT SLAB MID-DEPTH

D. STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL WIDE FLANGE MEMBERS SHALL BE ASTM A992 GRADE 50 (Fy = 50 KSI).
2. SQUARE/ RECTANGULAR HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM A500 GRADE B (Fy = 46 KSI)
3. ROUND HSS (PIPES) SHALL CONFORM TO ASTM A53 GRADE B (Fy = 35 KSI).
4. ANGLES, CHANNELS, AND PLATES SHALL BE ASTM A36 (Fy = 36 KSI).
5. ALL STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC STEEL CONSTRUCTION MANUAL.
6. WELDING SHALL BE PERFORMED WITH E70XX ELECTRODES. WELDING SHALL BE DONE BY QUALIFIED WELDERS AND SHALL CONFORM TO THE LATEST EDITION OF THE AWS CODE. ALL WELDS ARE INTENDED TO BE CONTINUOUS UNLESS NOTED OTHERWISE.
7. FIELD WELDS NOTED THROUGHOUT THE CONTRACT DOCUMENTS ARE ACCEPTABLE LOCATIONS FOR FIELD WELDING. AT THE CONTRACTOR'S OPTION, FIELD WELDS MAY BE PERFORMED IN THE SHOP.

E. GENERAL

1. CONTRACTOR IS TO FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS TO MATCH NEW CONSTRUCTION TO EXISTING CONSTRUCTION.



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8/20/2010

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GENERAL NOTES

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USKH W.O. 1267800

Technical drawing of a rectangular structure, likely a foundation or wall, showing reinforcement details and dimensions. The drawing includes the following labels and dimensions:

- ACCESS HATCH**: Located at the top right corner.
- HYDROPHILIC WATERSTOP**: Indicated at several locations along the perimeter.
- 3'-6"**: Dimension for the width of the structure.
- #4 @ 16" O.C.**: Reinforcement bar size and spacing for the top horizontal section.
- #6 @ 6" O.C.**: Reinforcement bar size and spacing for the bottom horizontal section.
- (5) #8 CONT.**: Continuation of reinforcement bars.
- #5 @ 10" O.C. VERT.**: Vertical reinforcement bar size and spacing.
- #4 @ 16" O.C. HORIZ.**: Horizontal reinforcement bar size and spacing.
- #5 X 3'-6" @ 10" O.C. 12"**: Reinforcement bar size, spacing, and length for the vertical section.
- LADDER**: A vertical structural element inside the structure.
- 8"**: Dimension for the thickness of the structure.
- 9'-0"**: Dimension for the height of the structure.
- (2) #5 CONT. TOP AND BOTTOM**: Continuation of reinforcement bars at the top and bottom.
- #5 @ 12" O.C. EA. WAY**: Reinforcement bar size and spacing for the bottom horizontal section.

Architectural floor plan of a mechanical room. The central feature is a square aluminum access hatch, 3'-6" on each side, reinforced with a grid of bars. This hatch is surrounded by 8" risers on all four sides. The hatch is located within a larger room area. To the left of the hatch is a utility closet labeled (E) UTILIDOR. To the right of the hatch is another utility closet labeled (E) UTILIDOR. A vent is located on the right wall. Structural elements include (5) #8 bars and (3) #8 bars. Section markers 4/S2 and 3/S2 are shown on the left. A north arrow is in the bottom right.

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