

Savannah River Site	
Supplier Document Status	
1.	<input checked="" type="checkbox"/> Work may proceed.
2.	<input type="checkbox"/> Submit Final Document work may proceed.
3.	<input type="checkbox"/> Review and Resubmit. Work may proceed subject to Resolution of Comments.
4.	<input type="checkbox"/> Review and Resubmit. Work may not proceed.
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Permitted to proceed does not constitute acceptance or approval of design details, calculations, test methods, analyses or materials developed or selected by the supplier, and does not relieve supplier from full compliance with contractual obligations or release of any "hold" placed on the contract.

WBC0001K-004-F-NDM
Document Category: L.O.
Date: 6/11/09
Reviewer: Ramon Patel

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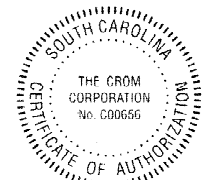
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14. MUD MAT, TYPE V CONCRETE CURB & CONSTRUCTION MANHOLE
15. 24" PVC DOWNCOMER EMBED

2.9-MG SALTSTONE STORAGE TANKS 2A & 2B

PROJECT: AREA Z SALTSTONE STORAGE TANKS
AIKEN, SOUTH CAROLINA

OWNER: DEPARTMENT OF ENERGY
SAVANNAH RIVER SITE
AIKEN, SOUTH CAROLINA

CONSULTING ENGINEER: BECHTEL SAVANNAH RIVER, INC.
AIKEN, SOUTH CAROLINA



ENGINEERING DOC. CONTROL-SRS
00893084

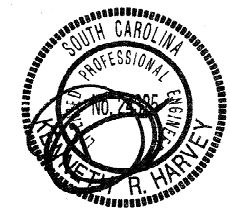
THE CROM CORPORATION	
Prestressed Composite Tanks	
REV	COMMENTS
A	REVISED SHEETS 2-6 & 8-15
A	REVISED SHEETS 2, 6, 8, 9, 11 & 15
B	REVISED SHEETS 2, 6, 7, 8, 10 & 14
C	REVISED SHEET 8
C	REVISED SHEETS 7, 12 & 14

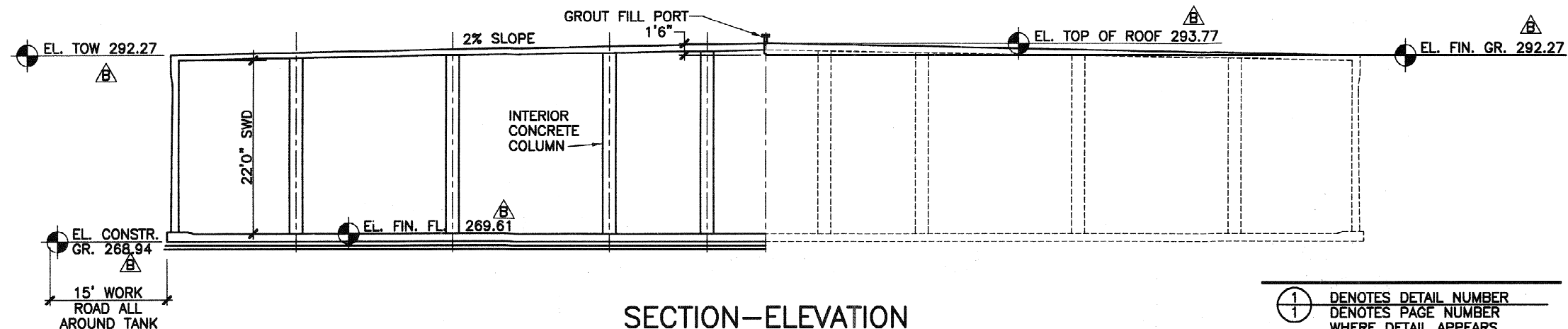
Revisions are designated by a letter following the FILE NUMBER.
UPPER CASE letters indicate APPROVED distribution.

DATE: 11/18/08
DRAWN: MAL
CHECKED: DAB/MLM
APPROVED: LOB
DESIGNED: KCH

FILE NUMBER: 08084SD
REV C

SHEET: 1 OF 15





SECTION-ELEVATION

NOTES

Materials & Services Furnished by SRS: (REF: C-SPP-Z-0006 R1 SECTION 13210 PARA 2.2 B1~B5)

1. Concrete: Type V Cement
 - A. 5000 psi pump mix with 3/4" aggregate for upper mud mat floor, roof, columns, precast wall panels and floor wall joint curb.
2. Material Testing:
 - A. Concrete:
 1. Slump: ASTM C 143/C 143M
 2. Air Content: C 231
 3. Density and Yield: ASTM C 138/C 138M
 4. Compression Tests: ASTM C 39/C 38M

A set of test cylinders consists of ten (10) cylinders. For pours less than 100 cubic yards test the first truck and the last truck.

For pours greater than 100 cubic yards test the first truck, last truck and every 100 cubic yards.

Materials & Services Furnished by MDM:

1. Clearing of the site, excavation, fill, and compaction to an elevation 8" below top of floor slab on a 186" diameter circle including two 4" thick concrete mud mats under the tank and a temporary 3"-thick stone, 15'-wide, work road all around the tank over plywood.
2. Dewatering of the 186" diameter work area if required.
3. Furnish adequate working and open storage space for construction equipment and materials.
4. Water and electricity for construction.
5. Interior coating.
6. Drain water collection system. (REF: C-CH-Z-00014)
7. Final backfill and landscaping.
8. Concrete: Type II Cement
 - A. 2000 psi pump mix with 3/4" aggregate
9. Material Testing:
 - A. Concrete
 1. Slump: ASTM C 143/C 143M
 2. Air Content: C 231
 3. Density and Yield: ASTM C 138/C 138M
 4. Compression Tests: ASTM C 39/C 38M

A set of concrete cylinders consists of three cylinders for normal conditions or four cylinders for cold concreting conditions taken from the first delivery truck and from one set from each 100 cubic yards of the concrete placed thereafter.

Maintain the cylinders on-site for twenty-four (24) hours and then transport to the laboratory for curing in accordance with ASTM C 31/ C 31M.

One additional test cylinder shall be taken during cold weather concreting, cured on the job site under the same conditions as the concrete it represents and tested at 28 days.

- iv. Test concrete compressive strength in accordance with ASTM C 39/C 39M.
 - a. Test one (1) cylinder from each set at seven (7) days.
 - b. Test one (1) cylinder from each set at twenty-eight (28) days.
 - c. Hold remaining cylinder/s in reserve and test only at the direction of BSRI STR.
10. Interior visual liquid level indicator using epoxy coating
11. Exterior Roof Coating (REF: C-SPP-Z-0006 R1 SECTION 13210 PARA 3.3K)

Materials & Services Furnished by CROM:

- A. Design Criteria:
 1. Geotechnical:
 - i. Uplift: Tank is not designed to resist loads due to hydrostatic uplift.
 - ii. Allowable Bearing Capacity: 3500 psf
 2. Wind load:
 - i. Basic Wind Speed: 150 MPH
 - ii. Importance factor: 1.15
 - iii. Exposure Category: C
 3. Seismic load:
 - i. Spectral response Accelerations:
 - a. Ss: .600
 - b. S1: .200
 - ii. Occupancy Category: III
 - iii. Importance Factor: 1.5
 - iv. Site Classification: D
 4. Live Loads:
 - i. Dome Live Load: 30 psf
 5. Saltstone drain water load:
 - i. Wall: 82 lbs/ft³
- B. Shotcrete Mixes:
 1. Shotcrete Mixes: Use Type II Cement
 - (a) 1st coat on steel shell & prestress wire: 1:3 mix
 - (b) All other shotcrete: 1:4 mix
 - (c) Strength: fg = 4000 psi, fgi = 2000 psi
 - (d) Shotcrete material testing. Take 5 cylinders, shoot one panel and shoot five baskets every day that shotcrete is placed.

- C. Curing: (7 days minimum)
 1. Continuously water cure floor and wall during tank construction.
 2. Water cure roof 7 days.

- D. Reinforcing Steel:
 1. ASTM A615 grade 60, lap splices 48 bar diameters

- E. Prestressing Wire: Meets ASTM A821 05 Type B
 1. Diameter: 0.162 in (8 gauge)
 2. Area: 0.0206 sq-in.
 3. Ultimate Strength: 231,000 psi
 4. Initial Stress: 145,600 psi
 5. Working Stress: 115,000 psi

- F. Steel Shell Diaphragm: Meets ASTM A1008-05b, 26 gauge

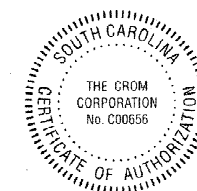
- G. Accessories (each tank except as noted): (Shop prime all exposed steel)
 1. Floor embedments:
 - (a) Thermowell floor embed plate (4 req.)
 2. Wall embedments:
 - (a) Wall Mounting Plates per Detail 3 of DWG C-CH-Z-00014
 3. Roof embedments (see LEGEND sheet 4 and 5):
 - (a) 6" diameter thermowell roof penetrations (4 req.)
 - (b) Thermowell junction box embed plate (4 req.)
 - (c) 36" diameter camera port (3 req.)
 - (d) Camera junction box embed plate (3 req.)
 - (e) 3" diameter grout fill port
 - (f) Grout fill support embed plates (8 req.)
 - (g) Conduit support embed plates (38 req. for tank 2A, 36 req. for tank 2B))
 - (h) 12" diameter ventilation port (3 req.)
 - (i) 8" diameter sample port
 - (j) 3" diameter inspection port (58 req.)
 - (k) 3" diameter drain vent (2 req.)
 - (l) Temporary roof access opening
 - (m) 26" ID 36" OD embedment for 24" PVC downcomer

- H. Material Testing:
 1. Shotcrete:
 - (a) Compression Tests: ASTM C 39/C 39M, C 109/C 109M

Four cylinders (or cores) per set (for each set, test one at 7 days, two at 28 days, and hold one)

 - i. 2 sets for outside core wall
 - ii. 2 sets for cover coat

- I. Tolerances:
 - Columns:
 - Plumb: ± 1 inch
 - Location: ± 1 inch
 - Thickness: + 1/2 inch
 - Wall:
 - Diameter: + 1.5 inches
 - Thickness: + 1/2 inch
 - Roof:
 - Thickness: + 1/2 inch



TANK BUILDER:
THE CROM CORPORATION
GAINESVILLE, FLORIDA

OWNER:
DEPT OF ENERGY
SAVANNAH RIVER SITE

AIKEN
SOUTH CAROLINA

CONSULTING ENGINEER:
BECHTEL
SAVANNAH RIVER, INC.

AIKEN
SOUTH CAROLINA

TANK DESCRIPTION:
2.9-MG SALTSTONE
STORAGE TANKS

TANK DIMENSIONS:
150'0" ID x 22'0" SWD

DATE: 11/18/08

DRAWN: MAL

CHECKED: DAB/MLM

APPROVED: LOB

DESIGNED: KCH

REV.	DESCRIPTION	DATE	CHK. BY
1	REVISED NOTES.	12/16/08	
2	REVISED NOTES.	1/15/09	
3	REVISED TANK ELEVATIONS. REVISED NOTES.	3/27/09	

REVISED NOTES.

12/16/08

REVISED NOTES.

1/15/09

REVISED TANK ELEVATIONS. REVISED NOTES.

3/27/09

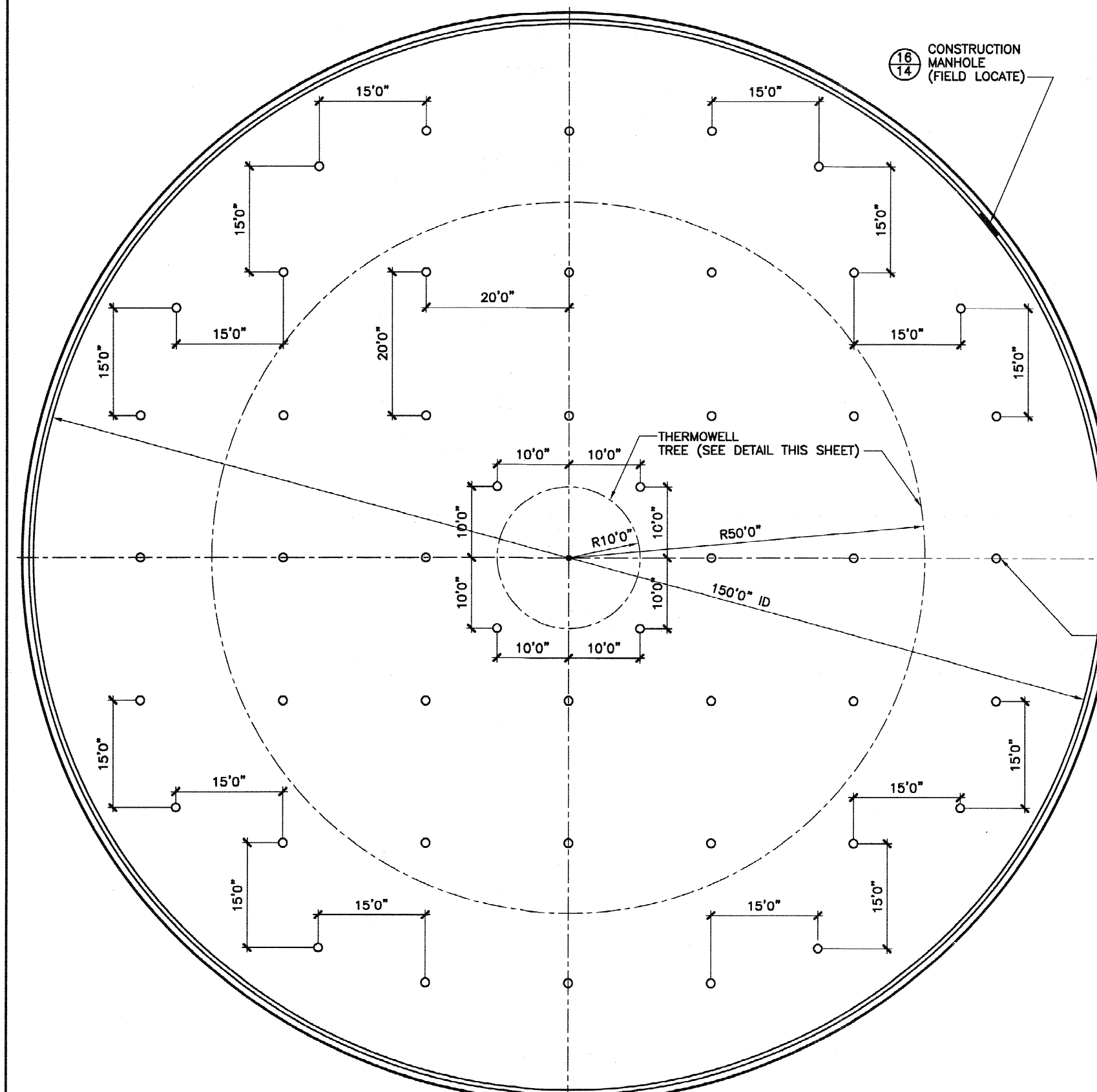
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SCALE: 2' 0" 5' 10" 3/32"=1'0"

