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_s..... 0.784
   S_1..... 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 TIE BARS TO SUPPORT ALL REINFORCING.
8. PROVIDE REINFORCEMENT COVER 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 MANUAL OF STEEL CONSTRUCTION.
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.

STATE OF ALASKA
49TH
GREGORY A. LIEBL
No. CE 9225
REGISTERED PROFESSIONAL ENGINEER

Date Stamped: 8/20/2010

By	Revision	Date

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Sheet Contents:
GENERAL
NOTES

Sheet No.:
S1

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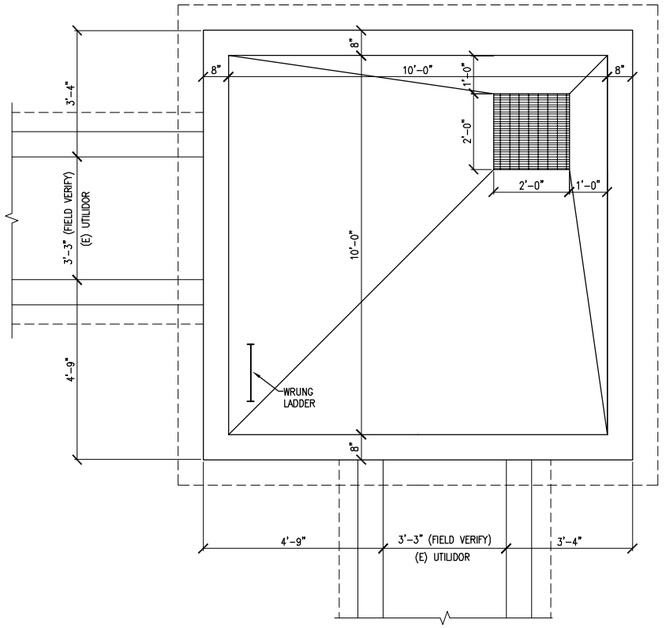
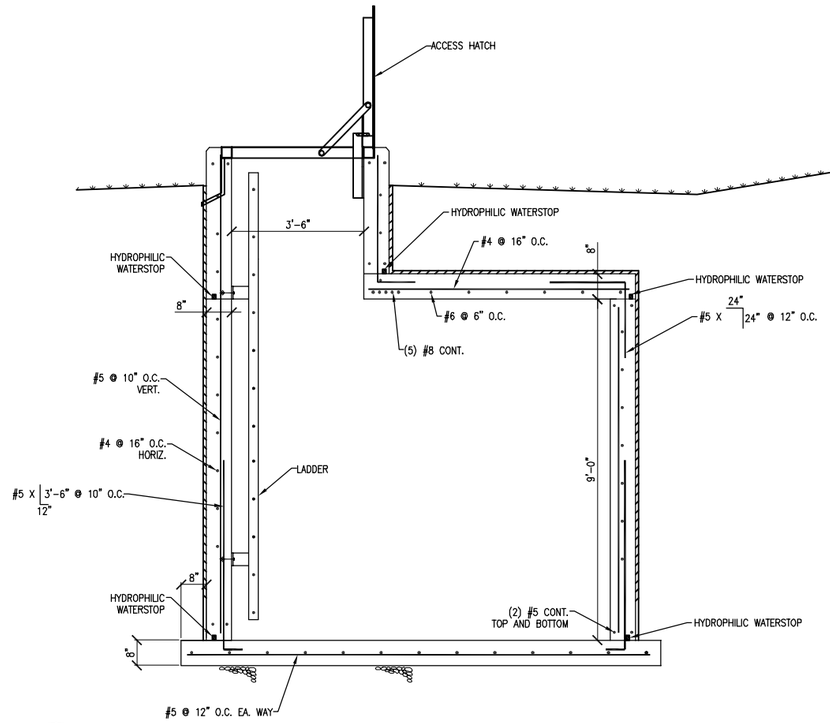


