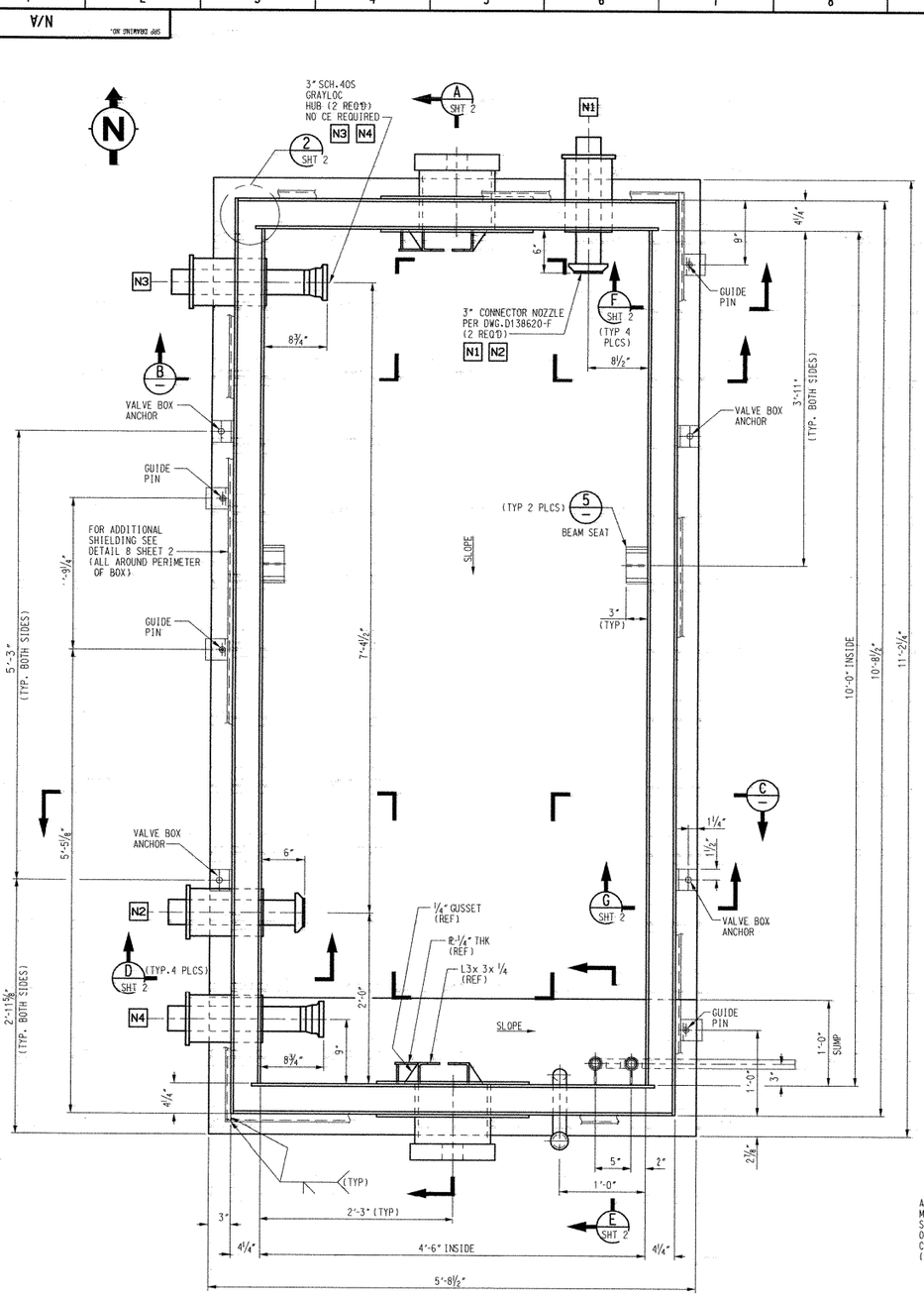
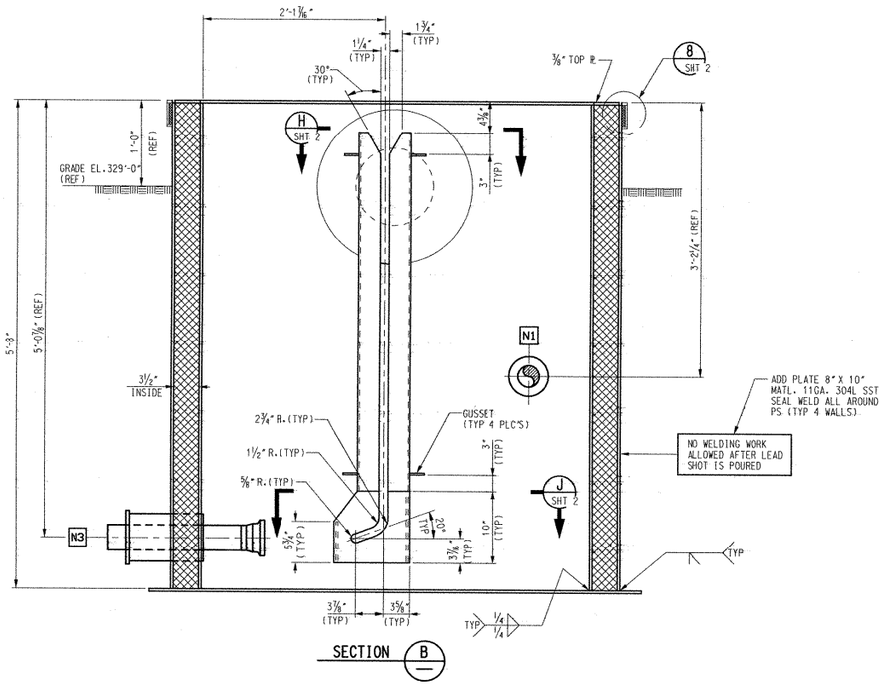