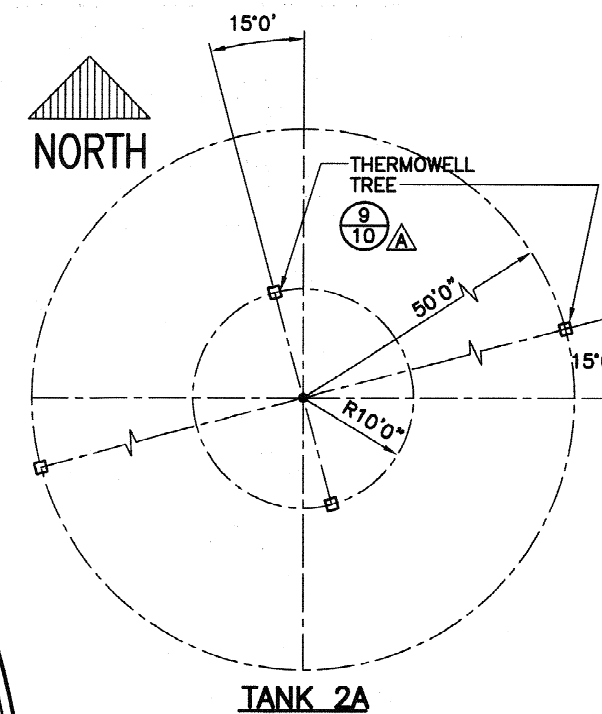
FILE NO. 08084SD

SHEET 2 OF 15



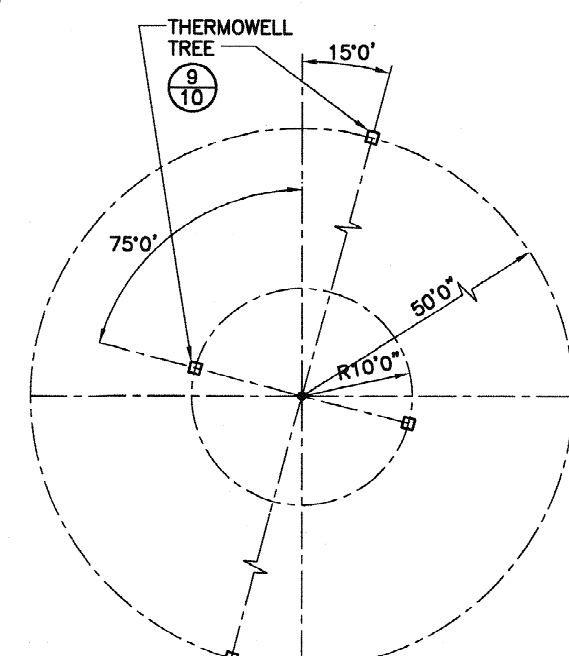
TANK FLOOR PLAN

NOTE: FIELD VERIFY ALL
ACCESSORY
LOCATIONS WITH
ENGINEER PRIOR
TO PLACEMENT.



TANK 2A

INTERIOR
COLUMNS SPACED AT
20'0" EXCEPT AS NOTED
(48 REQ.)
SEE SHEET NO. 6



TANK 2B



TANK BUILDER:
THE CROM CORPORATION
GAINESVILLE, FLORIDA

OWNER:
DEPT OF ENERGY
SAVANNAH RIVER SITE
AIKEN
SOUTH CAROLINA

CONSULTING ENGINEER:
BECHTEL
SAVANNAH RIVER, INC.
AIKEN
SOUTH CAROLINA

TANK DESCRIPTION:
2.9-MG SALTSTONE
STORAGE TANKS

TANK DIMENSIONS:
150'0" ID x 22'0" SWD

DATE: 11/18/08

DRAWN: MAL

CHECKED: DAB/MLM

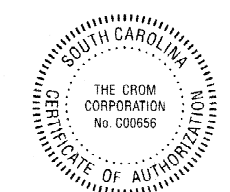
APPROVED: LOB

DESIGNED: KAH

REV.	DESCRIPTION	DATE CK. BY
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**△ CORRECT DETAIL
REFERENCE BUBBLE.**

12/17/08



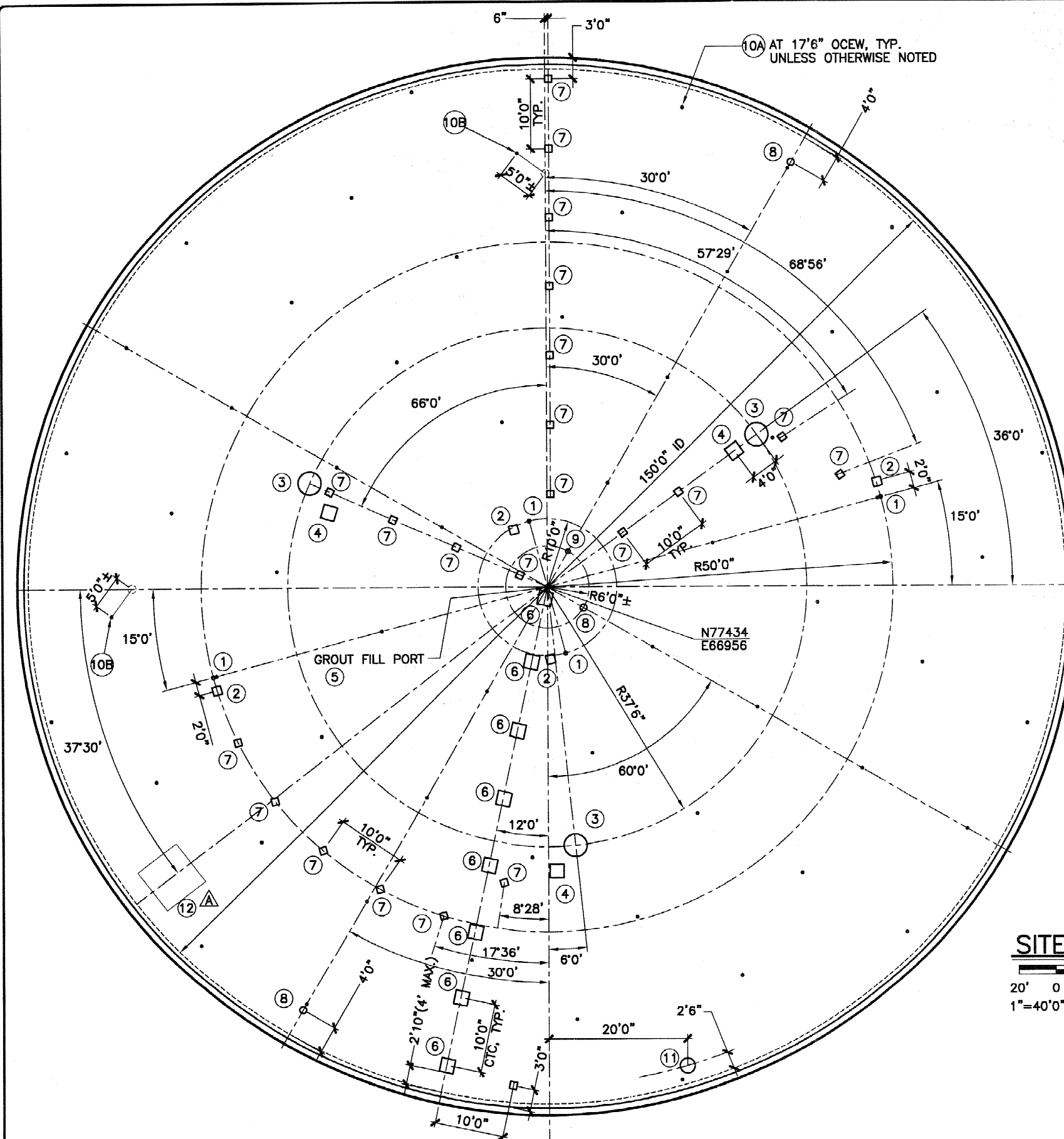
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SCALE: 2' 0" 5' 10'
3/32"=1'0"

FILE NO. 08084SD
REV A

SHEET 3 OF 15

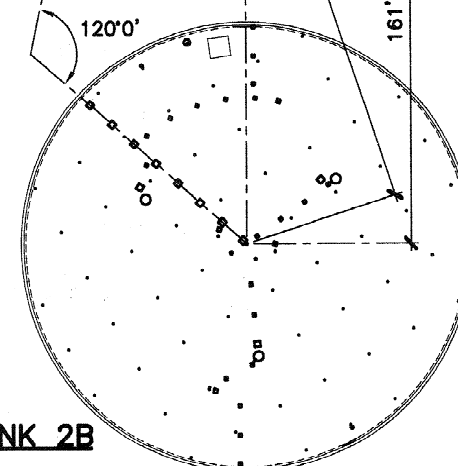
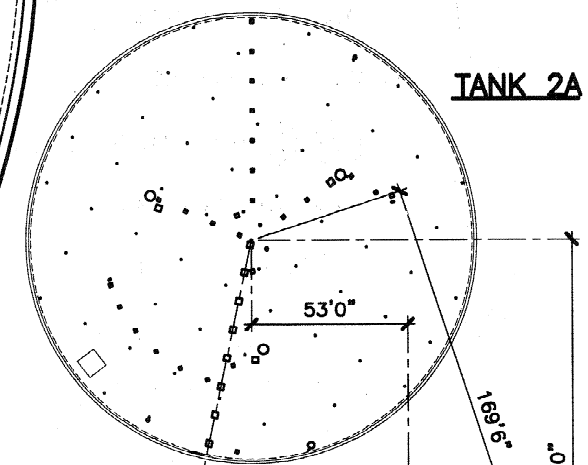
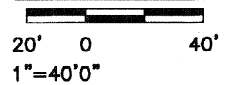


LEGEND

- ① THERMOWELL TREE LOCATION: $\frac{9}{10}$
- ② TW JUNCTION BOX EMBED PLATE: $\frac{11}{12}$
- ③ CAMERA PORT: $\frac{10}{11}$ $\frac{8}{10}$
- ④ CAMERA JUNCTION BOX EMBED: $\frac{11}{12}$
- ⑤ GROUT FILL PORT: $\frac{5}{9}$
- ⑥ GROUT FILL LINE SUPPORT: $\frac{11}{12}$
- ⑦ CONDUIT SUPPORT EMBEDS: $\frac{11}{12}$
- ⑧ VENTILATION PORT: $\frac{7}{10}$
- ⑨ SAMPLE PORT: $\frac{4}{9}$
- 10A INSPECTION PORT: $\frac{6}{9}$
- 10B DRAIN VENT $\frac{6}{9}$
- ⑪ 24" PVC DOWNCOMER: $\frac{17}{15}$
- ⑫ 6' x 6' ACCESS HATCH $\frac{12}{12}$ ▲




SITE PLAN

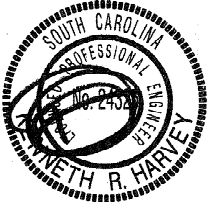


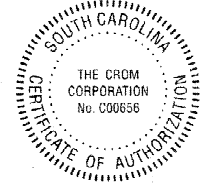
TANK 2A ROOF PLAN

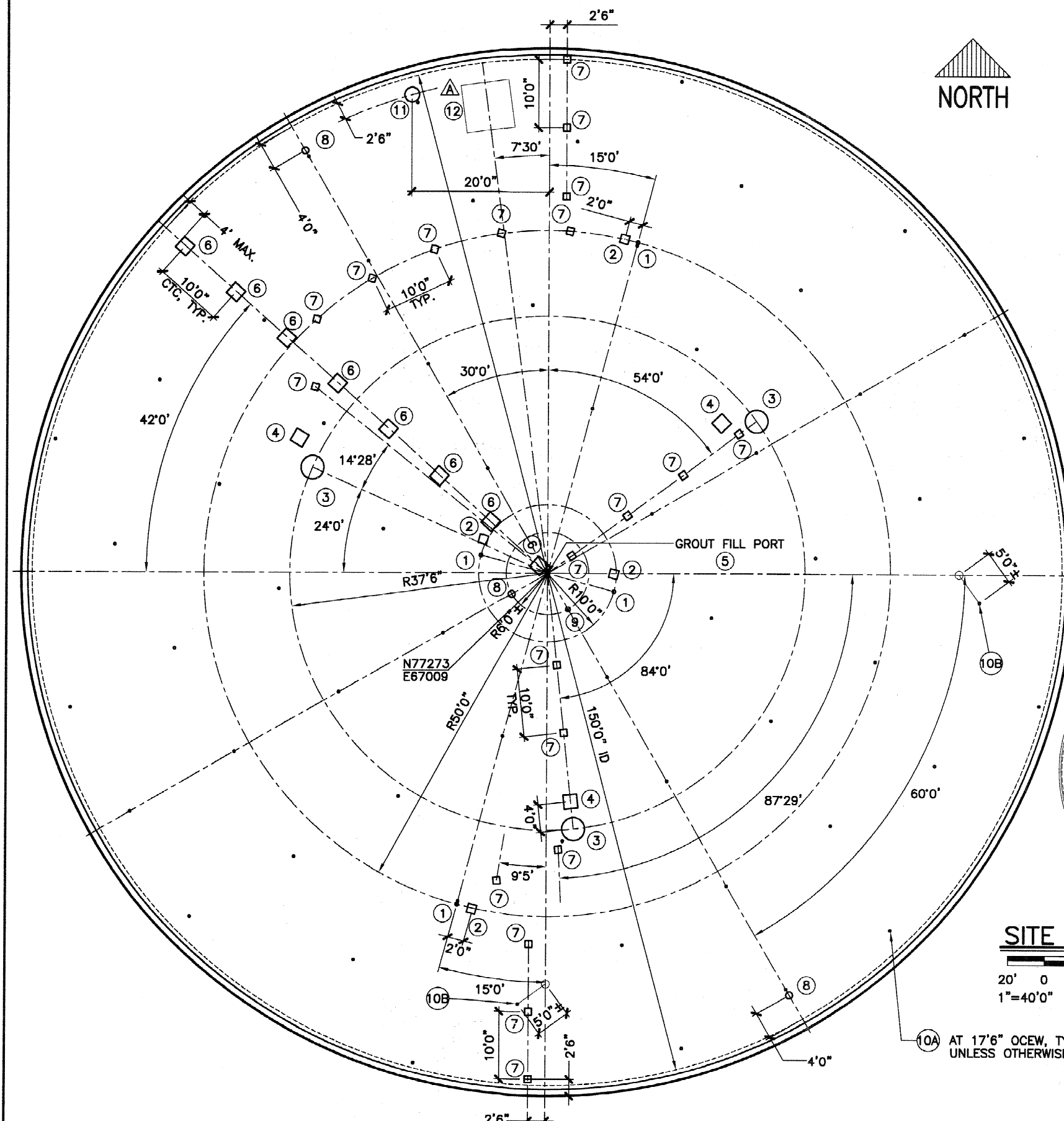


NOTE: FIELD VERIFY ALL
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ENGINEER PRIOR
TO PLACEMENT.





