

DOME SHELL THICKNESS: 3" AT 4'0" FROM WALL

1 1/2-SB-1 WIRE BAR SUPPORTS ALL AROUND AT 4' FROM DOME EDGE TO SUPPORT RESTEEL

FIELD BEND OUTSIDE VERTICAL RESTEEL TO PROVIDE 1" MINIMUM AND 2" MAXIMUM COVER

EL. TOW 24.83  
TOP OF STEEL  
SHELL DIAPHRAGM  
SPRINGLINE

LIMIT OF DOME BAND  
PRESTRESSING WIRES

OUTSIDE VERTICAL RESTEEL

CORE WALL = 3 1/2" AT TOP OF WALL

- NOTES:
1. SEAL DOME RIB BRACKET ANCHORS WITH "THORITE"
  2. SANDBLAST TOP OF CORE WALL AND IMMEDIATELY PRIOR TO CASTING DOME, COAT WITH BONDING EPOXY (SIKADUR 32 HI-MOD OR EQUAL)

68 CONTINUOUS SHEETS 17'1 1/2" LONG OF 26 GAUGE STEEL SHELL DIAPHRAGM. NO HORIZONTAL JOINTS.

DOME RING DETAIL

SHOOT MIN. OF 1" COVER COAT OVER PRESTRESSING WIRES

PRESTRESSING WIRES

HORIZONTAL CIRCUMFERENTIAL RESTEEL  
BOTTOM 3' OF WALL

OUTSIDE VERTICAL RESTEEL: #4 AT 12"  
ALTERNATE 21' & 23' LONG BARS  
(114 EACH REQ.)

CLEAR DISTANCE BETWEEN DIAPHRAGM & MID-WALL VERTICAL RESTEEL 3/4" MIN. AT BASE OF WALL

SHOOT MIN. 1/8" COVER BETWEEN VERTICAL BARS & PRESTRESSING WIRES AND BETWEEN EACH LAYER OF PRESTRESSING WIRES

HORIZONTAL WALL SECTION

CORE WALL = 3 1/2" AT BASE OF WALL

OUTSIDE VERTICAL RESTEEL

PRESTRESSING WIRES

#4 AT 12" MID-WALL  
(228 REQ.)

7-#4 CIRCUMFERENTIAL BARS AT 6"

LIMIT OF PRESTRESSING WIRES

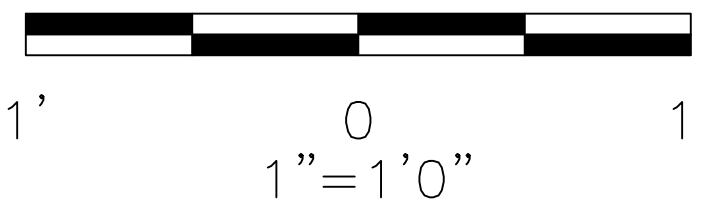
LIMIT OF STEEL SHELL  
EL. CONSTR. GR. 7.17

MAX. REBOUND EL. 7.50

#4 AT 12" MID-WALL 3'  
(228 REQ.)

FLOOR-WALL DETAIL

TYPICAL WALL DETAILS



NOTES:

1. SHOTCRETE SHALL BE APPLIED BY OR UNDER DIRECT SUPERVISION OF NOZZLEMEN CERTIFIED BY THE AMERICAN CONCRETE INSTITUTE AS OUTLINED IN ACI CERTIFICATION PUBLICATION CP-60.
2. TENSION IN PRESTRESSING WIRE SHALL BE MEASURED BY AN ELECTRONIC DIRECT-READING STRESSOMETER ACCURATE TO WITHIN 2%.

3" CONCRETE DOME WITH 4x4 W3.0 x W3.0 WELDED WIRE FABRIC ON 1 1/2-SB-1 WIRE BAR SUPPORTS SPACED AT 4' c/c

ACCESS HATCH WITH FIBERGLASS COVER

3'6"

EL. HWL 24.83

SEE DOME RING  
DETAIL THIS SHEET

26 GAUGE STEEL SHELL DIAPHRAGM  
SEAL FROM BOTTOM TO TOP BY EPOXY INJECTION PER U.S. PATENT NO. 5,150,551. NO HORIZONTAL JOINTS ALLOWED.

1" COVER OVER STEEL SHELL DIAPHRAGM

PRESTRESSED COMPOSITE WALL:  
STEEL SHELL/SHOTCRETE CONSTRUCTION

70'0" INSIDE DIAMETER

SOFT BROOM FINISH INSIDE AND OUTSIDE,  
RIPPLE PATTERN ACCEPTABLE INSIDE

SEE HORIZONTAL WALL SECTION  
THIS SHEET

CORE WALL 3 1/2" FROM TOP TO BOTTOM

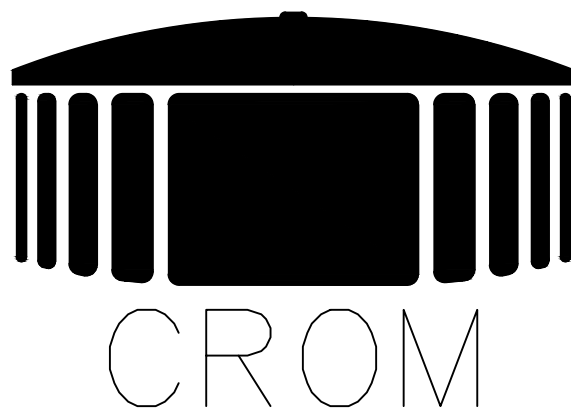
EL. 10.50 SS WALL MANHOLE

SEE FLOOR-WALL  
DETAIL THIS SHEET

EL. FIN. FL. 7.50

4" CONCRETE FLOOR WITH #4 AT 8"  
EACH WAY. SOFT BROOM FINISH.

PRESTRESSING SCHEDULE



DEPARTMENT OF VETERANS  
AFFAIRS MEDICAL CENTER  
BACK-UP WATER SUPPLY  
VA CONTRACT No. V516C-981  
VA PROJECT NO. 516-05-301  
JANUARY 2006

TANK BUILDER:  
THE CROM CORPORATION  
GAINESVILLE, FLORIDA

OWNER:  
DEPARTMENT  
OF VETERANS AFFAIRS  
BAY PINES, FLORIDA

CONSULTING ENGINEER:  
ANDREYEV ENGINEERING  
SANFORD  
FLORIDA

TANK DESCRIPTION:  
500,000 GALLON  
RESERVOIR

TANK DIMENSIONS:  
70'0" ID x 17'4" SWD

DATE: 01/10/06

DRAWN: OEA

CHECKED:

APPROVED:

DESIGNED:

REV. DESCRIPTION DATE CK.BY

WHERE STANDARD SPECIFICATIONS ARE IN CONFLICT WITH CROM CORPORATION SPECIFICATIONS OR WITH GOOD PRE-STRESSING OR SHOTCRETE PRACTICES THE STANDARD SPECIFICATIONS SHALL BE SUBORDINATED.  
THIS DESIGN AND DRAWING ORIGINATED BY AND THE EXCLUSIVE PROPERTY OF THE CROM CORPORATION.

BAR IS ONE INCH ON ORIGINAL,  
DRAWINGS 0 1"

SCALE:

AS NOTED

FILE NO.

05068

SHEET

OF

9