1 ACCESS VAULT G6-9-3 FOUNDATION PLAN

S2 — 1:24 1/2" = 1'-0"



3 ACCESS VAULT G6-9-3 SECTION

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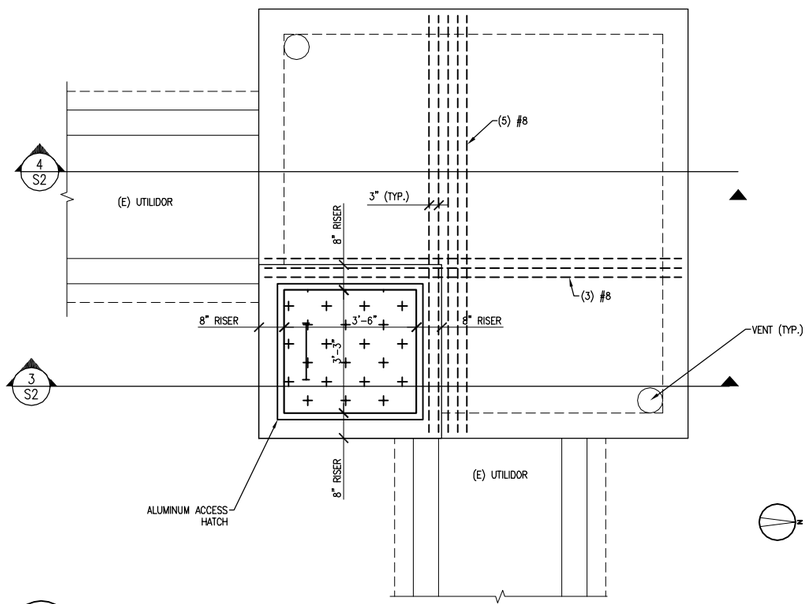

2 ACCESS VAULT G6-9-3 LID PLAN

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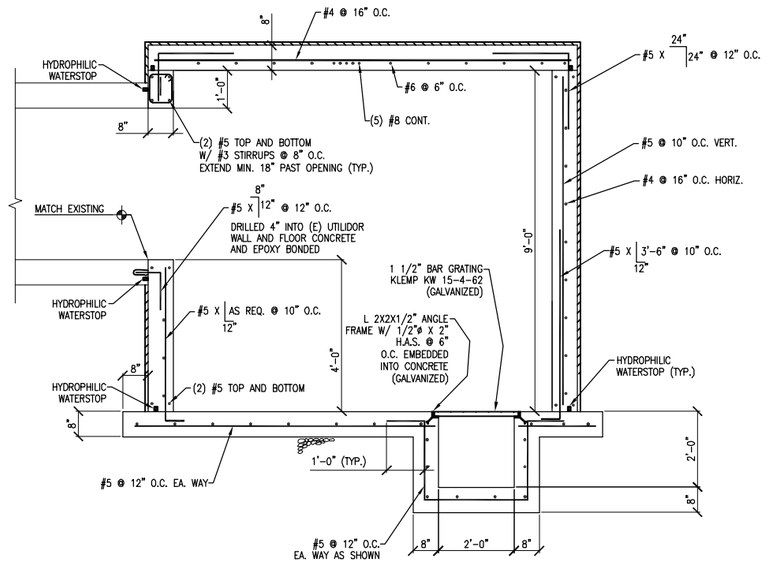

4 ACCESS VAULT G6-9-3 SECTION

S2 — 1:24 1/2" = 1'-0"

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Sheet Contents:

ACCESS VAULT
G6-9-3
PLANS AND
SECTIONS

Sheet No.:

S2

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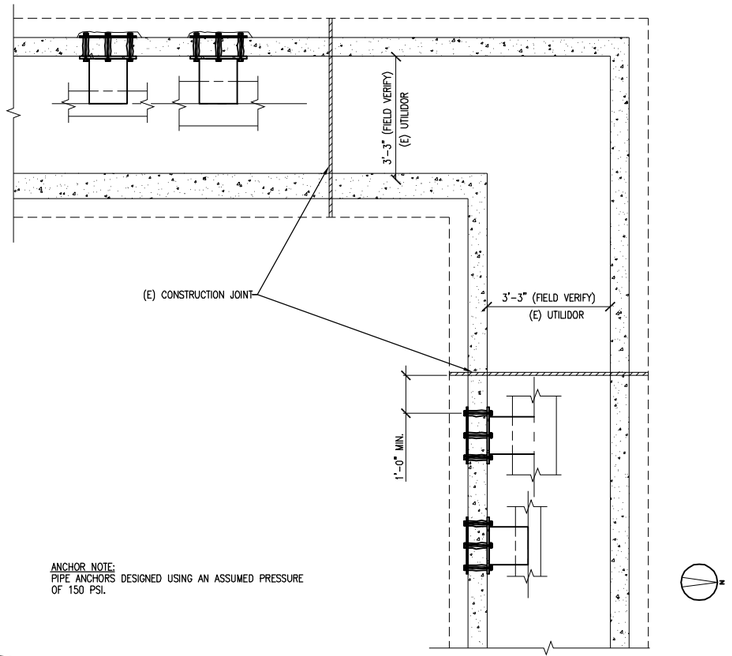
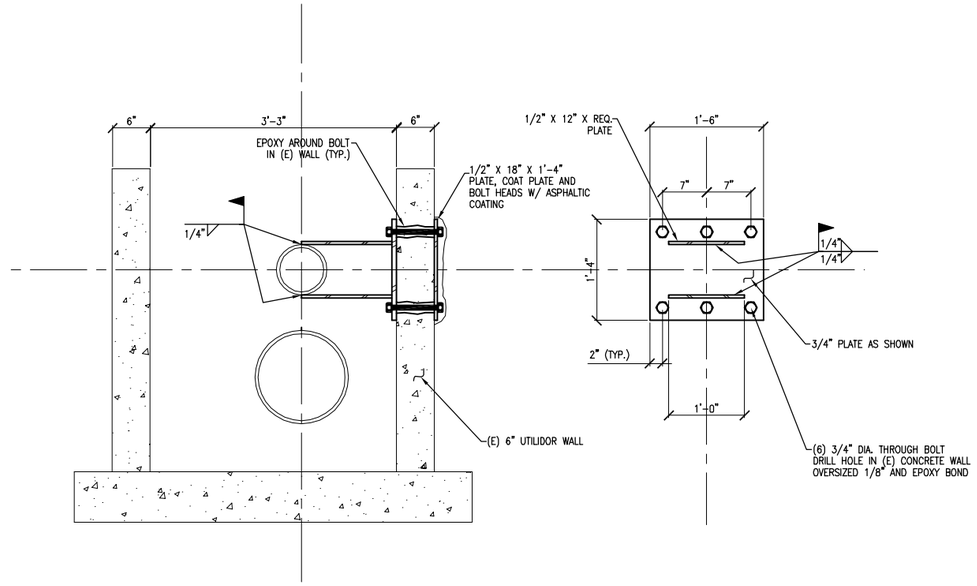


1 S3 TEMPORARY ANCHOR PLAN

1:24 1/2" = 1'-0"