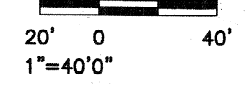
TANK BUILDER:	
THE CROM CORPORATION GAINESVILLE, FLORIDA	
OWNER:	
DEPT OF ENERGY SAVANNAH RIVER SITE AIKEN SOUTH CAROLINA	
CONSULTING ENGINEER:	
BECHTEL SAVANNAH RIVER, INC. AIKEN SOUTH CAROLINA	
TANK DESCRIPTION:	
2.9-MG SALTSTONE STORAGE TANKS	
TANK DIMENSIONS:	
150'0" ID x 22'0" SWD	
DATE: 11/18/08	
DRAWN: MAL	
CHECKED: DAB/MLM	
APPROVED: LOB	
DESIGNED: KRB	
REV.	DESCRIPTION DATE CK BY
▲ ADD HATCH DETAIL TO LEGEND.	
	
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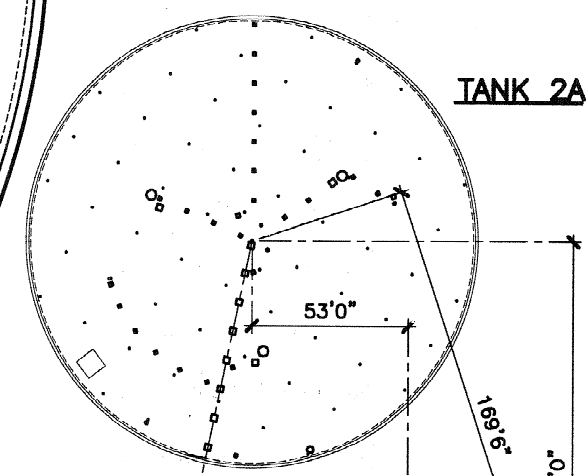
LEGEND

- ① THERMOWELL TREE LOCATION: $\frac{9}{10}$
- ② TW JUNCTION BOX EMBED PLATE: $\frac{11}{12}$
- ③ CAMERA PORT: $\frac{10}{11}$ $\frac{8}{10}$
- ④ CAMERA JUNCTION BOX EMBED: $\frac{11}{12}$
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- ⑨ SAMPLE PORT: $\frac{4}{9}$
- ⑩A INSPECTION PORT: $\frac{6}{9}$
- ⑩B DRAIN PORT $\frac{6}{9}$
- ⑪ 24" PVC DOWNCOMER: $\frac{17}{15}$
- ⑫ 6' x 6' ACCESS HATCH $\frac{12}{12}$ Δ

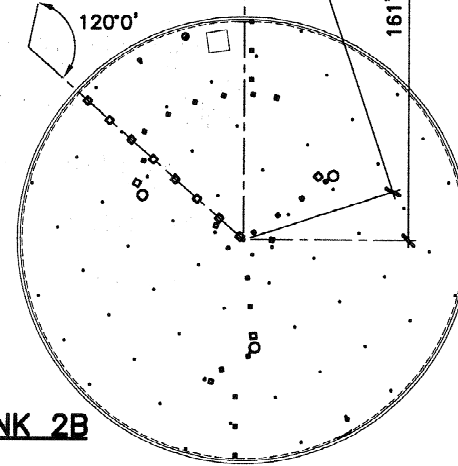
SITE PLAN



⑩A AT 17'6" OCEW, TYP.
UNLESS OTHERWISE NOTED:



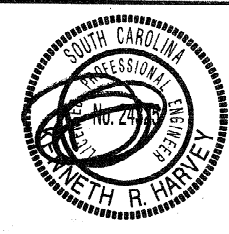
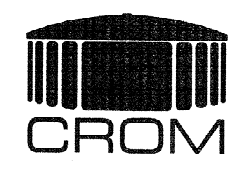
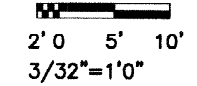
TANK 2A



TANK 2B

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TANK 2B ROOF PLAN



TANK BUILDER:
THE CROM CORPORATION
GAINESVILLE, FLORIDA

OWNER:
DEPT OF ENERGY
SAVANNAH RIVER SITE
AIKEN
SOUTH CAROLINA

CONSULTING ENGINEER:
BECHTEL
SAVANNAH RIVER, INC.
AIKEN
SOUTH CAROLINA

TANK DESCRIPTION:
2.9-MG SALTSTONE
STORAGE TANKS

TANK DIMENSIONS:
150'0" ID x 22'0" SWD

DATE: 11/18/08

DRAWN: MAL

CHECKED: DAB/MLM

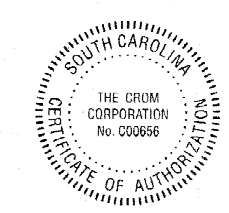
APPROVED: LOB

DESIGNED: KRH

REV.	DESCRIPTION	DATE CHK. BY
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Δ ADDED ACCESS HATCH
TO LEGEND.

12/17/08



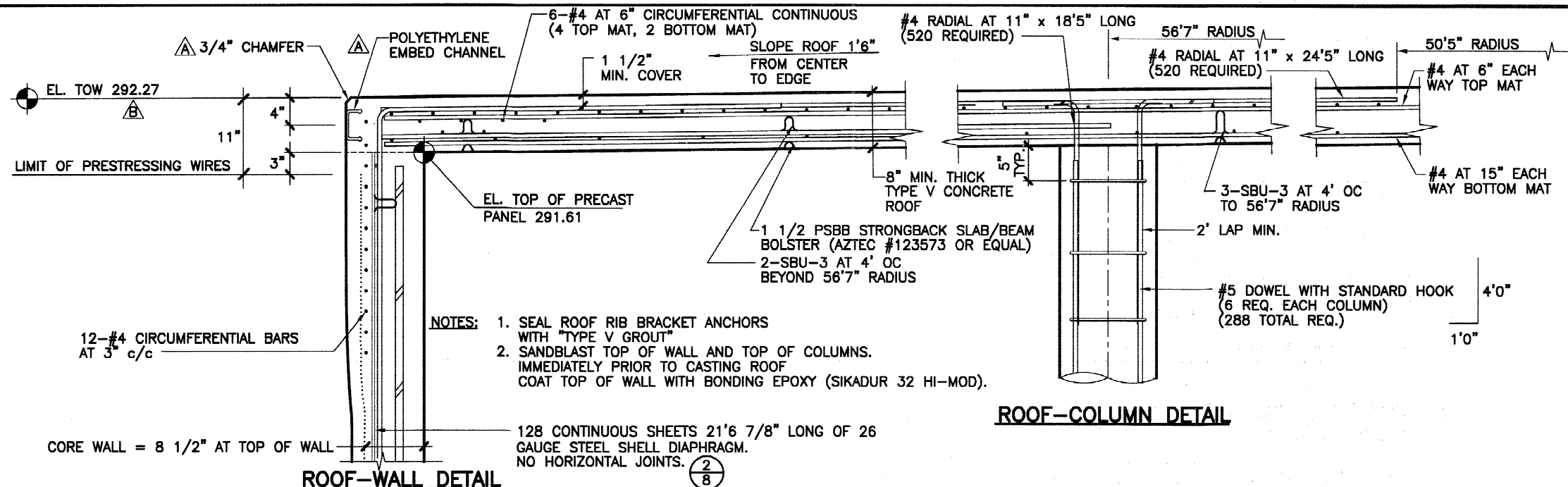
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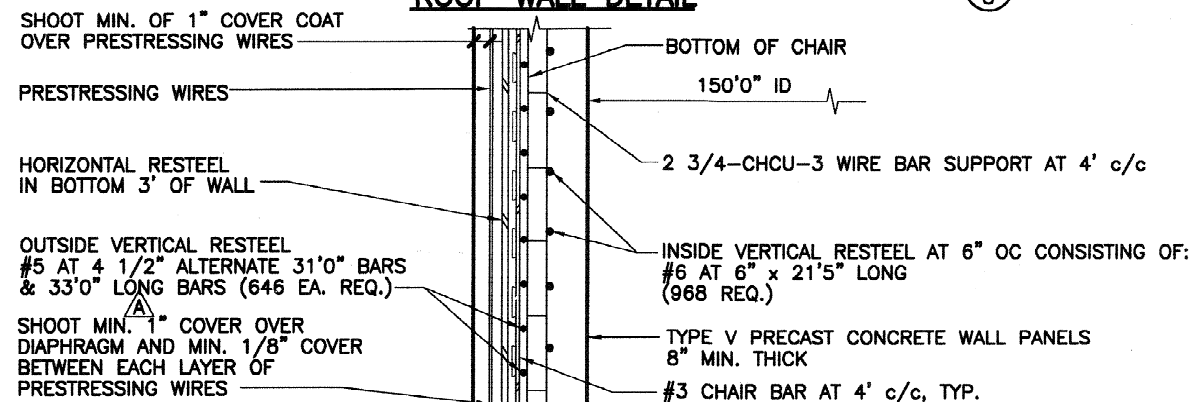
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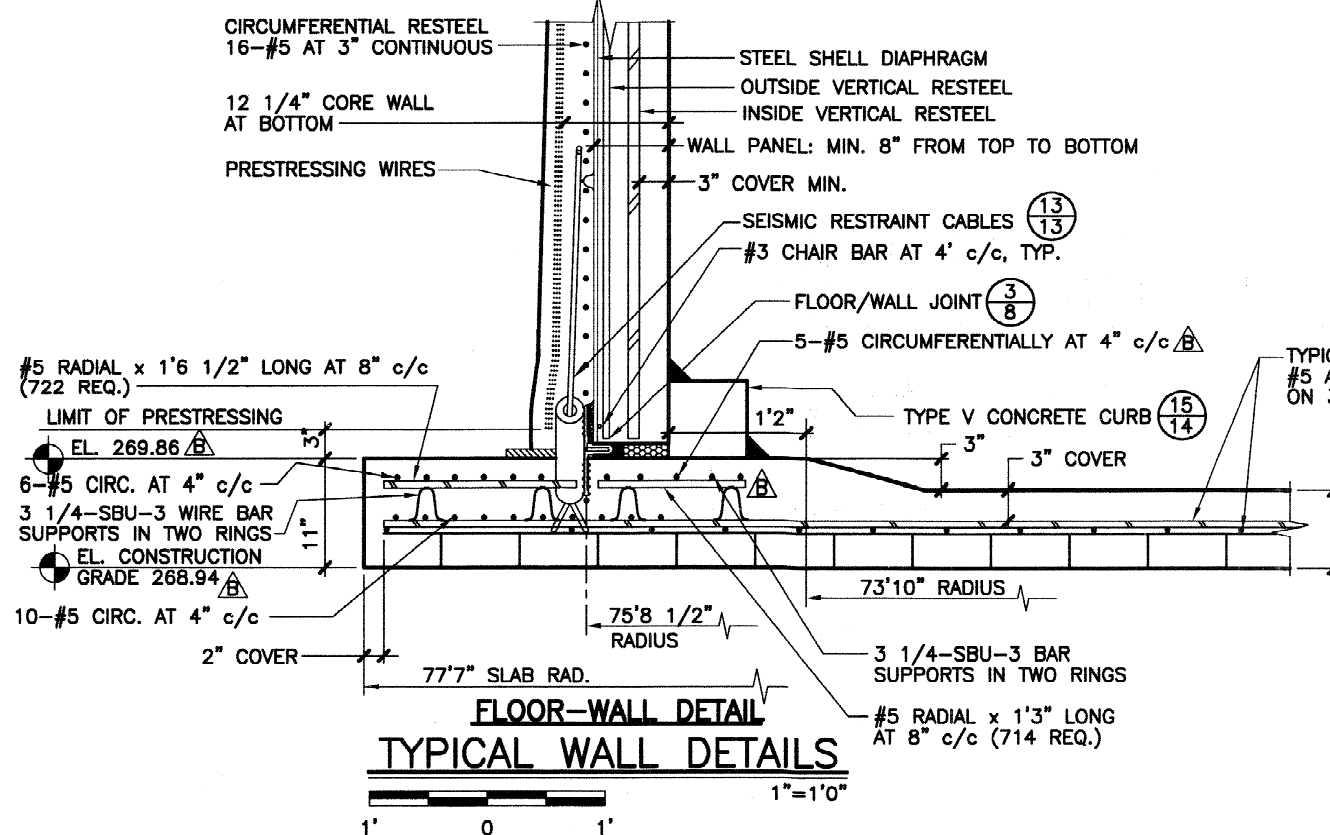
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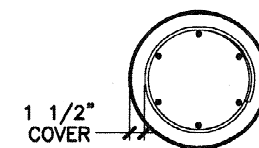
ROOF-COLUMN DETAIL