PLAN



SECTION B

SECTION C

NOTES

1. OUTER SHELL - PL 3/8" ASTM A36
   INNER SHELL - PL 3/8" ASTM A240 TYPE 304L
   TOP PLATE - PL 3/8" ASTM A240 TYPE 304L
   BOTTOM PLATE - PL 3/8" ASTM A240 TYPE 304L
   RODS, BARS, ANGLES:
   EXPOSED TO PROCESS - A276 TYPE 304L
   OTHERS - A36
   ALL NON-PRESSURE BOUNDARY PIPE AND FITTINGS PER THIS DRAWING PS202 FOR SST AND PS101 FOR CS.
2. ALL PRESSURE BOUNDARY PIPING MATERIAL, FABRICATION, ASSEMBLY, ERECTION, INSPECTION, EXAMINATION, AND TESTING SHALL BE IN ACCORDANCE WITH ASME CODE B31.3, SRS ENGINEERING STANDARD 15060 AND SRS ENGINEERING GUIDE 15060-G. SEE PIPING ENGINEERING AND PRESSURE TESTING INFORMATION LISTED IN PIPING DATA SHEETS M-ML-H-7221.
3. ALL PIPE WELDING AND INSPECTION SHALL BE IN ACCORDANCE WITH SRS ENGINEERING STANDARD 05057, WELDING CONTROL PROCEDURES MANUAL Y16.2 PROCEDURE 108, AND WELDING PROCEDURES GUIDE Y16.3 PROCEDURE 108-G. ALL STRUCTURAL WELDING AND INSPECTION SHALL BE IN ACCORDANCE WITH SRS ENGINEERING STANDARD 05057, WELDING CONTROL PROCEDURES MANUAL Y16.2 PROCEDURE 109, AND WELDING PROCEDURES GUIDE Y16.3 PROCEDURE 109-G.
4. BREAK ALL SHARP EDGES.
5. DYE-CHECK ALL INTERNAL PENETRATION WELDS THRU VALVE BOX, ALL INTERNAL BOTTOM CLOSURE WELDS, AND VERTICAL WELDS.
6. ROLLER SLOTS TO BE CHECKED FOR SMOOTH ROLLER TRAVEL BEFORE FINAL ASSEMBLY.
7. ALL STAINLESS STEEL MATERIALS USED FOR CORE PIPING SHALL BE CORROSION EVALUATED PER SRS ENGINEERING STANDARD 05951 EXCEPT MATERIAL USED FOR GRAYLOC CONNECTORS.
8. THE ABOVEGROUND ASTM A36 PORTION OF THE VALVE BOX SHALL BE COATED USING SRS ENGINEERING REQUIREMENTS DOCUMENT No. 09902-15-R REV 1. COATING SYSTEM B5.1.6B. ALL UNDERGROUND LEAK DETECTION PIPING AND THE BURIED PORTION OF THE VALVE BOX EXTERIOR INCLUDING THE ANCHOR BOLTS SHALL BE COATED USING SRS ENGINEERING GUIDE 09903-G COATING SYSTEM SRUG-50F. THE COATINGS SHALL BE APPLIED IN THE SHOP EXCEPT FOR THE ANCHOR BOLTS. TOUCH UP WORK ONLY SHALL BE PERFORMED IN THE FIELD.
9. A SPREADER BEAM SHALL BE USED FOR LIFTING THE VALVE BOX.