3 S3 8" DIAMETER WATER ANCHOR SECTIONS

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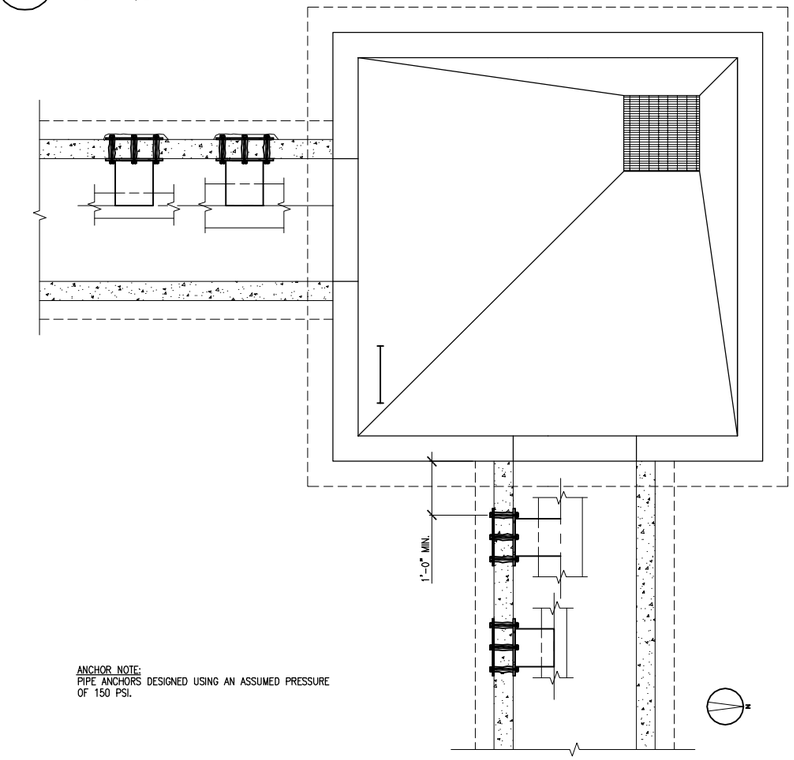
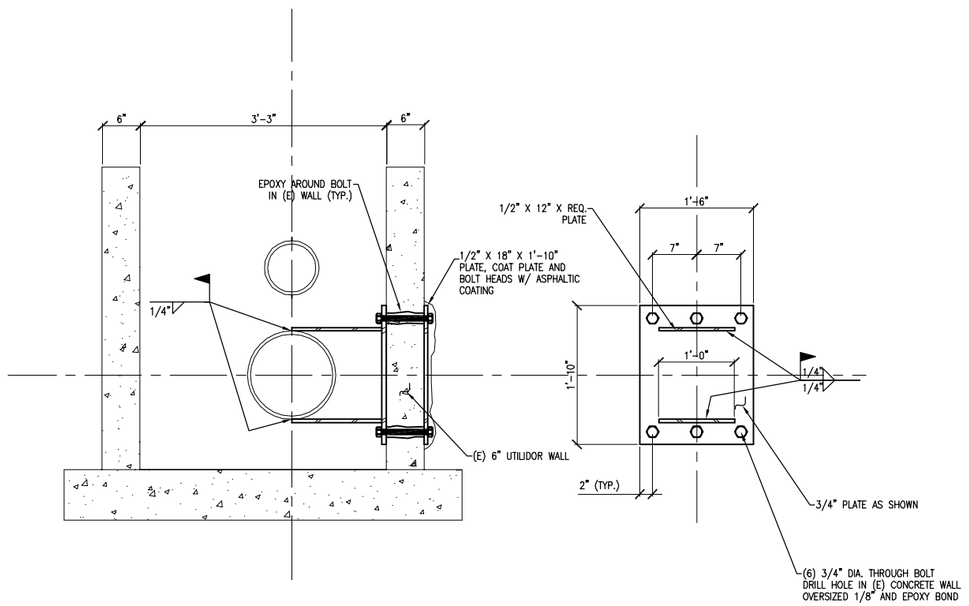


2 S3 PERMANENT ANCHOR PLAN

1:24 1/2" = 1'-0"



4 S3 14" DIAMETER DELUGE ANCHOR SECTIONS

1:12 1" = 1'-0"

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Sheet Contents:
ACCESS VAULT G6-9-3 TEMPORARY/ PERMANENT PIPE ANCHORS

Sheet No.:
S3

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