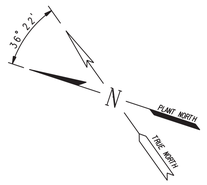
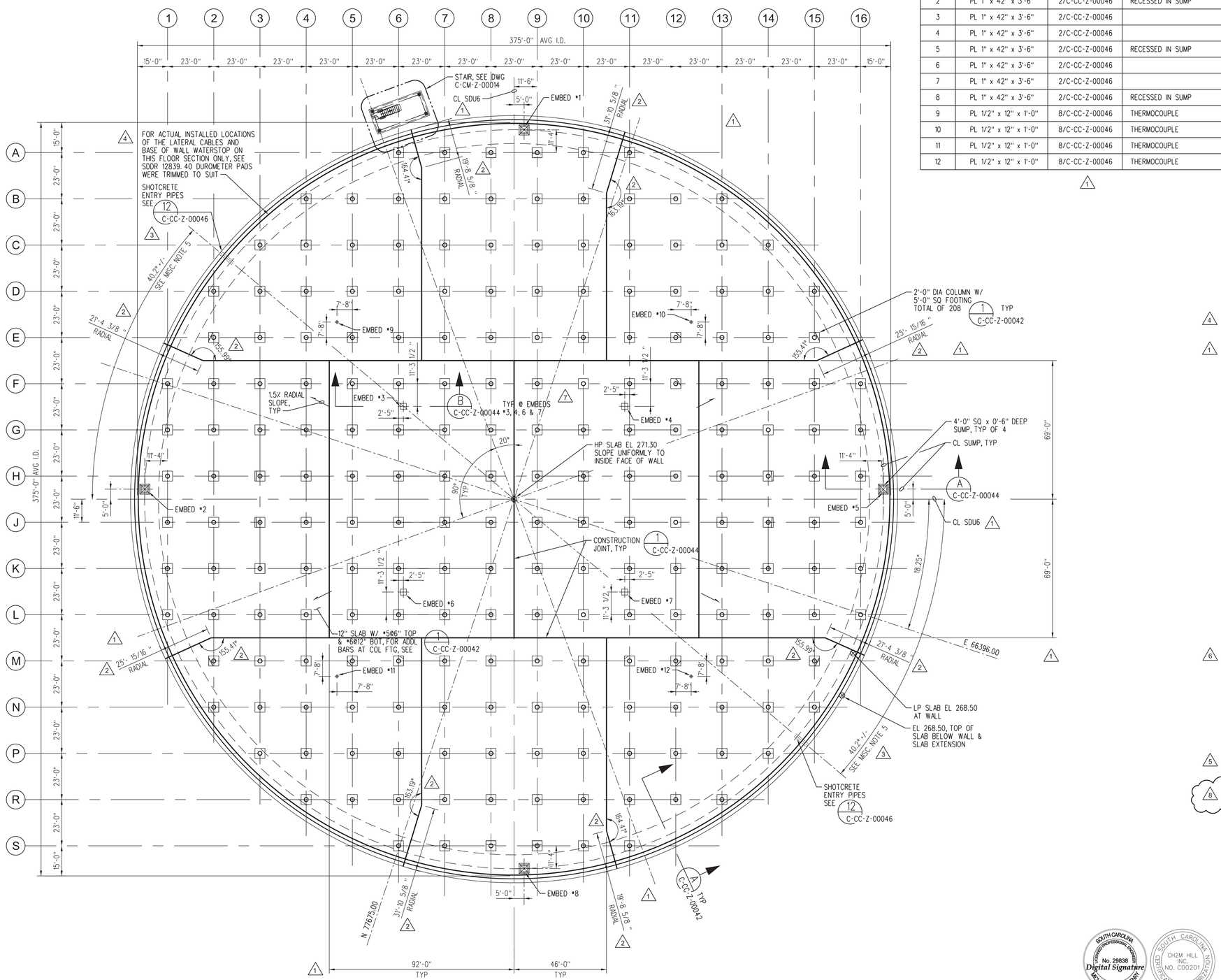
SHT DRAWING NO.
N/A