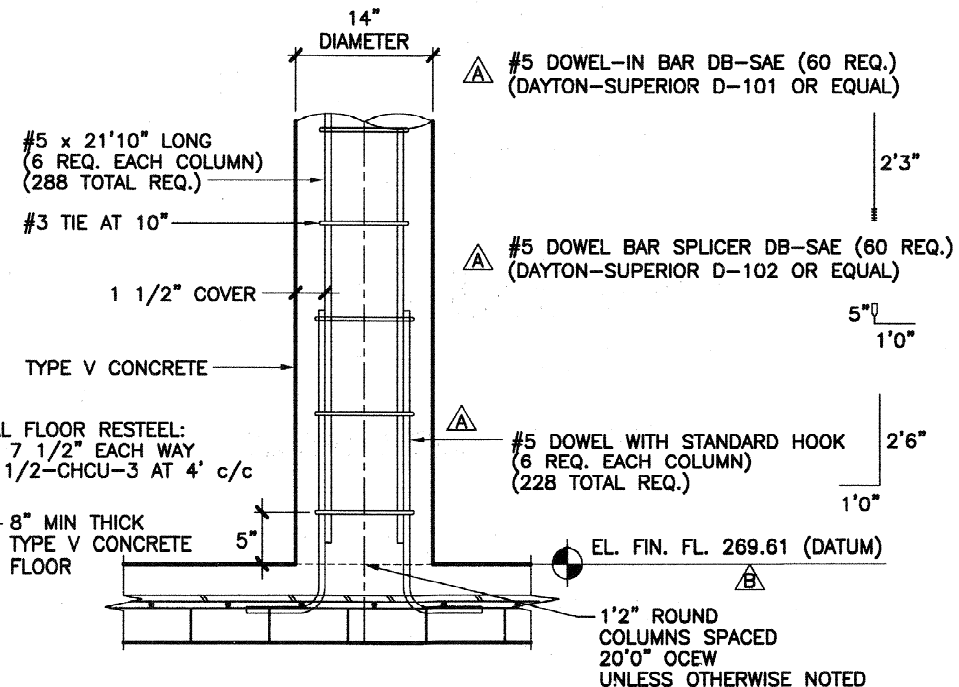
HORIZONTAL WALL SECTION



TYPICAL WALL DETAILS

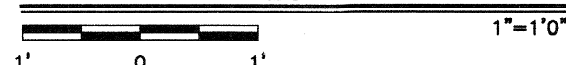


COLUMN SECTION



FLOOR-COLUMN DETAIL

TYPICAL COLUMN SECTION



TANK BUILDER:
THE CROM CORPORATION
GAINESVILLE, FLORIDA

OWNER:
DEPT OF ENERGY
SAVANNAH RIVER SITE
AIKEN
SOUTH CAROLINA

CONSULTING ENGINEER:
BECHTEL
SAVANNAH RIVER, INC.
AIKEN
SOUTH CAROLINA

TANK DESCRIPTION:
2.9-MG SALTSTONE
STORAGE TANKS

TANK DIMENSIONS:
150'0" ID x 22'0" SWD

DATE: 11/18/08

DRAWN: MAL

CHECKED: DAB/MLM

APPROVED: LOB

DESIGNED: KRA

REV.	DESCRIPTION	DATE
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ADDED EMBED PLATE. CORRECTED ARROW. CHANGED COVER TO 1".

12/17/08

CHAMFERED EDGE AT TOW.

12/19/08

ADD DOWEL-IN RECIEVER BARS TO ALLOW ACCESS TO FLOOR DURING PANEL CASTING.

1/15/09

REVISED TANK ELEVATIONS. ADDED FLOOR RESTEEL

3/27/09

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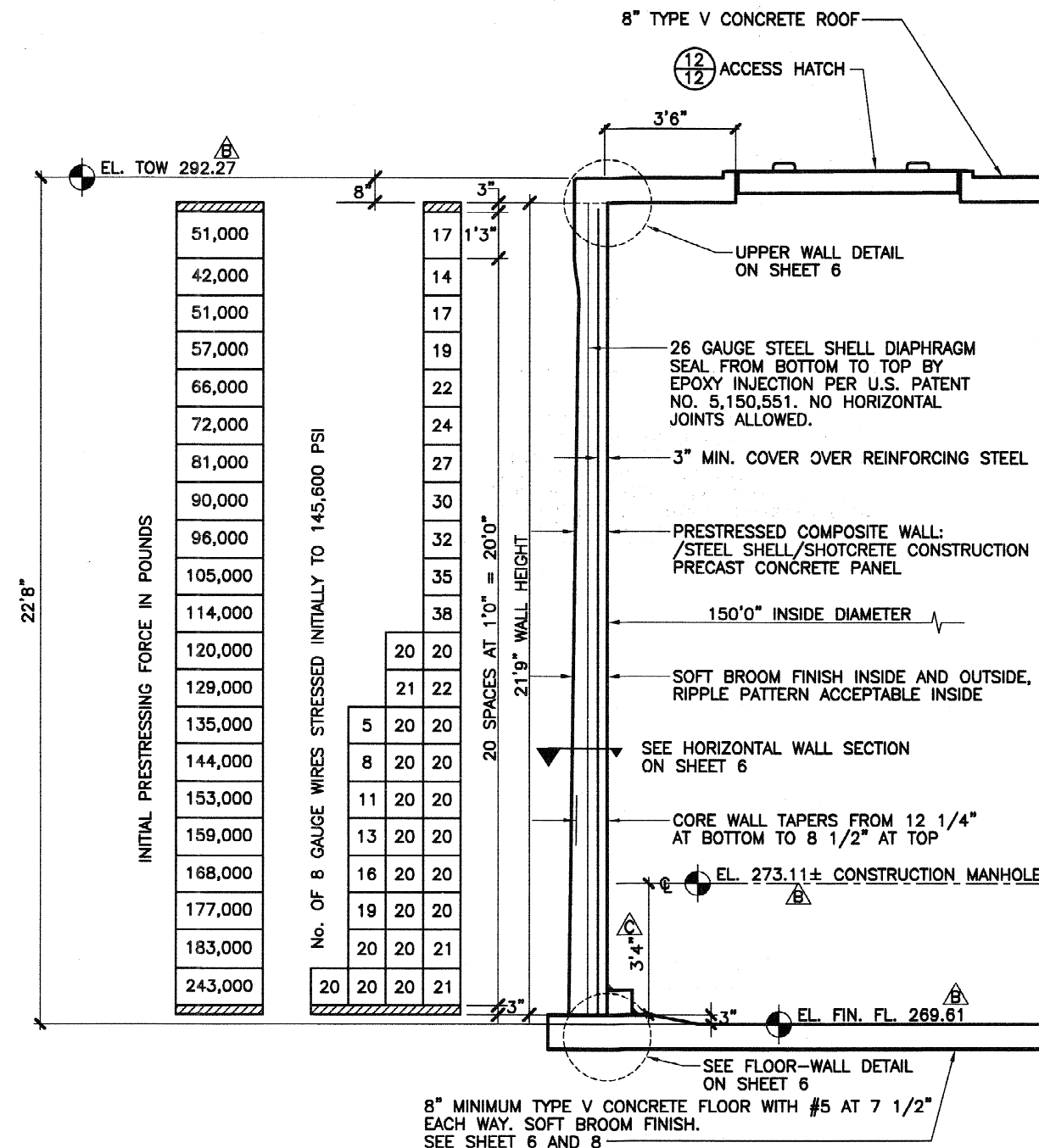
SCALE:
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FILE NO. 08084SD
REV B

SHEET 6 OF 15

NOTES:

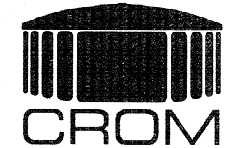
- SHOTCRETE SHALL BE APPLIED BY OR UNDER DIRECT SUPERVISION OF NOZZLEMEN CERTIFIED BY THE AMERICAN CONCRETE INSTITUTE AS OUTLINED IN ACI CERTIFICATION PUBLICATION CP-60.
- TENSION IN PRESTRESSING WIRE SHALL BE MEASURED BY AN ELECTRONIC DIRECT-READING STRESSOMETER ACCURATE TO WITHIN 2%.



PRESTRESSING SCHEDULE

2' 0 1' 2' 3/8"=1'0"

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TANK BUILDER:
THE CROM CORPORATION
GAINESVILLE, FLORIDA

OWNER:
DEPT OF ENERGY
SAVANNAH RIVER SITE
AIKEN
SOUTH CAROLINA

CONSULTING ENGINEER:
BECHTEL
SAVANNAH RIVER, INC.
AIKEN
SOUTH CAROLINA

TANK DESCRIPTION:
2.9-MG SALTSTONE
STORAGE TANKS

TANK DIMENSIONS:
150'0" ID x 22'0" SWD

DATE: 11/18/08

DRAWN: MAL

CHECKED: DAB/MLM

APPROVED: LOB

DESIGNED: KKH

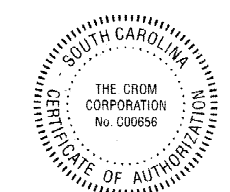
REV.	DESCRIPTION	DATE	CK. BY
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REVISED TANK ELEVATIONS.

3/27/09

DIM. WAS 3'6"

5/5/09



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.

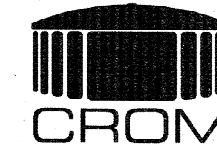
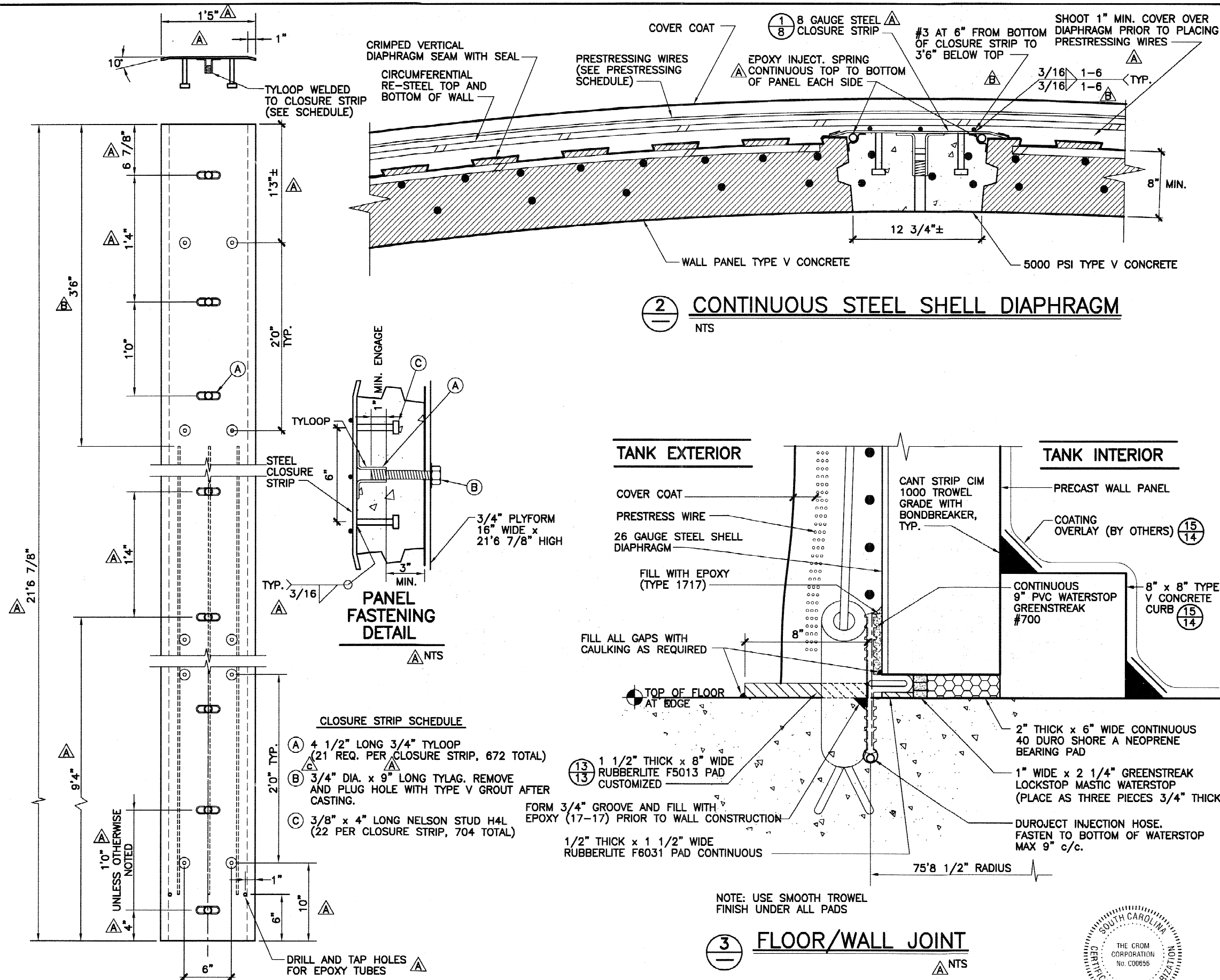
BAR IS ONE INCH ON ORIGINAL DRAWINGS 0 1"

SCALE:

AS NOTED

FILE NO. 08084SD
REV C

SHEET 7 OF 15



TANK BUILDER:
THE CROM CORPORATION
GAINESVILLE, FLORIDA

OWNER:
DEPT OF ENERGY
SAVANNAH RIVER SITE
AIKEN
SOUTH CAROLINA

CONSULTING ENGINEER:
BECHTEL
SAVANNAH RIVER, INC.
AIKEN
SOUTH CAROLINA

TANK DESCRIPTION:
2.9-MG SALTSTONE
STORAGE TANKS

TANK DIMENSIONS:
150'0" ID x 22'0" SWD

DATE: 11/18/08

DRAWN: MAL

CHECKED: DAB/MLM

APPROVED: LOB

DESIGNED: KKH

REV.	DESCRIPTION	DATE OR BY
A	MODIFIED CLOSURE STRIP.	
	MODIFIED TYLAG.	12/17/08
	REMOVED EXTRANEOUS DIMENSION.	12/19/08
	MODIFIED TYLAG LENGTH. ADDED EPOXY TUBE HOLES. SCALE CORRECTED. ADDED TAPED EPOXY INJECT SPRINGS.	1/15/08
B	ADDED #3 BARS TO CLOSURE STRIP (NTS).	3/30/08
C	TYLOOPS REQUIRED.	4/15/08