10. A LEAK TEST OF THE VALVE BOX SHALL BE PERFORMED BEFORE LEAD SHOT IS POURED INTO THE ANNULAR SPACE BETWEEN THE OUTER AND INNER SHELL. THE VALVE BOX SHALL BE FILLED WITH WATER TO A HEIGHT OF 2" BELOW THE TOP. THE TEST SHALL BE HELD FOR FOUR HOURS AND VISUALLY INSPECTED ON ALL SIDES TO CONFIRM NO LEAKAGE.
11. NO CRACKS OR CREVICES SHALL EXIST INSIDE THE VALVE BOX. PROVIDE SEAL WELDS AS REQUIRED.
12. ENDS OF NOZZLES N1, N2, N3 & N4, OUTSIDE BOX, TO BE PREPARED FOR WELDING TO SCH.40S PIPE. PS202C-CE.
13. STRUCTURAL SHAPES OF 304L ARE TO BE MADE OF PLATE AND CUT TO SUIT IF NOT AVAILABLE AS ROLLED SHAPES.
14. EACH PAIR OF HUBS MUST FIT W/ MATING VALVE & CONN. ASSEMBLY ON D198025.
15. LENGTH OF VALVE HANDLES (D198025-P) IS TO BE DETERMINED AT ASSEMBLY USING THIS DIMENSION.
16. LEAD SHOT IS REQUIRED FOR VALVE BOX WALLS AND SOLID LEAD FOR COVER. FOR LEAD SHOT, USE 430 LBS./CUBIC FT. (MIN.) MANUFACTURED BY TARACORP INDUSTRIES OR DESIGN AGENCY APPROVED EQUAL.
17. TOLERANCES ON VALVE BOX DIMENSIONS SHALL BE (±) 1/8".
18. TOLERANCES ON VALVE BOX DEGREES SHALL BE (±) 2°.
19. ADD PS 1" HEX COUNTERSUNK PLUGS AFTER WALLS ARE FILLED WITH LEAD SHOT. PLUG DIMENSIONS ARE PER ASME B16.14.
20. SEE M-QIP-H-00212 FOR FABRICATION QUALITY INSPECTIONS AND M-DCP-H-04011 FOR INSTALLATION QUALITY INSPECTION.
21. THE FUNCTIONAL CLASSIFICATION OF ALL COMPONENTS ON THIS DRAWING IS SC EXCEPT PS LEAD (UNLESS OTHERWISE NOTED).
22. FOR NOZZLE ELEVATIONS SEE DRAWINGS P-PJ-H-8412, P-PJ-H-8413 AND P-PJ-H-8414.

ENGINEERING DOC. CONTROL-SRS
00815149

C CM H 7026 LATEST REVISION 0

PROJ.	REV. NO.	DATE	REVISION	PRP'D	LEAD ENG	CHK'D	APV'D	APV'D	APV'D
D-MT-H-00036	0	1/27/05	ISSUED FOR AS-BUILT TRC-MT-2005-00188	DN				EH	

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REFERENCE DRAWINGS

C-CM-H-7028	VALVE BOX COVER - PLAN AND DETAILS
C-CM-H-7029	VALVE BOX STAY ROD LOCATIONS
C-CC-H-8265	CONC. FOUNDATION PLANS & SECTIONS
M-ML-H-7221	PIPING DATA SHEETS
M-QIP-H-00212	QUALITY INSPECTION PLAN
P-PC-H-8264	VALVE BOX ASSEMBLY
T-CLC-H-00714	SEISMIC QUALIFICATION
P-PJ-H-8412	VALVE BOX ASSEMBLY AND DETAILS
P-PJ-H-8413	VALVE BOX ASSEMBLY AND DETAILS
P-PJ-H-8414	VALVE BOX ASSEMBLY AND DETAILS