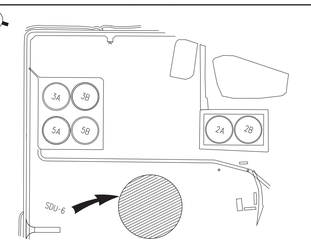




FOUNDATION PLAN

TANK FLOOR EMBED SCHEDULE			
EMBED *	DESCRIPTION	DETAIL	REMARKS
1	PL 1" x 42" x 3'-6"	2/C-CC-Z-00046	RECESSED IN SUMP
2	PL 1" x 42" x 3'-6"	2/C-CC-Z-00046	RECESSED IN SUMP
3	PL 1" x 42" x 3'-6"	2/C-CC-Z-00046	
4	PL 1" x 42" x 3'-6"	2/C-CC-Z-00046	
5	PL 1" x 42" x 3'-6"	2/C-CC-Z-00046	RECESSED IN SUMP
6	PL 1" x 42" x 3'-6"	2/C-CC-Z-00046	
7	PL 1" x 42" x 3'-6"	2/C-CC-Z-00046	
8	PL 1" x 42" x 3'-6"	2/C-CC-Z-00046	RECESSED IN SUMP
9	PL 1/2" x 12" x 1'-0"	8/C-CC-Z-00046	THERMOCOUPLE
10	PL 1/2" x 12" x 1'-0"	8/C-CC-Z-00046	THERMOCOUPLE
11	PL 1/2" x 12" x 1'-0"	8/C-CC-Z-00046	THERMOCOUPLE
12	PL 1/2" x 12" x 1'-0"	8/C-CC-Z-00046	THERMOCOUPLE

KEY PLAN



NOTES

GENERAL NOTES:

1. FOR GENERAL STRUCTURAL NOTES SEE DRAWING C-C2-Z-00005.

BOTTOM SLAB:

1. PREPARE CONCRETE MUD MATS, GEOSYNTHETIC CLAY LINER, HDPE LINER, AND OTHER SUBGRADE MATERIALS AND CONSTRUCT LEAKAGE DETECTION SYSTEM AS REQUIRED BY SPECIFICATION, AND AS SHOWN ON DRAWINGS C-CY-Z-00005 THRU C-CY-Z-00007.
2. BOTTOM SLAB SHALL BEAR ON POLY SHEETING LAID OVER THE UPPER MUDMAT OF LEAKAGE DETECTION SYSTEM.
3. MINIMUM COMPACTION OF BACKFILL AROUND TANK BASE SHALL BE AS SPECIFIED. USE ONLY HAND HELD EQUIPMENT WITHIN 5'-0" OF THE WALL.
4. LOCATE CENTERLINE OF WATERSTOP AND LATERAL CABLES AT WALL BASE JOINT WITHIN TOLERANCES SHOWN ON DRAWINGS C-CC-Z-00042 AND C-CC-Z-00045.
5. CAST BASE SLAB IN 10 SEPARATE POURS AND WITH 7 DAYS MINIMUM TIME BETWEEN ADJACENT POURS, UNLESS OTHERWISE APPROVED BY STR.
6. FOR CONCRETE PLACEMENT SEQUENCE AT WATERSTOP AND CONSTRUCTION JOINTS, SEE DETAIL 4 C-CC-Z-00044.
7. SLAB REINFORCING SHALL BE ORIENTED PARALLEL AND PERPENDICULAR TO GRID LINES UNLESS OTHERWISE NOTED. LAP TOP REINFORCING ON INTERSECTING GRID LINES AND BOTTOM REINFORCING CENTERED BETWEEN GRID LINES.

CORE WALL:

1. SUPPORT VERTICAL WALL REINFORCING ON HARD PLASTIC OR STAINLESS STEEL PLATE SUPPORTS. VERTICALS ARE NOT TO REST DIRECTLY ON THE BOTTOM RUBBER PADS.
2. PRIOR TO CASTING CONCRETE IN WALL, WATER TEST THE VERTICAL BAR DUCT UNITS OR CLOSELY INSPECT THE UNITS FOR CRACKS. SEAL OR REPAIR ALL CRACKS OR DAMAGE PRIOR TO CASTING CONCRETE IN WALL.
3. PROVIDE POSITIVE FORM SUPPORTS AT BASE OF WALL TO PREVENT SPREADING OF FORMS, SO THAT CONCRETE WILL NOT PENETRATE BELOW TOP OF NEOPRENE PADS. FORM SUPPORTS SHALL NOT RESTRICT WALL BASE JOINT MOVEMENT AND CLEARANCES FOR REINFORCING BARS SHALL BE MAINTAINED PER DRAWING C-C2-Z-00005.
4. THE CONTRACTOR SHALL COMPLETE THE VERTICAL POST-TENSIONING PRIOR TO THE HORIZONTAL PRESTRESSING OF THE WALL. THE ROOF SLAB SECTIONS SHALL NOT BE POURED UNTIL THE GROUT FOR THE POST-TENSIONING BLOCKOUTS HAS BEEN PLACED.
6. CAST CORE WALLS IN 25 WALL SEGMENTS WITH 2 DAY MINIMUM BETWEEN ADJACENT POURS.