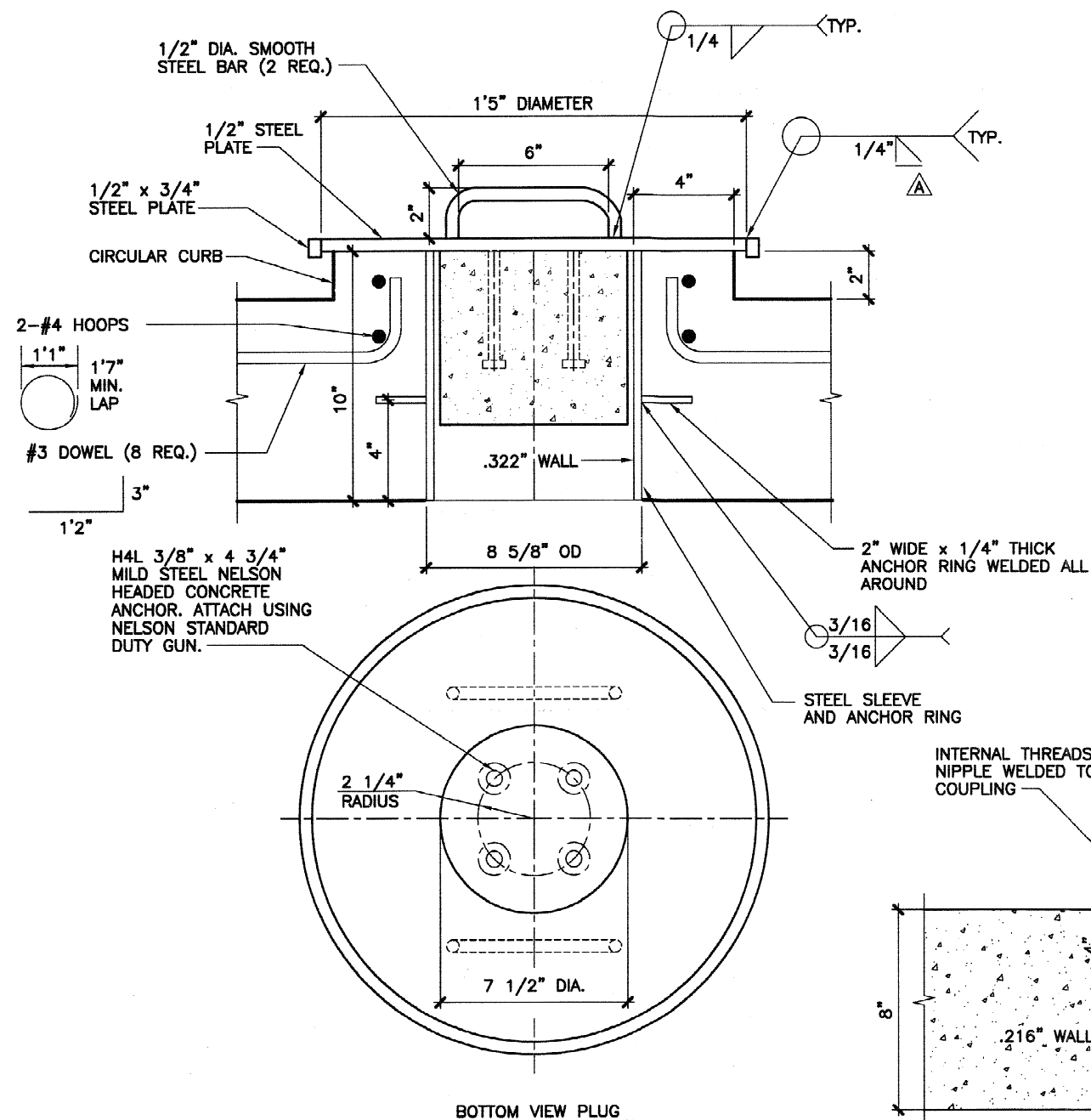
WHERE STANDARD SPECIFICATIONS ARE IN CONFLICT WITH CROM CORPORATION SPECIFICATIONS OR WITH GOOD PRESTRESSING OR SHOTCRETE PRACTICES THE STANDARD SPECIFICATIONS SHALL BE SUBORDINATED. THIS DESIGN AND DRAWING ORIGINATED BY AND THE EXCLUSIVE PROPERTY OF THE CROM CORPORATION.

BAR IS ONE INCH ON ORIGINAL DRAWINGS 0 1"

SCALE:
AS NOTED

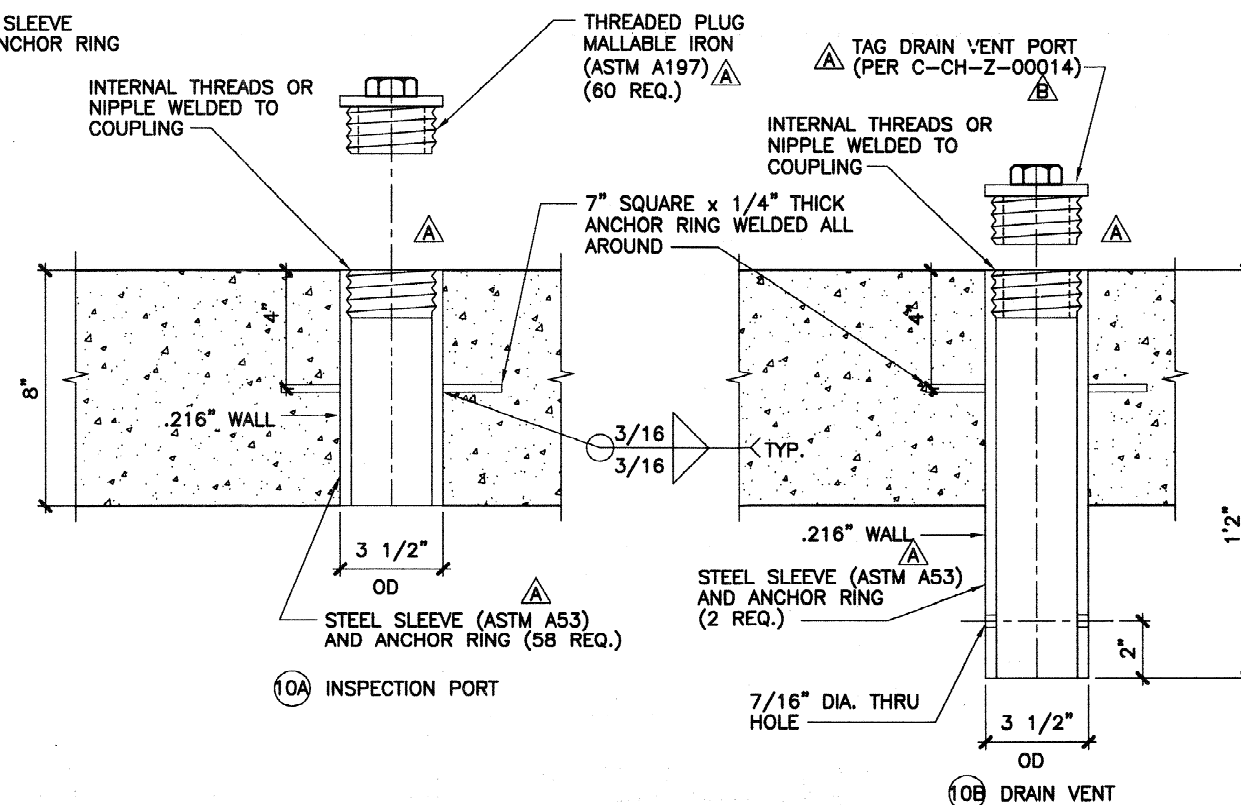
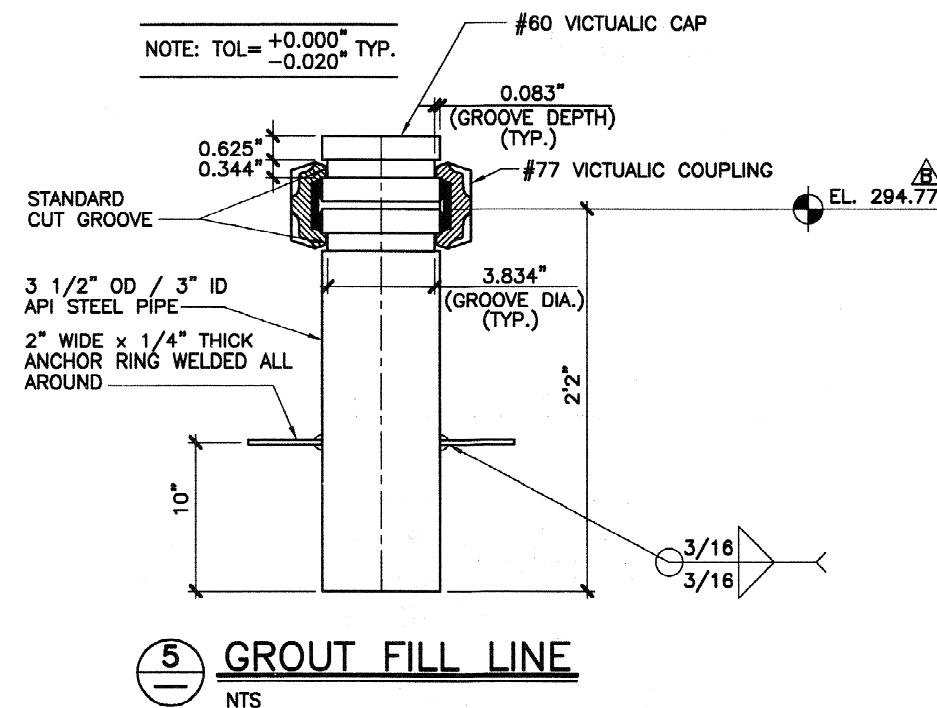
FILE NO. 08084SD
REV C

SHEET 8 OF 15



4 SAMPLE PORT PENETRATION PLUG

0 1'



6 PENETRATION PLUGS

0 1'



TANK BUILDER:
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AIKEN
SOUTH CAROLINA

CONSULTING ENGINEER:
BECHTEL
SAVANNAH RIVER, INC.
AIKEN
SOUTH CAROLINA

TANK DESCRIPTION:
2.9-MG SALTSTONE
STORAGE TANKS

TANK DIMENSIONS:
150'0" ID x 22'0" SWD

DATE: 11/18/08
DRAWN: MAL
CHECKED: DAB/MLM
APPROVED: LOB
DESIGNED: KKH

REV.	DESCRIPTION	DATE CHK. BY
1	MODIFIED PENETRATION SLEEVES. MODIFIED WELD SYMBOL.	12/17/08
2	ADDED PLUG MATERIAL STANDARD. ADDED SLEEVE MATERIAL STANDARD.	1/15/09
3	REVISED VENT PORT ELEVATIONS. REVISED TAG DRAIN VENT PORT.	3/27/09

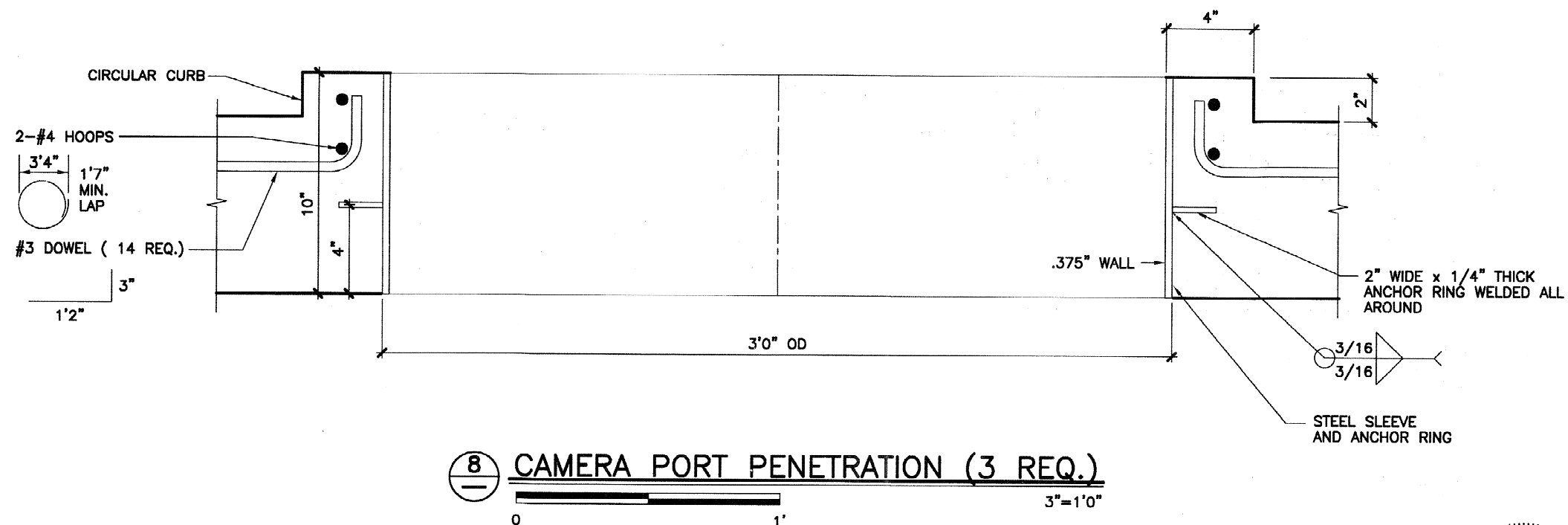
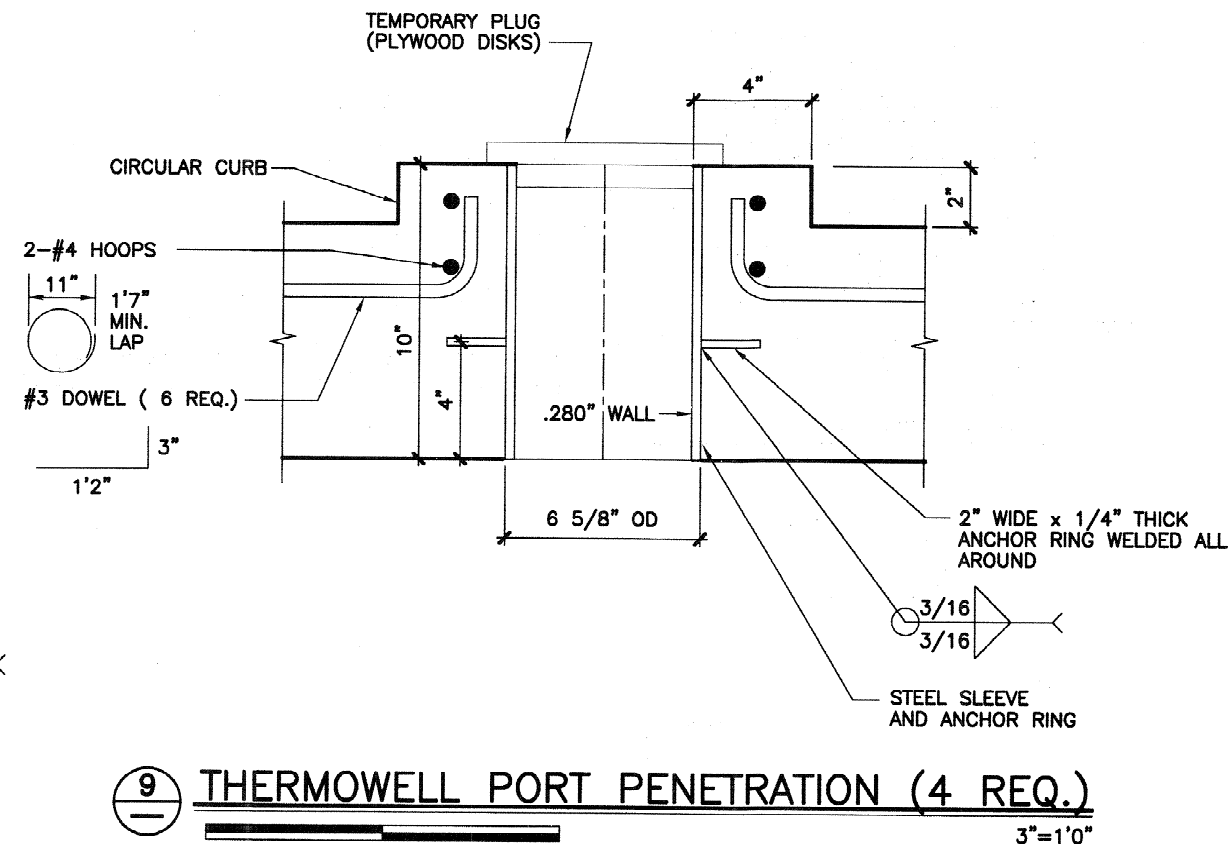
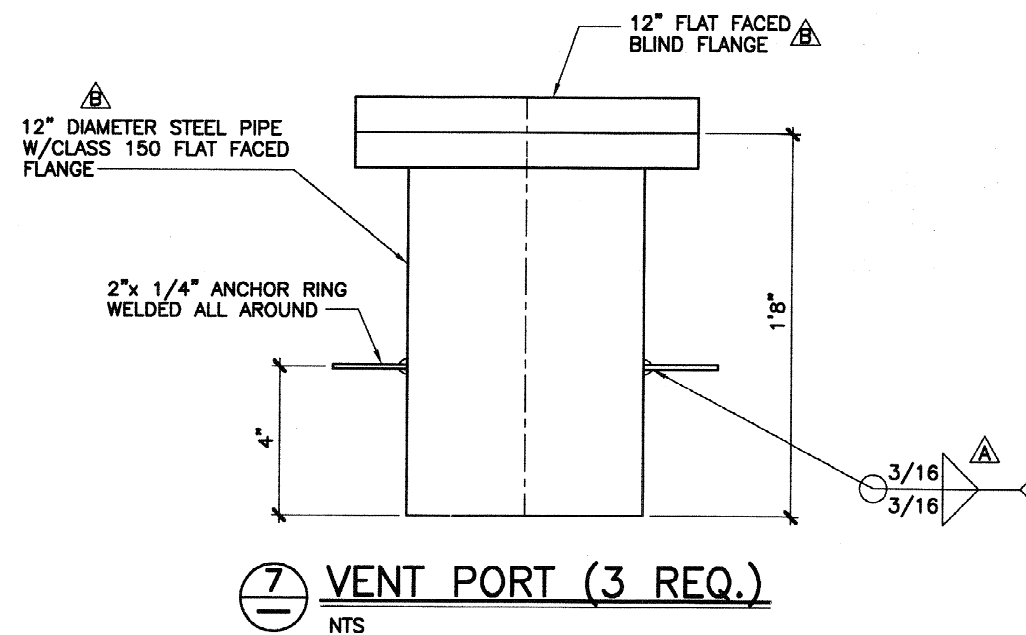
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THIS DESIGN AND DRAWING ORIGINATED BY AND THE EXCLUSIVE PROPERTY OF THE CROM CORPORATION.