REFERENCE STANDARDS

05057	09903-G
05060	
15060	
15060-G	
05951	

UNITED STATES DEPARTMENT OF ENERGY
SAVANNAH RIVER SITE

BLDG. NO.	SITE CLEARANCE NO.	DESIGN AREA NO.	DESIGN GROUP
241-96H	N/A	N/A	PD&CS

TITLE

CLOSURE BUSINESS UNIT
SALT PROCESSING PROGRAM
ACTINIDE REMOVAL PROCESS

WASTE TRANSFER SYSTEM
241-96H VALVE BOX PLAN AND SECTIONS
STRUCTURAL

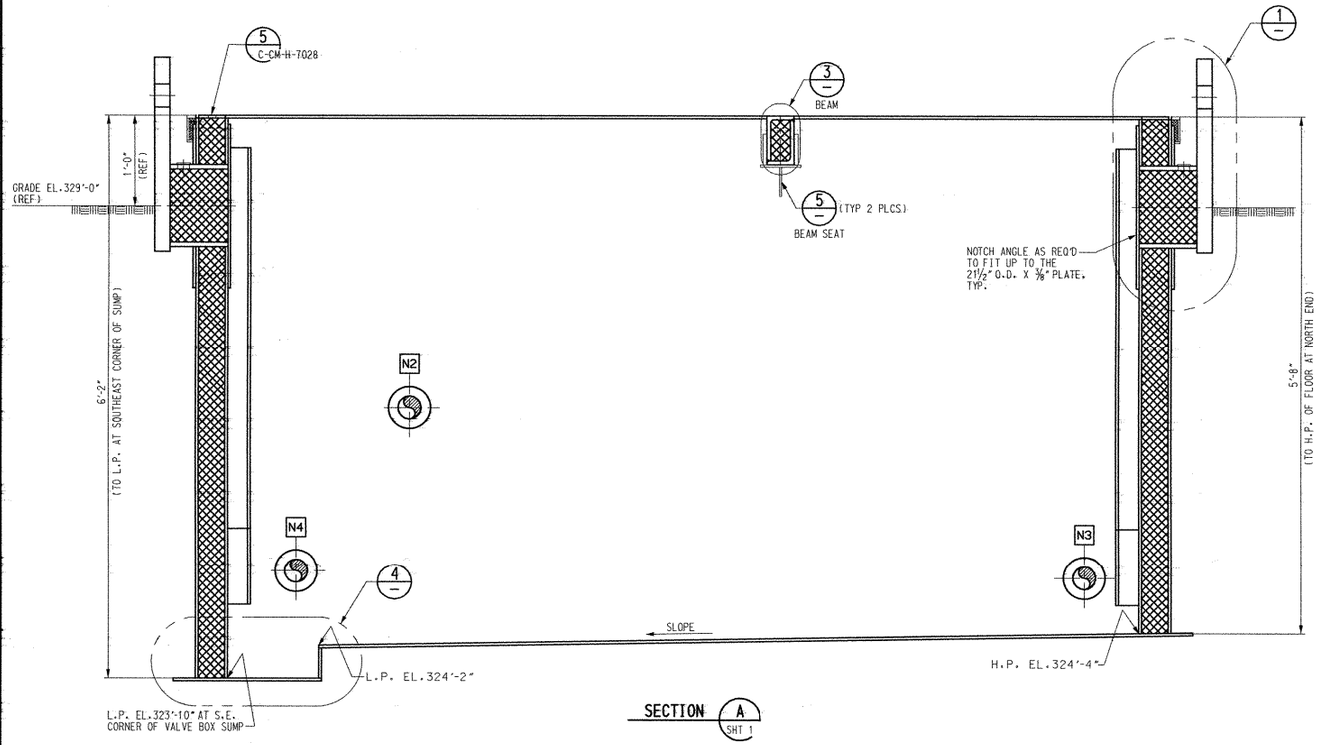
SCALE	SRP DRAWING NO.	SHEET NO.	LATEST REVISION
1 1/2"=1'-0"	N/A	1 OF 2	0

W.S. # ( ) REF FILES YES NO
LEVELS 1234567890123456789012345678901234567890123456789012345678901234567890123
PSC= PLOT DATE
DRAWN BY (ORIG): R.ELLIS LAST CADD REV. BY: SD SAMUEL DATE: 1/11/05 TIME
Scale shown on this drawing is only applicable when plotted at 30"x42" (actual drawing size)