MISCELLANEOUS:

1. REFER TO SECTION 03300, CAST-IN-PLACE CONCRETE, FOR SPECIAL FORMING REQUIREMENTS FOR THE CONCRETE CORE WALL CONSTRUCTION.
2. PERMANENTLY MARK POST-TENSIONING BAR LOCATIONS ON VERTICAL SIDE OF OUTSIDE BASE SLAB BY SAW CUTTING MARK INTO CONCRETE 1/4" MAXIMUM DEEP.
3. PERFORM LIQUID TIGHTNESS TEST AFTER INSTALLATION OF THE INTERIOR LINER SYSTEM AND PRIOR TO MAKING HDPE LINER CONNECTION TO THE WALL FOUNDATION, AND BRINGING BACKFILL TO FINISH GRADE.
4. HORIZONTAL TOLERANCE FOR ALL EMBEDS SHALL BE (+/-) 1/2" AND EMBEDS SHALL BE LEVEL.
5. CENTER SHOTCRETE ENTRY PIPES BETWEEN LATERAL CABLING. 3

LEGEND

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 29838 Digital Signature MICHELE JANE MCHENRY

SOUTH CAROLINA CH2M HILL INC. NO. C00201 CERTIFICATE OF AUTHORIZATION

C CC Z 00039 LATEST REVISION 8

PROJ.	REV. NO.	REVISION	INITIAL AND DATE PRP'D	LEAD ENG	CHK'D/VERIF'D	APR'D	APR'D	APR'D
SDU6	0	ISSUED FOR CONSTRUCTION	ILT 11-06-12	MM 11-07-12	SR 11-07-12	SF 11-07-12	SM 11-09-12	TH 11-09-12
SDU6	1	ISSUED FOR CONSTRUCTION INCORPORATING SDDR NO. 12403	ILT 10-31-13	MM 10-31-13	SR 10-31-13	KW 11-01-13	SM 11-07-13	AT 11-07-13
SDU6	2	ISSUED FOR CONSTRUCTION INCORPORATING SDDR NO. 12574	ILT 03-13-14	MM 03-13-14	SR 03-13-14	KW 03-13-14	SM 03-24-14	TB 03-24-14
SDU6	3	ISSUED FOR CONSTRUCTION INCORPORATING SDDR NO. 12554	ILT 04-07-14	MM 04-07-14	SR 04-07-14	KW 04-07-14	SM 04-15-14	AT 04-15-14
SDU6	4	ISSUED FOR CONSTRUCTION INCORPORATING SDDRS NO. 12806, 12822, AND 12839	ILT 07-09-14	MM 07-09-14	SR 07-09-14	KW 07-09-14	SM 07-10-14	CF 07-10-14
SDU6	5	ISSUED FOR CONSTRUCTION INCORPORATING SDDR NO. 12858	ILT 07-28-14	MM 07-28-14	SR 07-28-14	KG 07-28-14	SM 07-29-14	CF 07-29-14
SDU6	6	ISSUED FOR CONSTRUCTION INCORPORATING MODIFIED WALL TOLERANCE	ILT 08-06-14	MM 08-06-14	SR 08-06-14	KG 08-06-14	SM 08-07-14	AT 08-07-14
SDU6	7	ISSUED FOR CONSTRUCTION INCORPORATING EMBED ANCHOR MODIFICATIONS	ILT 12-02-15	MM 12-02-15	SR 12-02-15	KW 12-02-15	SM 12-16-15	SM 12-16-15
SDU6	8	ISSUED FOR CONSTRUCTION INCORPORATING DCF NO. M-DCF-Z-00493	ILT 01-12-17	MM 01-12-17	SR 01-12-17	KW 01-12-17	1/18/17	1/18/17

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REFERENCE DRAWINGS

C-C2-Z-00005	GENERAL STRUCTURAL NOTES
C-CY-Z-00005	HDPE/GCL LEAKAGE DETECTION AND SETTLEMENT MONITORING PLAN
C-CY-Z-00006	LEAKAGE DETECTION SYSTEM SECTIONS AND DETAILS
C-CY-Z-00007	LEAKAGE DETECTION AND SETTLEMENT MONITORING SECTIONS AND DETAILS
C-CM-Z-00014	STAIR TOWER PLAN, SECTION & ELEVATIONS
C-CC-Z-00042	WALL AND COLUMN SECTION AND DETAILS
C-CC-Z-00044	CONCRETE SECTIONS AND DETAILS
C-CC-Z-00046	CONCRETE DETAILS

REFERENCE STANDARDS

UNITED STATES DEPARTMENT OF ENERGY

SAVANNAH RIVER SITE

BLDG. NO.	SITE CLEARANCE NO.	DESIGN AREA NO.	DESIGN GROUP
451-6Z	SC-6789	Z451	DS SDU TANK 6

TITLE

Z AREA
SALTSTONE DISPOSAL SITE
SDU6
TANK DESIGN
CONCRETE
FOUNDATION PLAN

SCALE	SRP DRAWING NO.	SHEET NO.	LATEST REVISION
3/64" = 1'-0"	N/A	1 OF 1	8

W.S. = { } - REF. FILES YES NO

LEVELS 1 2345678901 2345678901 2345678901 2345678901 2345678901 2345678901 23

PSC- 1 PLOT DATE 11-07-12

DRAWN BY (ORIG): IRINA L-T TIME

LAST CADD REV. BY: DATE:

Scale shown on this drawing is only applicable when plotted at 30"x42" (actual drawing size)

Type 5 rev. 09/10/07