BAR IS ONE INCH ON ORIGINAL DRAWINGS 0 1"

SCALE:
AS NOTED

FILE NO. 08084SD
REV B

SHEET 9 OF 15



TANK BUILDER:
THE CROM CORPORATION
GAINESVILLE, FLORIDA

OWNER:
DEPT OF ENERGY
SAVANNAH RIVER SITE
AIKEN
SOUTH CAROLINA

CONSULTING ENGINEER:
BECHTEL
SAVANNAH RIVER, INC.
AIKEN
SOUTH CAROLINA

TANK DESCRIPTION:
2.9-MG SALTSTONE
STORAGE TANKS

TANK DIMENSIONS:
150'0" ID x 22'0" SWD

DATE: 11/18/08

DRAWN: MAL

CHECKED: DAB/MLM

APPROVED: LOB

DESIGNED: KKH

REV.	DESCRIPTION	DATE CHK. BY
1	MODIFIED WELD SYMBOL.	12/17/08
2	MODIFIED FLANGE CALLOUTS	4/9/09

12/17/08

4/9/09

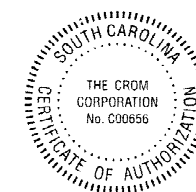
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BAR IS ONE INCH ON ORIGINAL
DRAWINGS 0 1"

SCALE:
AS NOTED

FILE NO. 08084SD
REV B

SHEET 10 OF 15





TANK BUILDER:
THE CROM CORPORATION
GAINESVILLE, FLORIDA

OWNER:
DEPT OF ENERGY
SAVANNAH RIVER SITE
AIKEN
SOUTH CAROLINA

CONSULTING ENGINEER:
BECHTEL
SAVANNAH RIVER, INC.
AIKEN
SOUTH CAROLINA

TANK DESCRIPTION:
2.9-MG SALTSTONE
STORAGE TANKS

TANK DIMENSIONS:
150'0" ID x 22'0" SWD

DATE: 11/18/08

DRAWN: MAL

CHECKED: DAB/MLM

APPROVED: LOB

DESIGNED: KKH

REV.	DESCRIPTION	DATE CHK. BY
------	-------------	-----------------

1	MODIFIED WELD SYMBOL. ROTATED LIFTING EYES 2" AT 2 LOCATIONS.	
---	---	--

12/17/08

2	ADDED WELD SYMBOL. ADDED DIMENSION.	
---	--	--

1/15/09

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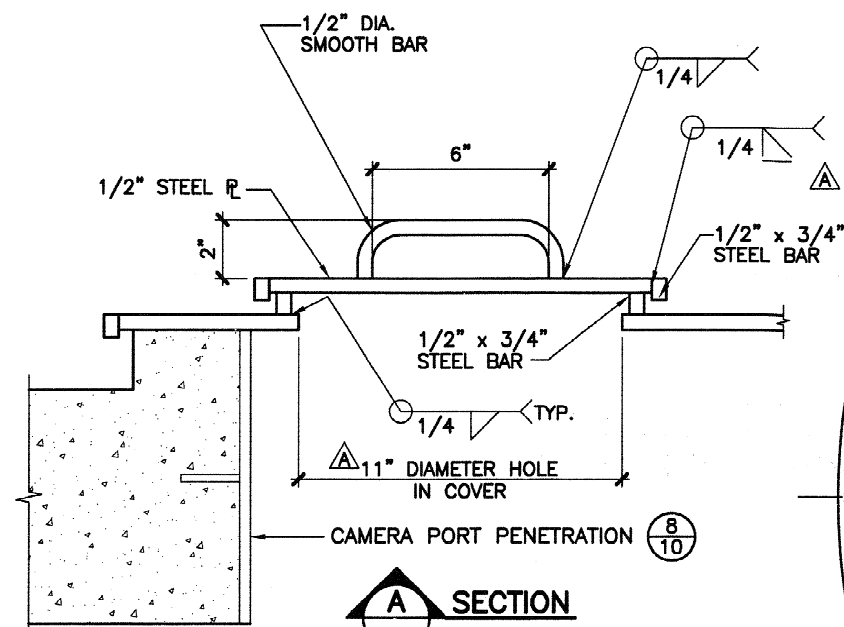
BAR IS ONE INCH ON ORIGINAL DRAWINGS 0 1"

SCALE:

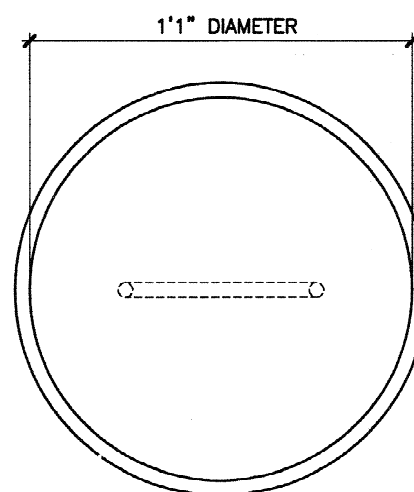
AS NOTED

FILE NO. 08084SD
REV A

SHEET 11 OF 15

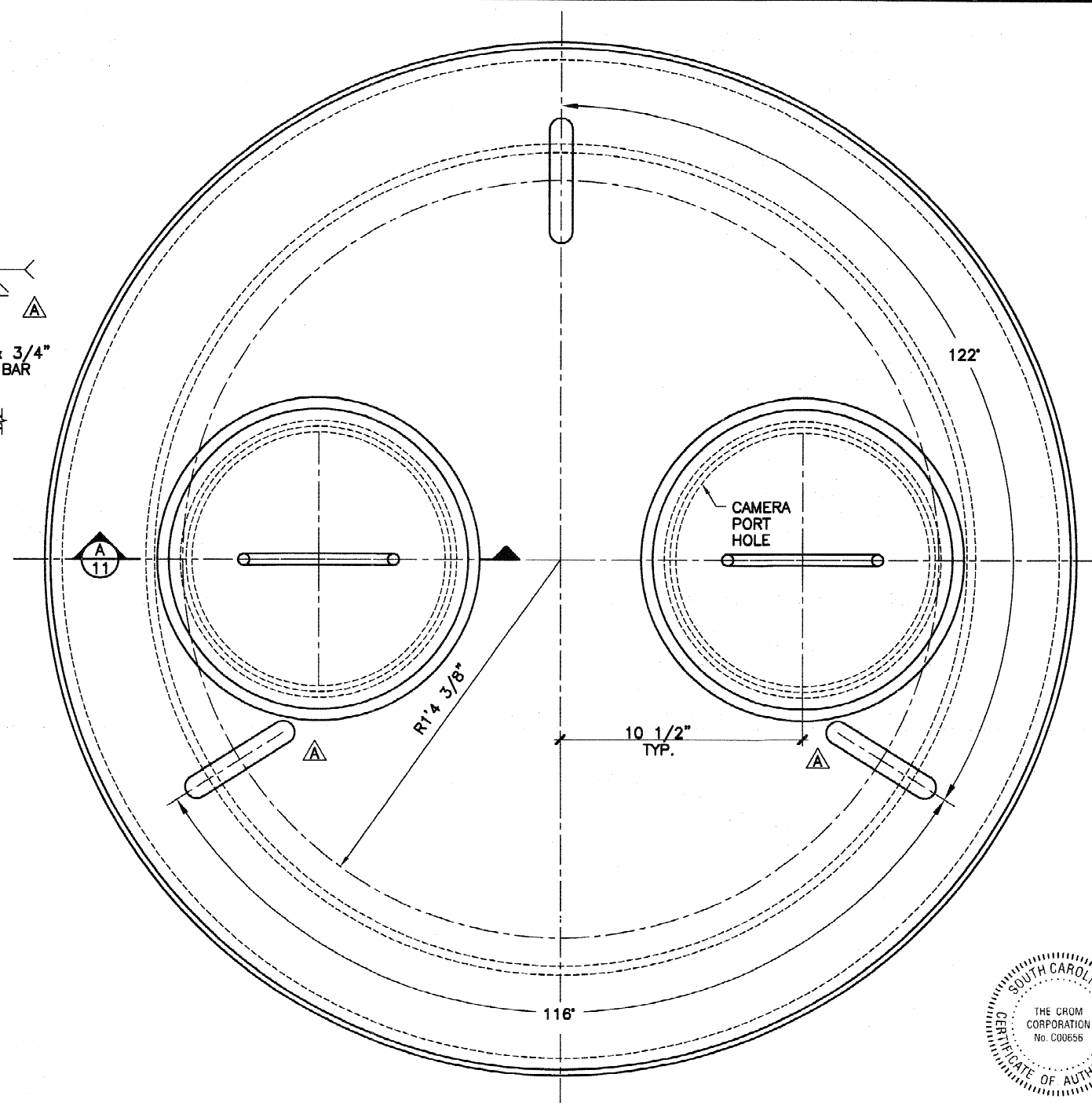


SECTION A

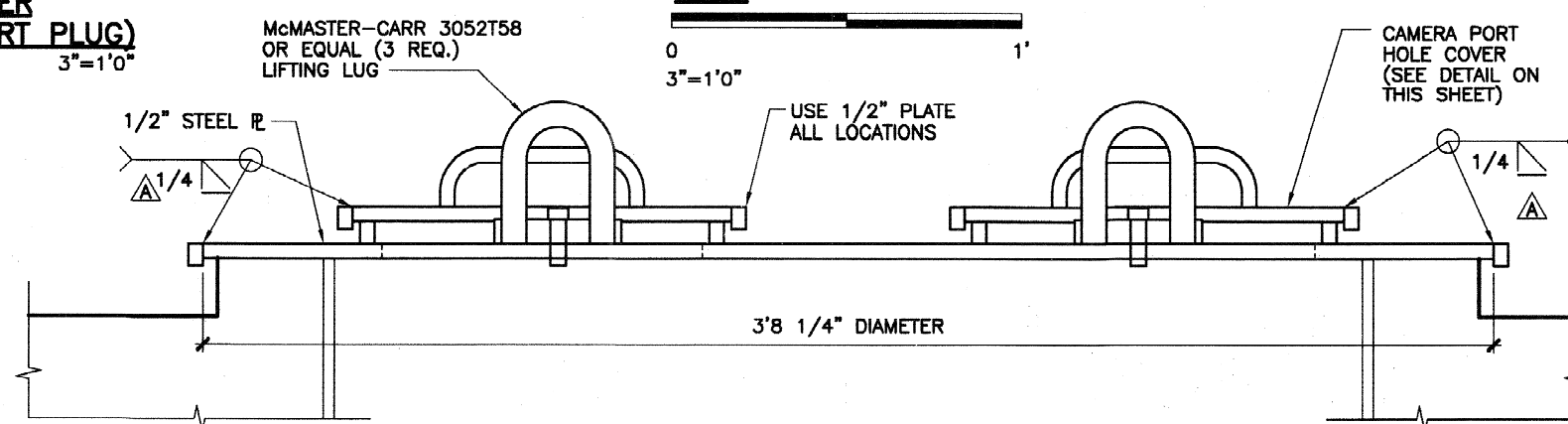
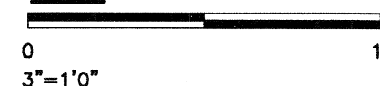