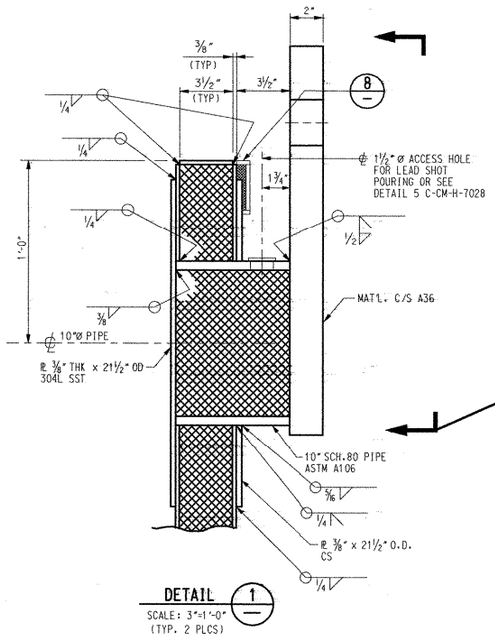
...\CSA As-Builts\ccmh7026.dgn 04/26/2005 01:41:55 PM

N/A

SEE DRAWING NO.



SECTION A SHT 1



DETAIL 1
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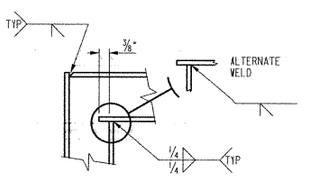
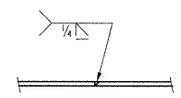
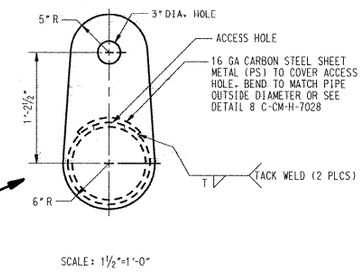
(TYP. 2 PLCS)



DETAIL 2
SCALE: NONE
SHT 1



TOP PLATE SPLICE DETAIL (TYP)



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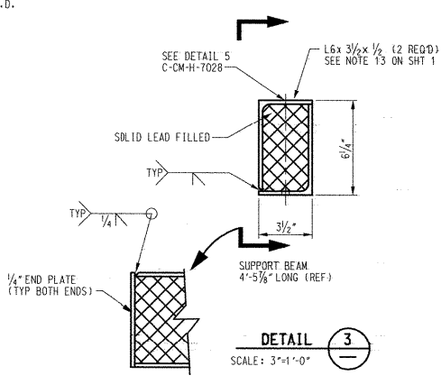

DETAIL 3
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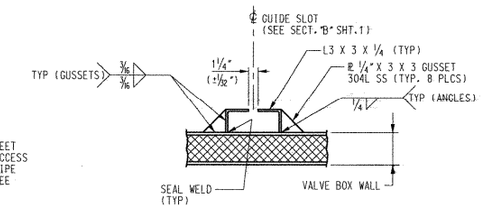
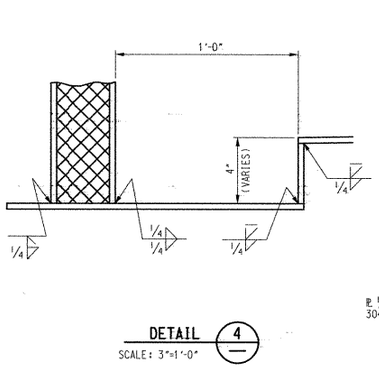


SECTION H
SCALE: 1½"=1'-0"
SHT 1

PLAN AT JUMPER GUIDE (TYP)



DETAIL 4
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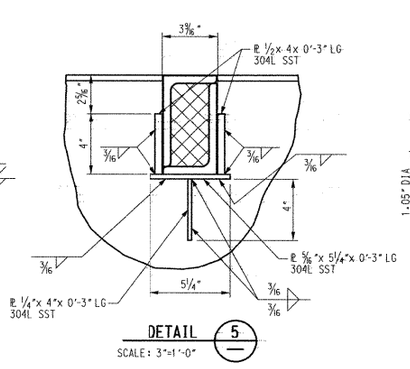

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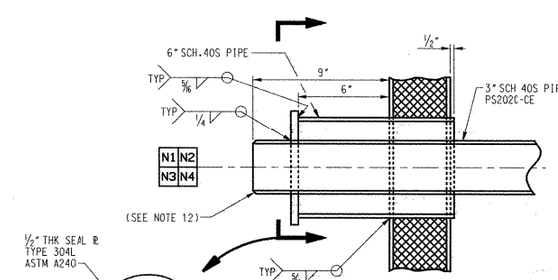
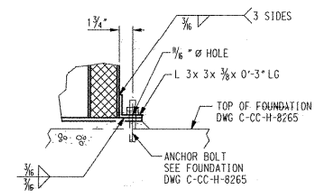
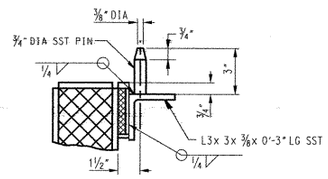