BOTTOM

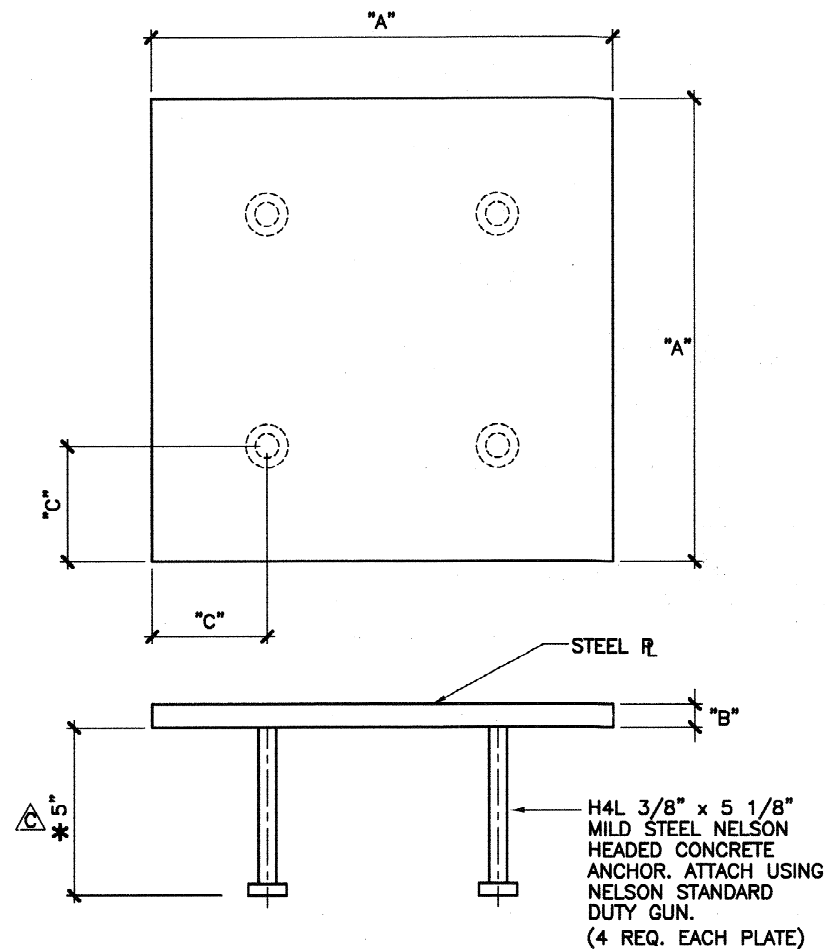
CAMERA PORT HOLE COVER
(2 REQ. FOR EACH CAMERA PORT PLUG)
3"=1'0"



PLAN



10 CAMERA PORT PLUG (3 REQ.)

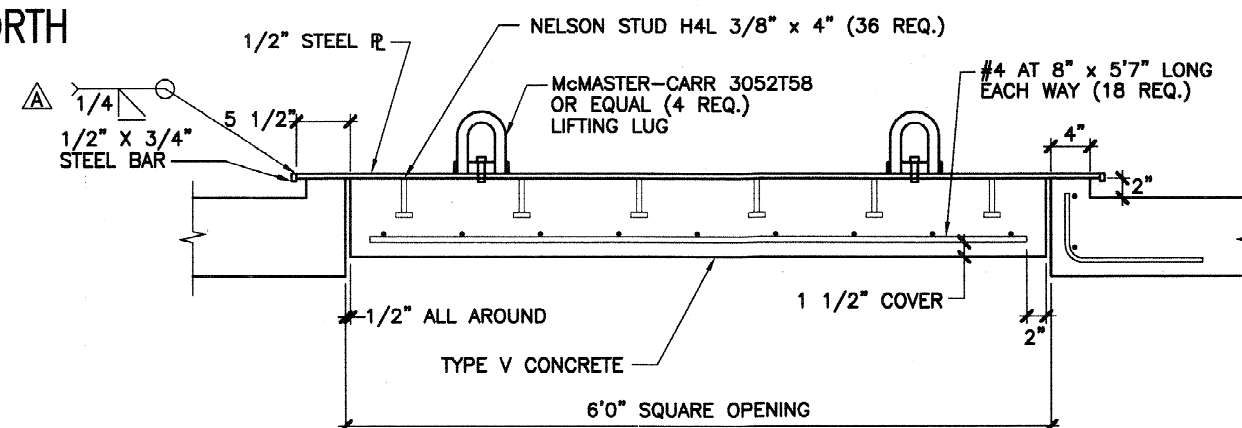


ITEM #	"A" INCHES	"B" INCHES	"C" INCHES	TANK 2A NO. REQ.	TANK 2B NO. REQ.
THERMOWELL (FLOOR)	12	1/2	3	4	4
THERMOWELL JUNC. BOX	15	1/2	3 3/4	4	4
CAMERA JUNC. BOX	24	1/2	6	3	3
GROUT FILL SUPPORT PLATES	24	3/4	6	8	8
CONDUIT SUPPORT EMBEDS	12	1/2	3	38	36

* FLOOR PLATE ANCHORS 6" LONG



11 FLAT ROOF/FLOOR EMBED PLATES



12 HATCH COVER NTS



TANK BUILDER:
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SOUTH CAROLINA

CONSULTING ENGINEER:
BECHTEL
SAVANNAH RIVER, INC.
AIKEN
SOUTH CAROLINA

TANK DESCRIPTION:
2.9-MG SALTSTONE
STORAGE TANKS

TANK DIMENSIONS:
150'0" ID x 22'0" SWD

DATE: 11/18/08

DRAWN: MAL

CHECKED: DAB/MLM

APPROVED: LOB

DESIGNED: KLT

REV. DESCRIPTION DATE CK. BY

MODIFIED WELD SYMBOL.

12/17/08

ADDED NOTE, REVISED DIMENSION
5/5/09

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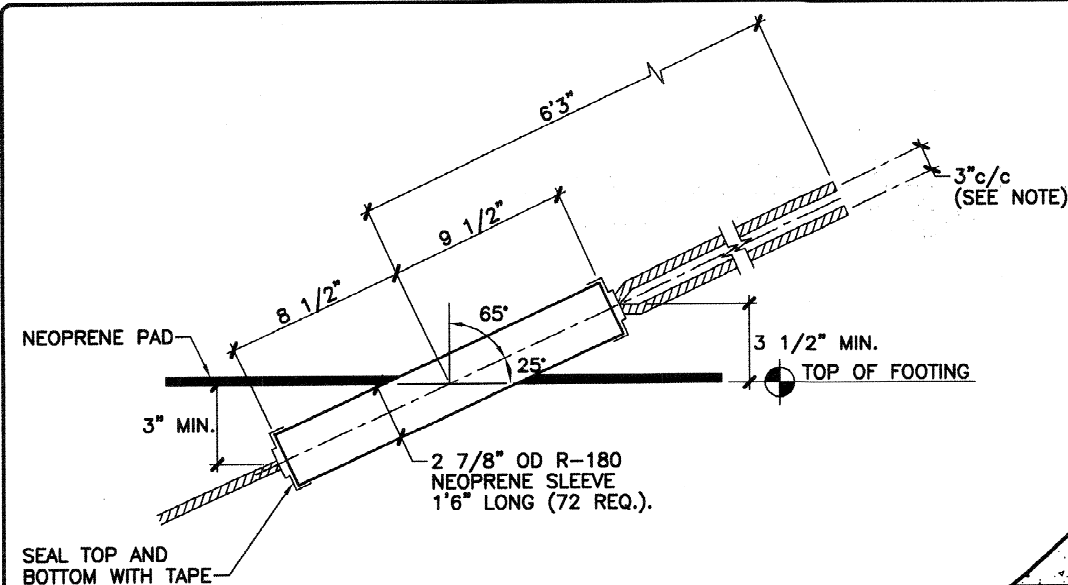
BAR IS ONE INCH ON ORIGINAL DRAWINGS 0 1"

SCALE:

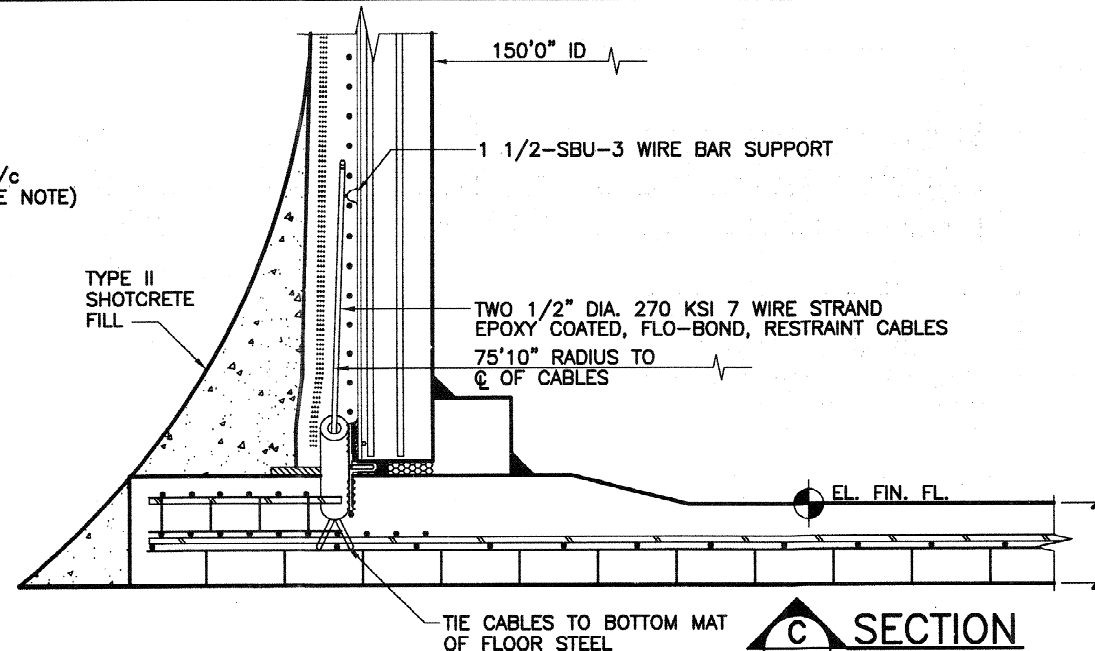
AS NOTED

FILE NO. 08084SD
REV C

SHEET 12 OF 15

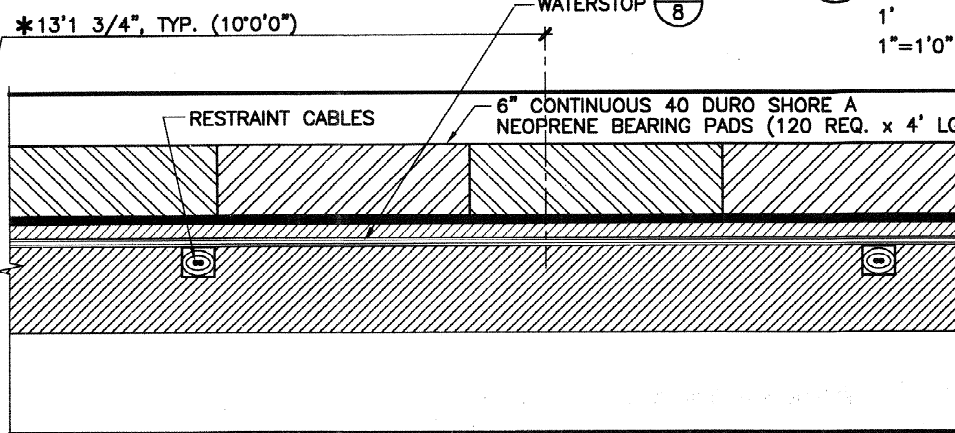
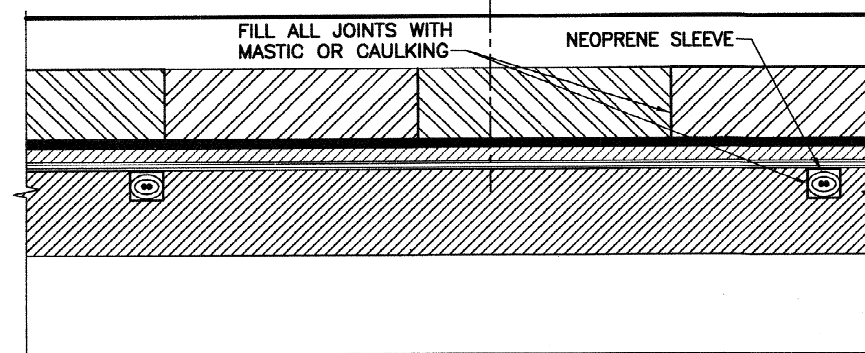


R-180 NEOPRENE SLEEVE
NTS



SECTION C
1" = 1'0"
PADS (3/8)