SECTION D
SCALE: 3"=1'-0"
(TYP 4 PLACES)
SHT 1



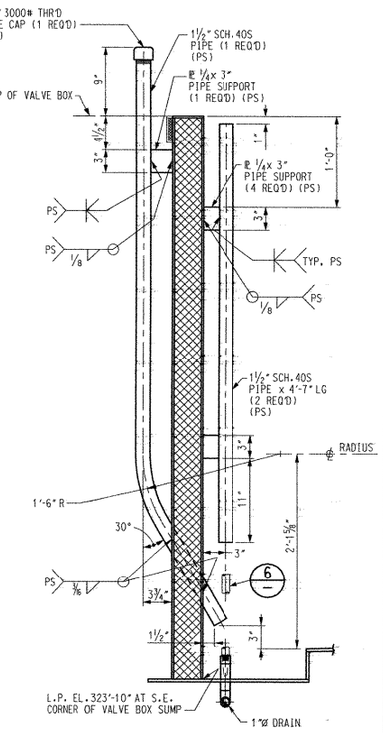
SECTION G
SCALE: 1½"=1'-0"
SHT 1

VALVE BOX ANCHOR DESIGN
(TYP.4 PLACES)



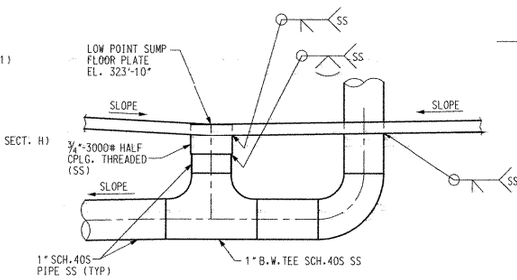
SECTION F
SCALE: 3"=1'-0"
SHT 1

VALVE BOX COVER GUIDE PIN



SECTION E
SCALE: NONE
SHT 1

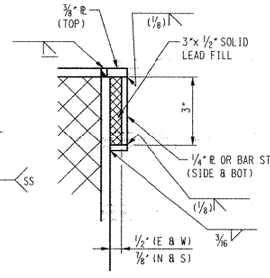
CONDUCTIVITY PROBE PIPING
(PS FUNCTIONAL CLASSIFICATION)



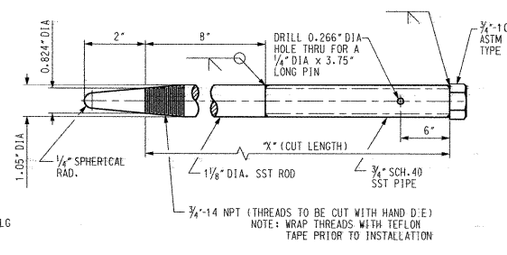
SECTION J
SCALE: 1½"=1'-0"
SHT 1

PLAN AT JUMPER GUIDE (TYP)

DETAIL 7
SCALE: 6"=1'-0"
SHT 1



DETAIL 8
SCALE: NTS
SHT 1



DETAIL 6
SCALE: NONE
MATL: SEE NOTE 1
QTY: 2 REQ'D

DRAIN PLUG & OVERFLOW PLUG
(PS FUNCTIONAL CLASSIFICATION)

CUT LENGTH		
	QTY	"X"
DRAIN PLUG	1	6'-9"
OVERFLOW PLUG	1	6'-6"

UNITED STATES DEPARTMENT OF ENERGY

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TITLE
CLOSURE BUSINESS UNIT
SALT PROCESSING PROGRAM
ACTINIDE REMOVAL PROCESS

WASTE TRANSFER SYSTEM
241-96H VALVE BOX SECTIONS AND DETAILS
STRUCTURAL

C CM H 7026

SRP DRAWING NO.	SHEET NO.	DRAWING REV.
N/A	2 OF 2	0

W.S. # [ ] . REF FILES YES NO

LEVELS 1111111111222222222333333333444444444555555556666 PSC- 12345678901234567890123456789012345678901234567890123 PLOT DATE

DRAWN BY (ORIG): R.ELLIS TIME

LAST CADD REV. BY: S.MCLEMORE DATE: 26APR05

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

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