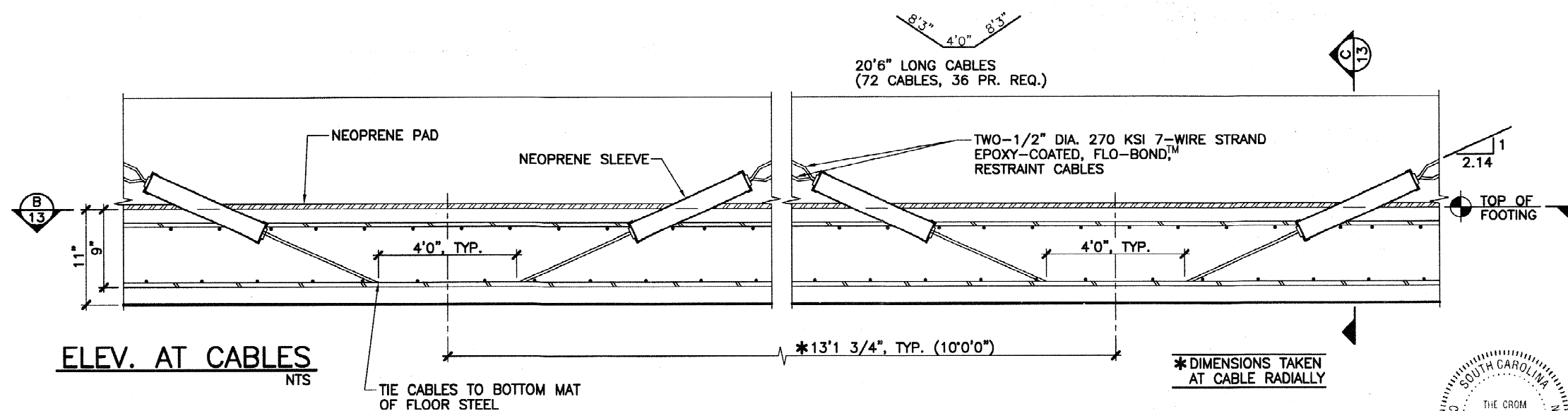
INSIDE TANK



OUTSIDE TANK

NOTE: SPREAD CABLES 3" c/c ALONG FULL LENGTH IN WALL & FOOTING

SECTION B
NTS



ELEV. AT CABLES
NTS

13 SEISMIC RESTRAINT CABLES



TANK BUILDER:
THE CROM CORPORATION
GAINESVILLE, FLORIDA

OWNER:
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SAVANNAH RIVER SITE
AIKEN
SOUTH CAROLINA

CONSULTING ENGINEER:
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AIKEN
SOUTH CAROLINA

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150'0" ID x 22'0" SWD

DATE: 11/18/08

DRAWN: MAL

CHECKED: DAB/MLM

APPROVED: LOB

DESIGNED: KKH

REV.	DESCRIPTION	DATE	CHK. BY
1	CORRECTED NOTE.	12/17/08	

12/17/08

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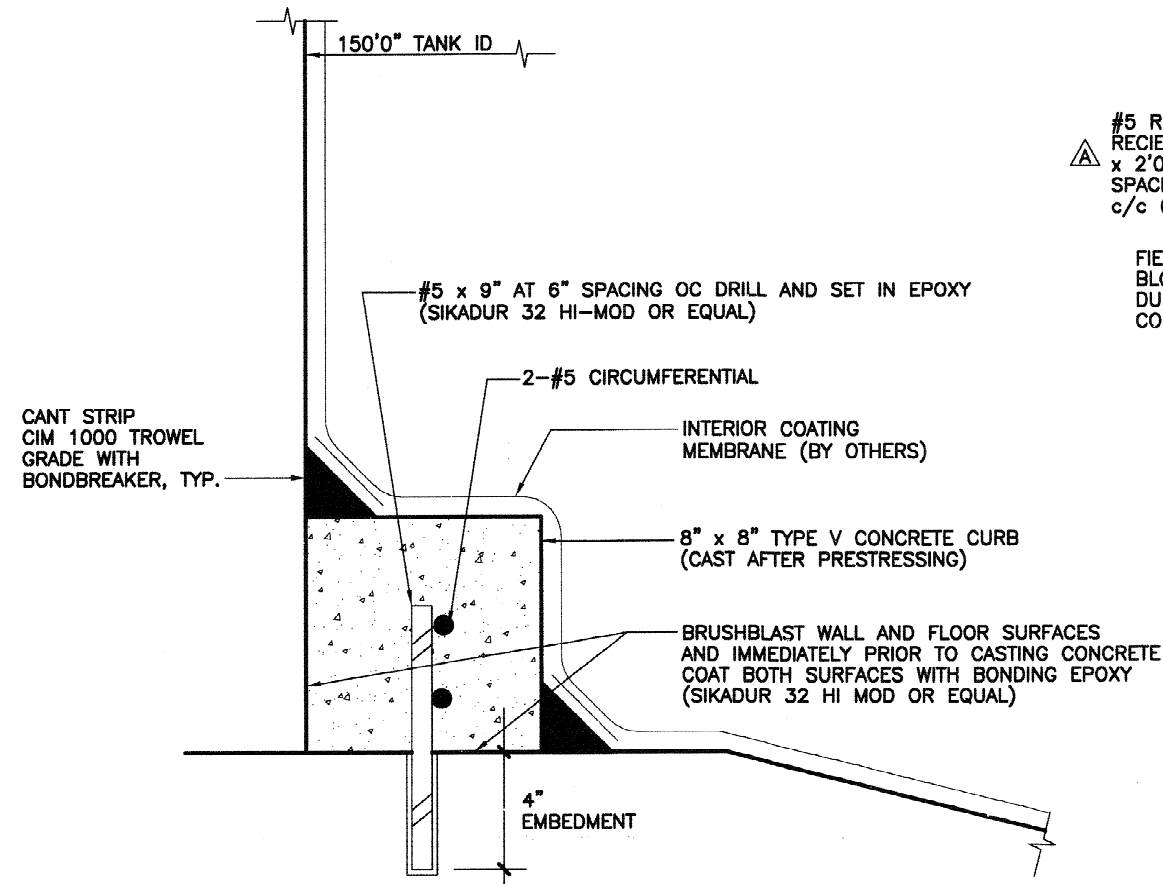
BAR IS ONE INCH ON ORIGINAL DRAWINGS 0 1"

SCALE:

AS NOTED

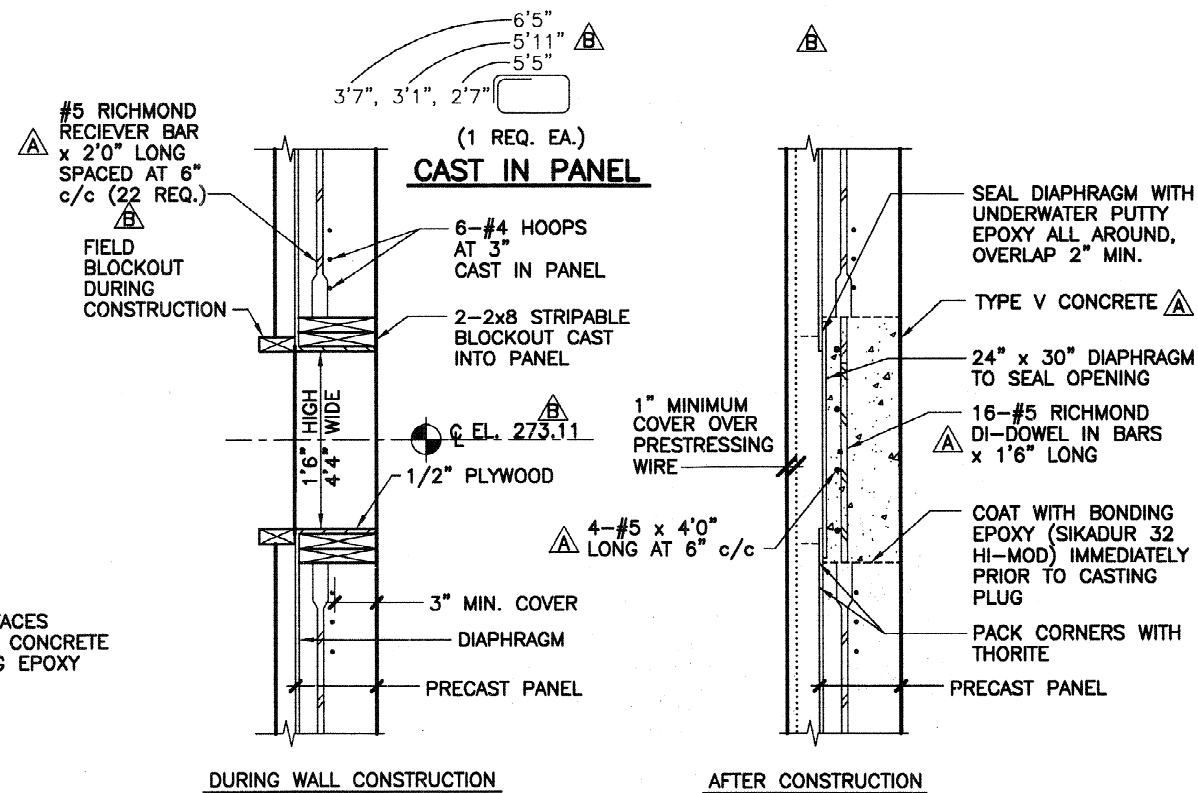
FILE NO. 08084SD
REV A

SHEET 13 OF 15



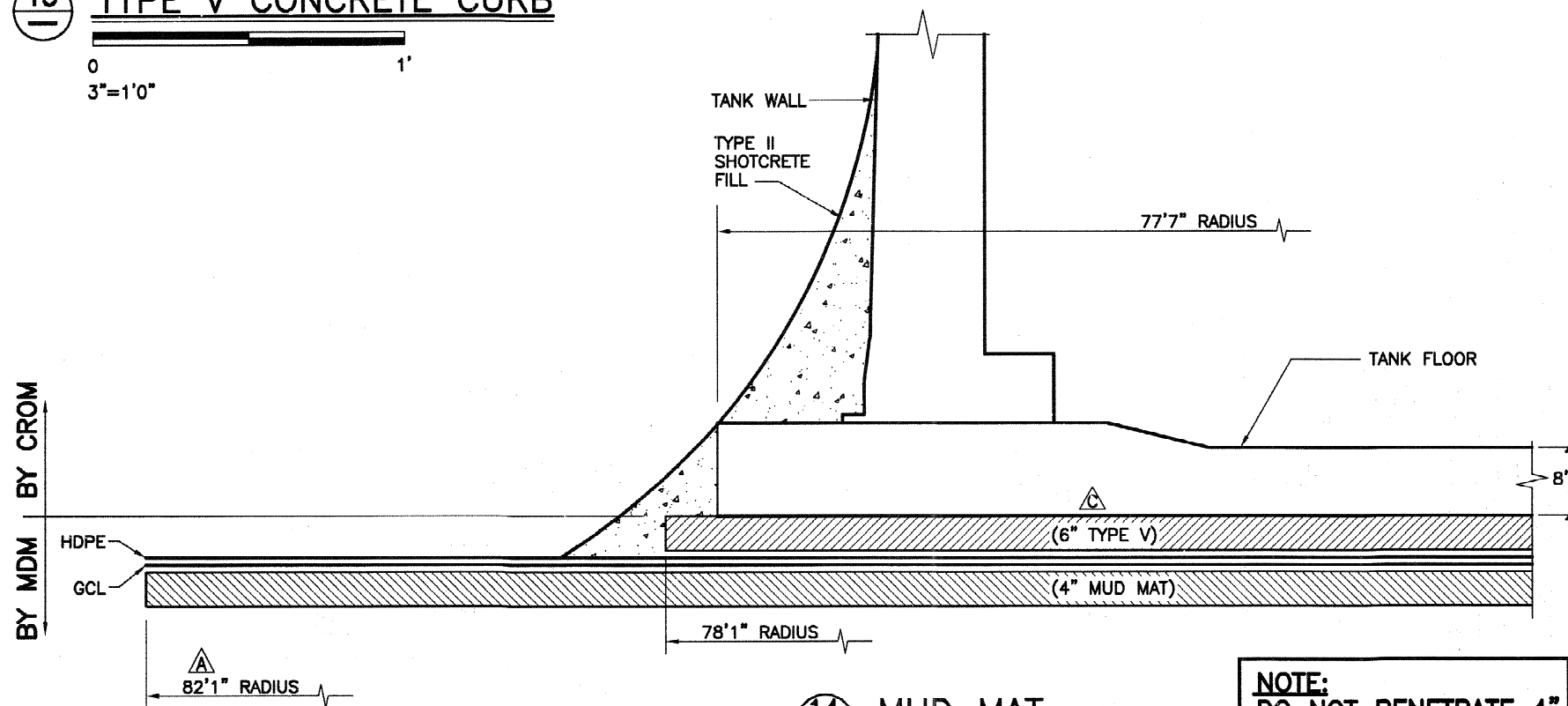
15 TYPE V CONCRETE CURB

0 1'
3"=1'0"



16 CONSTRUCTION MANHOLE

NTS



14 MUD MAT

1' 0 1'
1"=1'0"

NOTE:
DO NOT PENETRATE 4"
THICK TOP MUD MAT



TANK BUILDER:
THE CROM CORPORATION
GAINESVILLE, FLORIDA

OWNER:
DEPT OF ENERGY
SAVANNAH RIVER SITE
AIKEN
SOUTH CAROLINA

CONSULTING ENGINEER:
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SOUTH CAROLINA

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STORAGE TANKS

TANK DIMENSIONS:
150'0" ID x 22'0" SWD

DATE: 11/18/08
DRAWN: MAL
CHECKED: DAB/MLM
APPROVED: LOB
DESIGNED: KRY

REV.	DESCRIPTION	DATE CHK. BY
Δ	REVISED MANHOLE. REVISED RADIUS.	
Δ	12/17/08 REVISED TANK ELEVATIONS. MODIFIED CONSTRUCTION MANHOLE RESTEEL.	
Δ	3/27/09 DIM. WAS 4"	
	5/5/09	

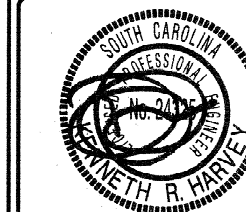
WHERE STANDARD SPECIFICATIONS ARE
IN CONFLICT WITH CROM CORPORATION
SPECIFICATIONS OR WITH GOOD PRE-
STRESSING OR SHOTCRETE PRACTICES
THE STANDARD SPECIFICATIONS SHALL
BE SUBORDINATED.
THIS DESIGN AND DRAWING ORIGINATED
BY AND THE EXCLUSIVE PROPERTY OF
THE CROM CORPORATION.

BAR IS ONE INCH ON ORIGINAL
DRAWINGS 0 1"

SCALE:
AS NOTED

FILE NO. 08084SD
REV C

SHEET 14 OF 15



OWNER:
DEPT OF ENERGY
SAVANNAH RIVER SITE
AIKEN
SOUTH CAROLINA

TANK DESCRIPTION:
2.9-MG SALTSTONE
STORAGE TANKS

TANK DIMENSIONS:
150'0" ID x 22'0" SWD

DATE: 11/18/08

DRAWN: MAL

CHECKED: **DAB/MLM**

APPROVED: LOB

DESIGNED: *KRM*

REV.	DESCRIPTION	DATE CHK F
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△ ADDED NOTE.
REVISED WELD SYMBOL.

12/17/08

△ REVISED WELD TYPE.

12/17/08

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BAR IS ONE INCH ON ORIGINAL
DRAWINGS. 0 [REDACTED] 1

SCALE:

NTS

FILE NO. 08084SD
REV A

SHEET 15 OF 15



NOTE:

SEE DWG C-CH-Z-00014 DETAIL 3 FOR 24"
DIAMETER DOWNCOMER SUPPORT H-1 WALL
MOUNTING PLATES

